

Table HC10.14 Average square footage of single-family homes, 2020

	Number of housing units (million)	Average square footage per housing unit			Average square footage per household member		
	Total single-family ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	84.52	2,207	1,951	1,638	843	745	626
Census region and division							
Northeast	13.18	2,414	2,052	1,322	910	774	498
New England	3.64	2,516	2,061	1,082	961	788	414
Middle Atlantic	9.54	2,375	2,049	1,413	891	768	530
Midwest	19.92	2,370	2,183	1,858	936	862	733
East North Central	13.50	2,377	2,178	1,831	940	862	724
West North Central	6.42	2,356	2,194	1,914	926	863	752
South	32.76	2,138	1,857	1,791	833	724	698
South Atlantic	17.17	2,169	1,862	1,833	848	728	717
East South Central	5.36	2,178	1,917	1,762	900	792	728
West South Central	10.23	2,063	1,818	1,735	776	683	652
West	18.66	2,009	1,796	1,358	724	647	490
Mountain	6.56	2,208	2,080	1,744	825	777	652
Mountain North	3.39	2,394	2,297	1,750	865	830	633
Mountain South	3.17	2,010	1,848	1,738	779	716	673
Pacific	12.10	1,901	1,642	1,149	672	581	406
Census urban/rural classification^d							
Urban	65.84	2,147	1,893	1,628	803	708	609
Urbanized area	57.56	2,172	1,915	1,667	803	708	616
Urban cluster	8.29	1,970	1,742	1,355	801	708	551
Rural	18.68	2,419	2,156	1,672	1,001	892	692
Climate region^e							
Very cold/Cold	30.47	2,374	2,139	1,589	930	838	622
Mixed-humid	24.69	2,290	2,051	1,833	885	792	708
Mixed-dry/Hot-dry	9.98	1,895	1,667	1,512	675	594	539
Hot-humid	14.89	2,010	1,645	1,723	760	622	652
Marine	4.48	1,966	1,772	892	721	650	327
Year of construction							
Before 1950	14.72	2,076	1,730	1,121	848	707	458
1950 to 1959	10.30	1,879	1,644	1,265	764	668	514
1960 to 1969	8.86	1,970	1,732	1,422	772	678	557
1970 to 1979	11.44	2,083	1,858	1,535	809	722	596
1980 to 1989	9.94	2,175	1,946	1,683	847	758	655
1990 to 1999	11.74	2,417	2,188	1,997	888	804	734
2000 to 2009	11.29	2,587	2,325	2,182	903	811	761
2010 to 2015	3.42	2,604	2,383	2,261	865	792	751
2016 to 2020	2.82	2,578	2,301	2,205	937	836	801
Number of stories							
1 story	47.15	1,943	1,686	1,441	799	693	592
2 stories	32.47	2,565	2,298	1,907	899	805	668
3 or more stories	2.61	2,587	2,384	1,837	889	819	631
Split-level	2.28	2,135	1,984	1,648	772	718	596
Not asked (apartments and mobile homes)	N	N	N	N	N	N	N

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All homes	84.52	2,207	1,951	1,638	843	745	626
Fuels used for any use (more than one may apply)							
Electricity	84.52	2,207	1,951	1,638	843	745	626
Natural gas	55.12	2,247	2,026	1,718	845	762	646
Propane ^f	9.07	2,499	2,199	1,670	1,015	893	678
Wood	9.85	2,405	2,180	1,583	900	816	592
Fuel oil or kerosene	4.41	2,454	2,050	1,106	973	813	438
Distributed solar generation							
Yes	3.55	2,338	2,049	1,753	808	708	606
No	80.97	2,201	1,947	1,633	845	747	627
Not asked (apartments)	N	N	N	N	N	N	N
Main space heating fuel							
Natural gas	49.21	2,262	2,075	1,743	859	788	662
Electricity	22.45	2,053	1,850	1,624	788	710	623
Fuel oil or kerosene	3.86	2,490	2,071	1,109	995	828	443
Propane	4.33	2,486	2,202	1,610	1,028	910	665
Wood	1.98	2,106	1,842	934	825	722	366
Some other fuel ^g	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	2.65	1,686	0	1,169	562	0	390
Air-conditioning equipment							
Uses air-conditioning equipment	76.32	2,241	1,991	1,814	855	759	692
Does not use air-conditioning equipment	8.20	1,892	1,581	0	733	613	0
Fuel used by main water heater							
Natural gas	44.55	2,262	2,042	1,737	844	762	648
Electricity	34.30	2,075	1,792	1,536	813	702	602
Propane	3.46	2,613	2,286	1,729	1,050	918	695
Fuel oil or kerosene	1.94	2,570	2,143	1,068	1,025	855	426
Some other fuel ^g	0.28	2,154	1,459	1,169	601	407	326
Indoor light bulbs used at least 4 hours a day							
0 to 2	29.85	2,015	1,744	1,438	853	738	609
3 to 5	20.54	2,098	1,845	1,533	837	736	612
6 to 9	16.47	2,250	1,997	1,669	828	735	615
10 to 19	13.45	2,525	2,290	1,962	844	765	656
20 or more	4.22	2,913	2,672	2,407	855	785	707
Total number of rooms (excluding bathrooms)							
1 or 2	0.15	724	561	315	477	369	208
3	0.95	1,103	920	549	657	548	327
4	4.75	1,382	1,132	830	660	541	396
5	11.58	1,591	1,354	1,063	660	562	441
6	17.53	1,829	1,571	1,280	741	636	518
7	17.34	2,065	1,823	1,516	800	706	587
8	12.98	2,414	2,160	1,838	881	789	671
9 or more	19.24	3,179	2,895	2,548	1,055	961	846

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	Total single-family ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	84.52	2,207	1,951	1,638	843	745	626
Number of bedrooms							
0	0.14	1,804	1,233	772	826	565	354
1	1.74	1,095	882	524	683	550	327
2	13.75	1,599	1,366	1,020	801	684	511
3	41.80	2,012	1,776	1,474	799	705	585
4	21.19	2,697	2,397	2,107	890	791	695
5 or more	5.90	3,581	3,283	2,899	998	914	808
Basement							
Yes	36.83	2,620	2,292	1,799	984	861	676
Finished basement	21.71	2,661	2,470	2,024	958	889	728
Unfinished basement	15.12	2,562	2,036	1,476	1,027	816	592
No	47.68	1,888	1,688	1,514	730	653	586
Not asked (apartments and mobile homes)	N	N	N	N	N	N	N
Adequacy of insulation							
Well insulated	26.14	2,498	2,246	1,961	975	876	765
Adequately insulated	44.36	2,159	1,914	1,626	826	732	622
Poorly insulated	12.56	1,849	1,567	1,129	675	572	412
No insulation	1.46	1,545	1,093	595	573	405	221
Type of glass in windows							
Single-pane glass	24.26	1,878	1,576	1,298	733	615	507
Double-pane glass	58.60	2,335	2,098	1,771	884	794	670
Triple-pane glass	1.65	2,508	2,220	1,913	960	850	732
Number of household members							
1 member	16.97	1,892	1,639	1,303	1,892	1,639	1,303
2 members	33.18	2,251	2,010	1,682	1,125	1,005	841
3 members	13.72	2,250	1,990	1,685	750	663	562
4 members	12.25	2,373	2,107	1,813	593	527	453
5 members	5.10	2,345	2,057	1,822	469	411	364
6 or more members	3.30	2,376	2,062	1,789	352	306	265
2020 annual household income							
Less than \$5,000	1.66	1,581	1,257	842	550	438	293
\$5,000 to \$9,999	1.25	1,488	1,167	812	576	452	315
\$10,000 to \$19,999	4.70	1,732	1,412	982	831	678	471
\$20,000 to \$39,999	14.06	1,806	1,551	1,228	795	683	541
\$40,000 to \$59,999	13.15	1,999	1,732	1,402	829	719	582
\$60,000 to \$99,999	21.48	2,120	1,888	1,594	801	713	602
\$100,000 to \$149,999	13.72	2,422	2,190	1,914	857	775	677
\$150,000 or more	14.50	2,998	2,727	2,428	982	894	796

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	Total single-family ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	84.52	2,207	1,951	1,638	843	745	626
Ownership of housing unit^h							
Owned	73.22	2,302	2,050	1,737	896	798	676
Rented	11.30	1,593	1,312	998	542	446	340

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.

^a Total single-family includes all single-family (detached and attached) primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^b 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.

^c When calculating average heated and cooled square footage, all housing units are considered, including those that are not heated or cooled.

^d 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.

^e 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.

^f Households that use propane only for outdoor grilling are excluded from the RECS estimate of households using propane.

^g Some other fuel includes coal and district steam.

^h 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 HC10.14 Average square footage of single-family 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 single-family ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.47	0.53	0.57	0.67	0.71	0.74
Fuels used for any use (more than one may apply)							
Electricity	0.00	0.47	0.53	0.57	0.67	0.71	0.74
Natural gas	0.58	0.57	0.61	0.67	0.83	0.87	0.86
Propane ^f	2.74	1.41	1.46	1.93	2.17	2.20	2.55
Wood	2.48	1.08	1.09	1.87	1.75	1.74	2.41
Fuel oil or kerosene	3.28	1.73	1.66	3.63	2.63	2.47	4.07
Distributed solar generation							
Yes	4.05	2.07	2.61	3.03	2.97	3.37	3.52
No	0.18	0.47	0.53	0.58	0.68	0.70	0.75
Not asked (apartments)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Main space heating fuel							
Natural gas	0.68	0.59	0.59	0.69	0.88	0.86	0.87
Electricity	1.25	0.93	0.91	1.21	1.27	1.20	1.48
Fuel oil or kerosene	3.49	1.99	1.89	4.11	2.92	2.67	4.46
Propane	4.47	2.03	1.97	3.17	2.57	2.68	3.59
Wood	5.26	3.35	3.37	7.37	4.07	4.20	7.18
Some other fuel ^g	41.91	17.28	15.75	66.39	23.23	14.54	63.55
Does not use heating equipment	5.41	3.31	0.00	5.09	4.36	0.00	5.72
Air-conditioning equipment							
Uses air-conditioning equipment	0.34	0.51	0.58	0.56	0.70	0.74	0.71
Does not use air-conditioning equipment	3.15	1.36	1.64	0.00	2.07	2.34	0.00
Fuel used by main water heater							
Natural gas	0.70	0.70	0.75	0.83	0.98	1.02	1.03
Electricity	0.94	0.74	0.75	1.04	1.09	1.16	1.26
Propane	4.73	2.28	2.27	2.92	3.10	3.33	3.61
Fuel oil or kerosene	5.24	2.41	2.47	4.57	3.40	3.34	5.19
Some other fuel ^g	13.06	6.63	11.83	15.10	12.47	15.68	20.78
Indoor light bulbs used at least 4 hours a day							
0 to 2	1.32	0.90	1.01	1.25	1.24	1.31	1.47
3 to 5	1.54	1.09	1.25	1.62	1.40	1.40	1.76
6 to 9	1.96	1.16	1.25	1.43	1.38	1.47	1.53
10 to 19	2.34	1.07	1.13	1.50	1.51	1.56	1.79
20 or more	4.15	2.10	1.99	2.62	2.82	2.82	3.12
Total number of rooms (excluding bathrooms)							
1 or 2	18.42	5.15	10.92	19.20	13.95	20.19	22.29
3	8.42	5.20	5.17	10.11	6.26	6.31	11.12
4	3.62	2.11	2.49	3.26	3.26	3.50	4.44
5	2.60	1.01	1.09	1.78	1.94	2.02	2.55
6	1.72	0.80	1.07	1.47	1.39	1.58	1.86
7	2.00	0.82	0.95	1.16	1.60	1.73	1.83
8	2.17	0.84	0.95	1.38	1.26	1.29	1.63
9 or more	1.62	0.83	0.93	0.96	1.19	1.20	1.31

Relative standard errors (RSEs) for Table HC10.14 Average square footage of single-family 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 single-family ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.47	0.53	0.57	0.67	0.71	0.74
Number of bedrooms							
0	20.18	18.16	16.24	26.95	19.06	15.75	28.63
1	6.33	3.60	4.35	7.35	5.58	5.97	8.79
2	2.09	1.05	1.29	2.01	1.68	1.76	2.50
3	1.16	0.59	0.68	0.77	0.93	1.00	1.02
4	1.88	0.77	1.00	1.18	1.31	1.52	1.65
5 or more	2.98	1.59	1.84	1.96	2.52	2.66	2.83
Basement							
Yes	0.64	0.60	0.69	0.99	0.89	0.95	1.18
Finished basement	1.13	0.75	0.80	1.23	1.19	1.24	1.42
Unfinished basement	1.50	0.98	1.16	1.94	1.54	1.66	2.51
No	0.49	0.65	0.74	0.78	0.92	0.94	0.95
Not asked (apartments and mobile homes)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Adequacy of insulation							
Well insulated	1.68	0.92	1.00	1.09	1.06	1.17	1.24
Adequately insulated	0.95	0.67	0.69	0.77	1.00	1.02	1.08
Poorly insulated	2.58	1.39	1.67	2.22	1.71	1.98	2.53
No insulation	8.20	4.19	5.71	8.45	5.69	6.93	9.71
Type of glass in windows							
Single-pane glass	1.37	1.04	1.25	1.38	1.46	1.66	1.62
Double-pane glass	0.58	0.54	0.60	0.65	0.68	0.75	0.77
Triple-pane glass	6.51	3.21	3.78	4.55	4.76	4.67	5.55
Number of household members							
1 member	1.82	1.08	1.11	1.49	1.08	1.11	1.49
2 members	1.16	0.77	0.74	0.93	0.77	0.74	0.93
3 members	2.09	1.43	1.41	1.68	1.43	1.41	1.68
4 members	2.48	1.35	1.55	1.78	1.35	1.55	1.78
5 members	3.97	1.85	2.28	2.56	1.85	2.28	2.56
6 or more members	5.76	2.89	3.01	3.71	2.95	3.00	3.64
2020 annual household income							
Less than \$5,000	6.80	4.68	4.87	7.41	7.02	7.53	9.31
\$5,000 to \$9,999	8.76	5.22	7.00	10.29	7.76	8.82	11.41
\$10,000 to \$19,999	3.86	2.07	2.69	3.83	2.53	3.17	3.90
\$20,000 to \$39,999	2.16	1.13	1.23	1.88	1.82	1.91	2.22
\$40,000 to \$59,999	2.20	1.35	1.34	1.78	1.77	1.88	2.31
\$60,000 to \$99,999	1.62	0.95	0.91	1.17	1.38	1.37	1.38
\$100,000 to \$149,999	1.83	1.00	1.08	1.24	1.41	1.48	1.67
\$150,000 or more	2.14	0.91	1.09	1.25	1.17	1.22	1.40

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All homes	0.00	0.47	0.53	0.57	0.67	0.71	0.74
Ownership of housing unit^h							
Owned	0.36	0.52	0.57	0.62	0.68	0.72	0.72
Rented	2.35	1.33	1.69	2.50	1.82	2.12	2.89

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

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