

**Table HC10.13 Average square footage of West homes, 2020**

	Number of housing units (million)	Average square footage per housing unit		Average square footage per household member			
	Total West <sup>a</sup>	Total <sup>b</sup>	Heated <sup>c</sup>	Cooled <sup>c</sup>	Total <sup>b</sup>	Heated	Cooled
<b>All homes</b>	27.72	1,650	1,453	1,080	639	563	419
<b>Census division</b>							
Mountain	9.22	1,848	1,736	1,442	736	691	574
Mountain North	4.62	2,015	1,938	1,441	787	756	563
Mountain South	4.60	1,681	1,533	1,442	683	623	586
Pacific	18.51	1,551	1,313	899	593	502	344
<b>Census urban/rural classification<sup>d</sup></b>							
Urban	25.24	1,597	1,395	1,056	618	540	409
Urbanized area	22.74	1,595	1,391	1,074	613	535	413
Urban cluster	2.50	1,617	1,439	892	665	592	367
Rural	2.48	2,185	2,042	1,322	864	807	523
<b>Climate region<sup>e</sup></b>							
Very cold/Cold	6.35	1,947	1,862	1,295	784	749	521
Mixed-humid	N	N	N	N	N	N	N
Mixed-dry/Hot-dry	14.03	1,544	1,326	1,199	582	500	452
Hot-humid	0.47	1,452	53	462	486	18	155
Marine	6.87	1,605	1,432	680	643	574	273
<b>Housing unit type</b>							
Single-family detached	16.97	2,074	1,863	1,410	739	664	502
Single-family attached	1.69	1,350	1,125	837	551	459	342
Apartments in buildings with 2–4 units	1.89	881	698	397	346	274	156
Apartments in buildings with 5 or more units	5.70	852	677	475	421	334	235
Mobile homes	1.47	1,173	1,086	766	510	472	333
<b>Year of construction</b>							
Before 1950	3.27	1,520	1,232	590	662	537	257
1950 to 1959	2.73	1,530	1,306	853	592	505	330
1960 to 1969	2.95	1,441	1,221	828	570	483	328
1970 to 1979	4.71	1,523	1,318	921	611	529	369
1980 to 1989	3.95	1,571	1,416	1,064	603	543	409
1990 to 1999	4.05	1,790	1,634	1,296	666	608	482
2000 to 2009	3.89	1,962	1,782	1,602	713	647	582
2010 to 2015	1.16	1,892	1,703	1,504	671	604	533
2016 to 2020	1.02	1,857	1,744	1,446	723	680	563
<b>Number of stories</b>							
1 story	11.55	1,792	1,564	1,207	683	596	460
2 stories	6.02	2,355	2,162	1,636	777	713	540
3 or more stories	0.62	2,589	2,451	1,483	846	800	484
Split-level	0.47	2,130	1,961	1,347	764	703	483
Not asked (apartments and mobile homes)	9.06	911	748	506	418	343	232
<b>Fuels used for any use (more than one may apply)</b>							
Electricity	27.72	1,650	1,453	1,080	639	563	419
Natural gas	20.53	1,731	1,544	1,190	654	583	449
Propane <sup>f</sup>	1.66	1,870	1,710	1,149	772	705	474
Wood	2.75	1,976	1,842	1,133	736	686	422
Fuel oil or kerosene	0.15	1,665	1,424	224	551	472	74

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<b>All homes</b>	27.72	1,650	1,453	1,080	639	563	419
<b>Distributed solar generation</b>							
Yes	1.97	2,293	2,047	1,788	772	689	602
No	18.16	1,910	1,711	1,264	704	630	465
Not asked (apartments)	7.59	860	682	456	399	317	211
<b>Main space heating fuel</b>							
Natural gas	16.13	1,866	1,769	1,313	706	670	497
Electricity	7.62	1,298	1,187	798	539	493	331
Fuel oil or kerosene	0.11	1,705	1,613	169	644	610	64
Propane	0.72	2,074	1,966	1,283	840	796	519
Wood	0.67	1,783	1,648	695	731	676	285
Some other fuel <sup>b</sup>	N	N	N	N	N	N	N
Does not use heating equipment	2.47	1,164	0	511	421	0	185
<b>Air-conditioning equipment</b>							
Uses air-conditioning equipment	20.65	1,722	1,546	1,450	650	584	548
Does not use air-conditioning equipment	7.07	1,440	1,183	0	604	496	0
<b>Fuel used by main water heater</b>							
Natural gas	17.63	1,764	1,573	1,223	658	586	456
Electricity	8.94	1,395	1,206	799	588	508	337
Propane	0.92	1,978	1,777	1,194	811	729	490
Fuel oil or kerosene	0.07	1,313	1,058	Q	367	Q	103
Some other fuel <sup>b</sup>	0.17	1,565	428	710	504	138	229
<b>Indoor light bulbs used at least 4 hours a day</b>							
0 to 2	11.33	1,455	1,220	907	616	517	384
3 to 5	6.59	1,576	1,393	1,020	629	556	407
6 to 9	5.11	1,711	1,541	1,148	645	581	433
10 to 19	3.67	2,070	1,925	1,448	683	636	478
20 or more	1.03	2,459	2,281	1,713	707	656	493
<b>Total number of rooms (excluding bathrooms)</b>							
1 or 2	1.50	595	482	342	354	287	204
3	2.18	771	581	355	417	315	192
4	4.24	990	776	539	438	343	238
5	4.24	1,329	1,146	801	501	432	302
6	4.63	1,600	1,402	1,022	615	539	393
7	4.21	1,912	1,703	1,238	713	635	462
8	2.78	2,244	2,046	1,630	778	709	565
9 or more	3.95	2,948	2,737	2,151	909	844	663
<b>Number of bedrooms</b>							
0	0.62	536	449	319	292	244	173
1	3.57	738	575	344	476	371	222
2	7.18	1,177	969	654	500	412	278
3	9.72	1,766	1,580	1,161	665	595	437
4	4.96	2,378	2,167	1,709	748	682	537
5 or more	1.67	3,209	2,933	2,429	843	771	638

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	Total West <sup>a</sup>	Total <sup>b</sup>	Heated <sup>c</sup>	Cooled <sup>c</sup>	Total <sup>b</sup>	Heated	Cooled
<b>All homes</b>	27.72	1,650	1,453	1,080	639	563	419
<b>Basement</b>							
Yes	4.00	2,641	2,317	1,592	939	824	566
Finished basement	2.99	2,675	2,466	1,699	930	857	590
Unfinished basement	1.01	2,538	1,874	1,276	971	717	488
No	14.66	1,836	1,654	1,295	664	598	468
Not asked (apartments and mobile homes)	9.06	911	748	506	418	343	232
<b>Adequacy of insulation</b>							
Well insulated	7.20	1,981	1,821	1,429	775	712	559
Adequately insulated	13.84	1,645	1,463	1,118	639	568	434
Poorly insulated	5.50	1,350	1,126	694	516	431	266
No insulation	1.18	1,078	626	300	412	239	115
<b>Type of glass in windows</b>							
Single-pane glass	9.51	1,263	1,011	715	513	411	290
Double-pane glass	17.76	1,841	1,673	1,262	697	634	478
Triple-pane glass	0.45	2,287	2,146	1,601	843	791	590
<b>Number of household members</b>							
1 member	7.23	1,245	1,076	717	1,245	1,076	717
2 members	9.31	1,747	1,574	1,177	874	787	588
3 members	4.12	1,701	1,520	1,120	567	507	373
4 members	4.08	1,908	1,651	1,271	477	413	318
5 members	1.71	1,842	1,646	1,317	368	329	263
6 or more members	1.28	1,978	1,606	1,366	300	243	207
<b>2020 annual household income</b>							
Less than \$5,000	0.90	1,044	902	577	417	360	230
\$5,000 to \$9,999	0.72	978	773	499	397	314	202
\$10,000 to \$19,999	2.03	1,159	952	587	564	464	286
\$20,000 to \$39,999	5.26	1,352	1,145	792	573	486	336
\$40,000 to \$59,999	4.32	1,539	1,323	933	632	543	383
\$60,000 to \$99,999	6.30	1,679	1,489	1,127	646	573	433
\$100,000 to \$149,999	4.06	1,904	1,734	1,382	674	614	489
\$150,000 or more	4.13	2,340	2,136	1,684	771	704	555

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	Number of housing units (million)	Average square footage per housing unit			Average square footage per household member		
	Total West <sup>a</sup>	Total <sup>b</sup>	Heated <sup>c</sup>	Cooled <sup>c</sup>	Total <sup>b</sup>	Heated	Cooled
<b>All homes</b>	27.72	1,650	1,453	1,080	639	563	419
<b>Ownership of housing unit<sup>h</sup></b>							
Owned	17.40	2,006	1,813	1,378	762	689	523
Rented	10.33	1,050	848	578	421	340	232

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the *2020 Residential Energy Consumption Survey*

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for the definitions of terms used in these tables.

<sup>a</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>b</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>c</sup> When calculating average heated and cooled square footage, all housing units are considered, including those that are not heated or cooled.

<sup>d</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>e</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>f</sup> Households that use propane only for outdoor grilling are excluded from the RECS estimate of households using propane.

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

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

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households were in the reporting sample.

N = No households in reporting sample.

**Relative standard errors (RSEs) for Table HC10.13 Average square footage of West homes, 2020**

	RSEs for	RSEs for average square footage			RSEs for average square footage		
	number of housing units	per housing unit		per household member			
	Total West <sup>a</sup>	Total <sup>b</sup>	Heated <sup>c</sup>	Cooled <sup>c</sup>	Total <sup>b</sup>	Heated	Cooled
<b>All homes</b>	0.00	0.59	0.72	1.25	1.04	1.15	1.45
<b>Census division</b>							
Mountain	0.00	1.06	1.13	1.61	1.86	1.89	2.02
Mountain North	0.00	1.63	1.66	2.54	2.74	2.77	2.87
Mountain South	0.00	1.34	1.56	1.68	2.25	2.34	2.37
Pacific	0.00	0.95	1.15	1.94	1.44	1.59	2.04
<b>Census urban/rural classification<sup>d</sup></b>							
Urban	0.58	0.70	0.88	1.33	1.18	1.31	1.53
Urbanized area	0.81	0.76	1.06	1.36	1.19	1.39	1.60
Urban cluster	5.53	2.83	3.11	5.95	3.40	3.70	5.08
Rural	5.87	2.61	2.54	4.27	3.90	3.73	5.19
<b>Climate region<sup>e</sup></b>							
Very cold/Cold	1.37	1.40	1.38	2.31	2.31	2.33	2.68
Mixed-humid	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mixed-dry/Hot-dry	1.21	1.18	1.51	1.92	1.83	2.05	2.24
Hot-humid	0.00	3.65	26.89	8.30	3.90	26.79	8.64
Marine	2.39	1.83	1.90	4.73	2.45	2.60	4.94
<b>Housing unit type</b>							
Single-family detached	0.00	0.72	0.76	1.40	1.30	1.37	1.78
Single-family attached	0.00	2.39	3.33	5.23	3.59	3.95	5.76
Apartments in buildings with 2–4 units	0.00	2.72	5.30	8.19	5.61	7.16	9.04
Apartments in buildings with 5 or more units	0.00	1.33	2.70	3.66	2.76	3.68	4.44
Mobile homes	0.00	2.70	3.72	6.34	5.24	6.16	7.01
<b>Year of construction</b>							
Before 1950	0.00	3.59	3.88	7.34	4.34	4.89	7.58
1950 to 1959	0.00	2.83	3.84	5.50	4.08	4.63	6.10
1960 to 1969	0.00	3.40	3.88	6.09	4.08	5.05	6.90
1970 to 1979	0.00	2.29	2.38	4.01	3.11	3.44	4.36
1980 to 1989	0.00	2.72	3.24	4.11	4.25	4.68	5.23
1990 to 1999	0.00	2.19	2.40	3.20	3.39	3.59	3.95
2000 to 2009	0.00	2.81	3.27	3.38	2.99	3.33	3.46
2010 to 2015	5.40	3.73	4.89	5.30	3.73	4.58	4.37
2016 to 2020	6.14	4.89	5.37	7.15	5.75	5.71	6.85
<b>Number of stories</b>							
1 story	1.27	1.01	1.11	1.52	1.72	1.91	2.20
2 stories	2.28	1.47	1.37	2.38	2.10	2.05	2.74
3 or more stories	9.25	5.27	5.51	10.37	6.63	6.59	10.19
Split-level	10.47	4.52	4.77	8.39	7.43	7.68	11.15
Not asked (apartments and mobile homes)	0.00	0.97	2.09	3.20	2.43	3.05	3.83
<b>Fuels used for any use (more than one may apply)</b>							
Electricity	0.00	0.59	0.72	1.25	1.04	1.15	1.45
Natural gas	0.89	0.79	0.95	1.55	1.20	1.37	1.78
Propane <sup>f</sup>	6.86	3.56	4.16	6.53	5.11	5.80	7.60
Wood	4.75	2.51	2.15	4.48	3.01	3.23	5.66
Fuel oil or kerosene	15.22	10.31	10.71	44.13	21.03	26.38	35.24

Relative standard errors (RSEs) for Table HC10.13 Average square footage of West homes, 2020

	RSEs for number of housing units	RSEs for average square footage per housing unit			RSEs for average square footage per household member		
	Total West <sup>a</sup>	Total <sup>b</sup>	Heated <sup>c</sup>	Cooled <sup>c</sup>	Total <sup>b</sup>	Heated	Cooled
<b>All homes</b>	0.00	0.59	0.72	1.25	1.04	1.15	1.45
<b>Distributed solar generation</b>							
Yes	5.19	2.74	3.34	4.55	4.37	4.64	5.46
No	0.56	0.71	0.84	1.33	1.20	1.33	1.72
Not asked (apartments)	0.00	1.14	2.59	3.66	2.74	3.56	4.53
<b>Main space heating fuel</b>							
Natural gas	1.30	0.85	0.81	1.51	1.33	1.32	1.90
Electricity	2.75	1.86	1.95	3.17	2.49	2.53	3.37
Fuel oil or kerosene	17.12	10.67	8.85	44.89	16.55	15.01	43.43
Propane	10.97	5.04	4.86	7.88	7.58	7.13	9.56
Wood	12.40	5.21	4.85	12.83	7.13	6.84	13.09
Some other fuel <sup>b</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Does not use heating equipment	6.32	3.11	0.00	8.08	4.99	0.00	8.95
<b>Air-conditioning equipment</b>							
Uses air-conditioning equipment	1.02	0.80	0.87	0.84	1.18	1.23	1.24
Does not use air-conditioning equipment	2.97	1.71	2.30	0.00	2.95	3.31	0.00
<b>Fuel used by main water heater</b>							
Natural gas	1.13	0.88	1.04	1.73	1.36	1.48	2.01
Electricity	2.17	1.57	2.18	3.06	2.24	2.69	3.33
Propane	8.94	4.66	5.47	8.53	7.77	8.81	10.87
Fuel oil or kerosene	26.07	15.71	19.84	54.23	33.01	56.43	35.98
Some other fuel <sup>b</sup>	17.76	10.11	34.80	18.76	11.60	39.50	22.88
<b>Indoor light bulbs used at least 4 hours a day</b>							
0 to 2	2.21	1.48	1.91	2.33	2.35	2.73	2.86
3 to 5	2.93	1.86	2.30	3.44	2.88	3.34	4.03
6 to 9	3.40	1.72	2.10	2.70	2.43	2.71	3.28
10 to 19	4.87	2.56	2.57	3.56	2.80	2.87	3.63
20 or more	7.30	4.79	4.68	7.68	5.45	5.33	7.82
<b>Total number of rooms (excluding bathrooms)</b>							
1 or 2	8.27	2.45	5.15	6.88	8.46	10.57	10.97
3	6.01	2.29	5.43	7.06	5.48	7.50	7.74
4	4.04	1.70	3.48	4.64	3.88	5.34	5.55
5	3.76	1.93	2.09	3.40	2.88	3.26	4.47
6	4.02	1.82	1.97	3.51	2.62	2.74	3.90
7	3.80	1.51	1.84	2.99	3.32	3.71	4.26
8	5.21	1.88	2.04	2.90	3.01	3.12	3.91
9 or more	3.11	1.86	1.73	3.05	2.82	2.66	3.53
<b>Number of bedrooms</b>							
0	14.15	5.73	9.71	9.79	13.60	15.87	16.53
1	4.01	2.09	3.65	4.52	4.34	5.14	5.40
2	2.71	1.43	2.23	3.96	2.82	3.58	4.66
3	2.31	1.06	1.26	1.86	1.96	2.17	2.56
4	3.77	1.72	1.76	2.99	2.59	2.67	3.78
5 or more	4.67	2.86	3.69	4.78	4.54	5.26	6.14

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<b>All homes</b>	0.00	0.59	0.72	1.25	1.04	1.15	1.45
<b>Basement</b>							
Yes	3.00	1.58	1.78	3.24	2.52	2.63	3.73
Finished basement	3.41	1.90	1.96	3.78	2.89	3.03	4.30
Unfinished basement	7.98	4.09	5.46	8.41	5.68	6.41	8.87
No	0.82	0.90	1.02	1.57	1.53	1.65	2.13
Not asked (apartments and mobile homes)	0.00	0.97	2.09	3.20	2.43	3.05	3.83
<b>Adequacy of insulation</b>							
Well insulated	2.56	1.56	1.56	2.29	2.07	2.28	2.77
Adequately insulated	1.53	1.16	1.30	1.89	1.48	1.65	2.07
Poorly insulated	3.65	2.32	2.84	4.36	3.08	3.49	4.71
No insulation	9.50	4.11	7.74	9.36	6.29	9.93	11.87
<b>Type of glass in windows</b>							
Single-pane glass	2.74	1.34	2.05	3.16	2.00	2.74	3.43
Double-pane glass	1.50	0.94	0.90	1.57	1.31	1.35	1.85
Triple-pane glass	14.15	7.69	8.53	11.74	10.16	10.95	12.31
<b>Number of household members</b>							
1 member	3.10	1.75	2.39	3.49	1.75	2.39	3.49
2 members	2.87	1.47	1.53	2.61	1.47	1.53	2.61
3 members	5.32	1.91	2.81	3.28	1.91	2.81	3.28
4 members	4.26	2.80	3.10	4.18	2.80	3.10	4.18
5 members	6.30	3.58	4.15	5.23	3.58	4.15	5.23
6 or more members	8.85	4.61	6.44	6.94	4.44	6.30	6.86
<b>2020 annual household income</b>							
Less than \$5,000	9.77	5.26	7.32	9.97	7.74	9.67	12.15
\$5,000 to \$9,999	14.97	7.15	9.23	15.96	13.15	13.58	16.99
\$10,000 to \$19,999	6.11	4.22	4.97	7.34	5.10	6.87	7.79
\$20,000 to \$39,999	3.64	2.03	2.31	4.18	3.26	3.81	5.09
\$40,000 to \$59,999	4.01	2.46	2.81	4.17	2.81	3.35	4.39
\$60,000 to \$99,999	2.99	1.53	1.99	2.70	2.19	2.57	2.95
\$100,000 to \$149,999	4.08	2.44	2.80	3.69	3.15	3.39	4.43
\$150,000 or more	4.34	1.93	2.11	3.27	2.37	2.34	3.10

**Relative standard errors (RSEs) for Table HC10.13 Average square footage of West homes, 2020**

	RSES for number of housing units	RSEs for average square footage per housing unit			RSEs for average square footage per household member		
	Total West <sup>a</sup>	Total <sup>b</sup>	Heated <sup>c</sup>	Cooled <sup>c</sup>	Total <sup>b</sup>	Heated	Cooled
<b>All homes</b>	0.00	0.59	0.72	1.25	1.04	1.15	1.45
<b>Ownership of housing unit<sup>h</sup></b>							
Owned	0.92	0.87	0.92	1.54	1.25	1.36	1.84
Rented	1.55	1.76	2.68	3.89	2.31	3.08	4.00

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the *2020 Residential Energy Consumption Survey*

Notes: See RECS Terminology for the definitions of terms used in these tables.

<sup>a</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>b</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>c</sup> When calculating average heated and cooled square footage, all housing units are considered, including those that are not heated or cooled.

<sup>d</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>e</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>f</sup> Households that use propane only for outdoor grilling are excluded from the RECS estimate of households using propane.

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

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