

Table HC10.9 Average square footage of U.S. homes, 2020

	Number of housing units (million)	Average square footage per housing unit			Average square footage per household member		
		Total U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated
All homes	123.53	1,818	1,614	1,335	741	657	544
Census region and division							
Northeast	21.92	1,827	1,601	1,002	752	659	413
New England	5.88	1,930	1,645	839	782	666	340
Middle Atlantic	16.04	1,789	1,584	1,062	741	657	440
Midwest	27.04	2,006	1,863	1,552	846	786	654
East North Central	18.55	2,001	1,851	1,520	844	781	641
West North Central	8.50	2,017	1,891	1,621	850	797	683
South	46.84	1,806	1,570	1,516	740	643	621
South Atlantic	24.84	1,824	1,558	1,546	759	649	644
East South Central	7.38	1,878	1,673	1,523	804	716	652
West South Central	14.62	1,739	1,539	1,462	678	600	570
West	27.72	1,650	1,453	1,080	639	563	419
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
Census urban/rural classification^d							
Urban	100.44	1,733	1,533	1,291	701	620	522
Urbanized area	89.24	1,735	1,532	1,307	697	615	525
Urban cluster	11.20	1,713	1,536	1,162	737	661	500
Rural	23.09	2,190	1,966	1,524	919	825	640
Climate region^e							
Very cold/Cold	42.50	1,981	1,808	1,310	830	758	549
Mixed-humid	36.79	1,861	1,688	1,470	765	694	604
Mixed-dry/Hot-dry	15.06	1,553	1,334	1,209	587	504	457
Hot-humid	22.31	1,683	1,365	1,446	679	550	583
Marine	6.87	1,605	1,432	680	643	574	273
Housing unit type							
Single-family detached	77.07	2,264	2,003	1,684	859	760	639
Single-family attached	7.45	1,615	1,412	1,159	665	581	477
Apartments in buildings with 2–4 units	9.34	978	899	587	407	374	244
Apartments in buildings with 5 or more units	22.84	905	799	646	482	425	344
Mobile homes	6.83	1,214	1,140	907	500	470	374
Year of construction							
Before 1950	20.26	1,766	1,503	948	765	651	410
1950 to 1959	12.48	1,694	1,490	1,122	710	624	470
1960 to 1969	12.76	1,635	1,445	1,152	687	607	484
1970 to 1979	18.34	1,647	1,466	1,188	686	611	495
1980 to 1989	16.30	1,701	1,519	1,293	707	632	537
1990 to 1999	17.16	2,000	1,810	1,626	778	704	632
2000 to 2009	16.16	2,131	1,908	1,786	809	724	678
2010 to 2015	5.53	2,002	1,830	1,734	754	689	653
2016 to 2020	4.56	1,997	1,799	1,702	774	697	660

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	Total U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	123.53	1,818	1,614	1,335	741	657	544
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)	39.01	976	882	678	465	420	323
Fuels used for any use (more than one may apply)							
Electricity	123.53	1,818	1,614	1,335	741	657	544
Natural gas	75.31	1,898	1,717	1,424	755	683	566
Propane ^f	11.14	2,234	1,974	1,494	931	823	623
Wood	11.05	2,283	2,080	1,507	863	787	570
Fuel oil or kerosene	5.68	2,122	1,801	963	864	733	392
Distributed solar generation							
Yes	3.65	2,308	2,018	1,731	792	692	594
No	87.70	2,125	1,885	1,577	820	728	609
Not asked (apartments)	32.18	926	828	629	456	407	310
Main space heating fuel							
Natural gas	62.71	1,984	1,837	1,507	790	732	600
Electricity	42.57	1,548	1,423	1,196	655	602	506
Fuel oil or kerosene	4.93	2,153	1,826	963	895	759	400
Propane	5.21	2,249	2,013	1,466	945	846	616
Wood	2.25	1,991	1,759	884	794	702	353
Some other fuel ^g	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	5.79	1,271	0	872	484	0	332
Air-conditioning equipment							
Uses air-conditioning equipment	109.51	1,860	1,659	1,505	754	673	610
Does not use air-conditioning equipment	14.02	1,490	1,256	0	632	533	0
Fuel used by main water heater							
Natural gas	59.33	1,932	1,749	1,456	762	690	574
Electricity	57.04	1,647	1,434	1,215	695	606	513
Propane	4.12	2,366	2,074	1,562	990	868	654
Fuel oil or kerosene	2.62	2,135	1,806	903	865	732	366
Some other fuel ^g	0.41	1,744	1,105	953	490	311	268
Indoor light bulbs used at least 4 hours a day							
0 to 2	47.78	1,606	1,395	1,133	727	631	513
3 to 5	31.24	1,716	1,520	1,241	719	637	520
6 to 9	23.06	1,896	1,693	1,402	736	657	544
10 to 19	16.66	2,256	2,053	1,741	785	714	606
20 or more	4.79	2,707	2,494	2,222	822	757	675

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	Number of	Average square footage			Average square footage		
	housing units (million)	per housing unit		per household member			
	Total U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	123.53	1,818	1,614	1,335	741	657	544
Total number of rooms (excluding bathrooms)							
1 or 2	4.59	632	556	442	402	354	282
3	8.73	802	686	504	468	400	294
4	15.95	1,040	897	670	501	432	322
5	19.54	1,374	1,196	932	577	502	391
6	22.10	1,716	1,490	1,215	695	603	492
7	18.86	2,017	1,786	1,476	779	690	570
8	13.87	2,369	2,127	1,804	867	778	660
9 or more	19.90	3,140	2,863	2,506	1,039	948	829
Number of bedrooms							
0	1.82	657	545	424	384	319	248
1	14.52	791	696	489	539	475	334
2	30.67	1,274	1,106	850	599	520	400
3	48.27	1,917	1,703	1,403	748	664	547
4	22.08	2,658	2,365	2,076	869	774	679
5 or more	6.16	3,514	3,222	2,823	971	890	780
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)	39.01	976	882	678	465	420	323
Adequacy of insulation							
Well insulated	34.34	2,143	1,929	1,670	884	796	689
Adequately insulated	64.27	1,794	1,597	1,337	734	653	547
Poorly insulated	21.29	1,484	1,285	927	586	507	366
No insulation	3.63	1,131	845	519	458	342	210
Type of glass in windows							
Single-pane glass	43.51	1,456	1,241	1,004	622	530	429
Double-pane glass	77.95	2,010	1,812	1,510	798	719	599
Triple-pane glass	2.07	2,221	1,961	1,670	912	806	686
Number of household members							
1 member	33.59	1,394	1,228	953	1,394	1,228	953
2 members	45.31	1,919	1,716	1,428	960	858	714
3 members	18.27	1,949	1,734	1,440	650	578	480
4 members	15.56	2,096	1,859	1,583	524	465	396
5 members	6.44	2,104	1,844	1,624	421	369	325
6 or more members	4.37	2,081	1,799	1,557	305	264	228

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		Total U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated
All homes	123.53	1,818	1,614	1,335	741	657	544
2020 annual household income							
Less than \$5,000	4.48	1,140	960	653	438	368	250
\$5,000 to \$9,999	4.01	1,076	916	632	496	422	291
\$10,000 to \$19,999	10.25	1,288	1,103	759	648	555	382
\$20,000 to \$39,999	24.07	1,457	1,271	1,004	663	579	457
\$40,000 to \$59,999	19.61	1,668	1,455	1,176	723	631	509
\$60,000 to \$99,999	27.71	1,867	1,668	1,391	740	661	551
\$100,000 to \$149,999	16.54	2,192	1,980	1,726	803	725	632
\$150,000 or more	16.86	2,742	2,487	2,213	939	851	757
Ownership of housing unit^h							
Owned	82.92	2,176	1,941	1,641	863	770	651
Rented	40.61	1,089	945	709	469	407	306

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 U.S. includes all 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 HC10.9 Average square footage of U.S. 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 U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.36	0.45	0.50	0.62	0.69	0.69
Census region and division							
Northeast	0.00	0.88	0.98	1.74	1.18	1.23	1.72
New England	0.00	1.35	1.43	2.33	1.87	1.86	2.34
Middle Atlantic	0.00	1.17	1.26	2.14	1.54	1.57	2.15
Midwest	0.00	0.75	0.89	1.24	1.13	1.25	1.45
East North Central	0.00	1.05	1.16	1.58	1.49	1.57	1.79
West North Central	0.00	1.02	1.10	1.46	1.79	1.89	2.07
South	0.00	0.69	0.79	0.68	1.11	1.18	1.08
South Atlantic	0.00	0.85	0.98	0.98	1.42	1.48	1.50
East South Central	0.00	1.58	1.53	1.64	1.98	1.87	2.02
West South Central	0.00	1.40	1.42	1.57	1.90	1.94	1.87
West	0.00	0.59	0.72	1.25	1.04	1.15	1.45
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
Census urban/rural classification^d							
Urban	0.28	0.41	0.51	0.54	0.70	0.79	0.73
Urbanized area	0.42	0.51	0.60	0.62	0.78	0.88	0.80
Urban cluster	2.74	1.43	1.40	1.87	1.63	1.63	1.98
Rural	1.23	0.92	0.90	1.23	1.28	1.26	1.50
Climate region^e							
Very cold/Cold	0.54	0.62	0.63	1.09	0.79	0.80	1.17
Mixed-humid	0.77	0.69	0.69	0.78	1.21	1.17	1.24
Mixed-dry/Hot-dry	1.23	1.19	1.48	1.84	1.88	2.11	2.24
Hot-humid	0.69	1.00	1.53	1.12	1.43	1.80	1.43
Marine	2.39	1.83	1.90	4.73	2.45	2.60	4.94
Housing unit type							
Single-family detached	0.00	0.48	0.56	0.60	0.73	0.80	0.81
Single-family attached	0.00	1.21	1.52	2.12	1.83	1.98	2.52
Apartments in buildings with 2–4 units	0.00	1.50	1.81	3.05	2.43	2.72	3.04
Apartments in buildings with 5 or more units	0.00	0.76	1.18	1.42	1.29	1.74	1.73
Mobile homes	0.00	1.27	1.61	2.47	2.95	3.28	3.78
Year of construction							
Before 1950	0.00	1.43	1.39	2.28	1.85	1.91	2.73
1950 to 1959	0.00	1.51	1.66	2.40	2.14	2.24	2.87
1960 to 1969	0.00	1.80	2.06	2.79	2.36	2.68	2.94
1970 to 1979	0.00	1.14	1.25	1.43	1.39	1.58	1.45
1980 to 1989	0.00	1.31	1.42	1.79	1.80	1.87	2.08
1990 to 1999	0.00	1.43	1.50	1.71	1.59	1.85	1.90
2000 to 2009	0.00	1.12	1.31	1.28	1.55	1.76	1.63
2010 to 2015	2.84	2.48	2.88	2.63	2.59	2.85	2.78
2016 to 2020	3.44	2.47	2.82	2.75	2.83	2.93	2.78

Relative standard errors (RSEs) for Table HC10.9 Average square footage of U.S. 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 U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.36	0.45	0.50	0.62	0.69	0.69
Number of stories							
1 story	0.71	0.61	0.67	0.79	1.01	1.04	1.10
2 stories	0.92	0.67	0.75	1.01	0.82	0.91	1.20
3 or more stories	5.12	2.84	3.06	4.34	4.27	4.56	5.05
Split-level	5.35	2.76	2.57	3.67	4.54	4.40	5.38
Not asked (apartments and mobile homes)	0.00	0.59	0.90	1.29	1.11	1.45	1.55
Fuels used for any use (more than one may apply)							
Electricity	0.00	0.36	0.45	0.50	0.62	0.69	0.69
Natural gas	0.57	0.53	0.57	0.66	0.77	0.80	0.80
Propane ^f	2.48	1.33	1.33	1.73	2.04	2.14	2.40
Wood	2.35	1.09	1.07	1.75	1.84	1.84	2.41
Fuel oil or kerosene	3.26	1.68	1.50	3.06	2.78	2.68	3.96
Distributed solar generation							
Yes	3.96	2.08	2.63	3.08	3.13	3.55	3.57
No	0.16	0.44	0.49	0.55	0.66	0.68	0.76
Not asked (apartments)	0.00	0.70	1.04	1.42	1.16	1.54	1.57
Main space heating fuel							
Natural gas	0.77	0.55	0.55	0.73	0.81	0.79	0.86
Electricity	0.92	0.68	0.69	0.88	1.06	1.07	1.16
Fuel oil or kerosene	3.50	1.87	1.74	3.61	2.91	2.72	4.38
Propane	3.76	2.12	2.00	2.96	2.46	2.54	3.30
Wood	4.88	2.93	2.86	6.99	3.77	3.94	7.05
Some other fuel ^g	35.67	24.17	21.98	41.18	28.16	23.15	38.25
Does not use heating equipment	4.41	2.09	0.00	3.48	3.02	0.00	4.09
Air-conditioning equipment							
Uses air-conditioning equipment	0.35	0.41	0.48	0.45	0.68	0.73	0.70
Does not use air-conditioning equipment	2.70	1.35	1.54	0.00	2.09	2.27	0.00
Fuel used by main water heater							
Natural gas	0.75	0.69	0.73	0.88	0.94	0.97	1.06
Electricity	0.80	0.60	0.63	0.85	1.00	1.10	1.13
Propane	4.44	2.52	2.32	3.04	3.07	3.34	3.50
Fuel oil or kerosene	5.20	3.15	2.88	4.31	4.31	4.21	5.46
Some other fuel ^g	16.08	7.23	11.82	13.86	11.67	14.87	17.76
Indoor light bulbs used at least 4 hours a day							
0 to 2	1.21	0.74	0.84	1.09	1.07	1.19	1.40
3 to 5	1.27	1.12	1.22	1.58	1.50	1.59	1.79
6 to 9	1.80	1.08	1.10	1.33	1.29	1.34	1.40
10 to 19	2.26	1.14	1.11	1.51	1.48	1.48	1.80
20 or more	4.44	2.32	2.11	2.86	2.76	2.75	3.17

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	Total U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.36	0.45	0.50	0.62	0.69	0.69
Total number of rooms (excluding bathrooms)							
1 or 2	4.95	2.10	2.77	3.57	6.18	6.74	6.87
3	2.52	1.41	2.11	2.90	2.78	3.57	3.61
4	2.05	0.89	1.33	1.96	1.89	2.17	2.46
5	1.99	0.91	1.05	1.41	1.58	1.62	1.98
6	1.80	0.72	0.97	1.27	1.44	1.61	1.84
7	1.81	0.82	0.97	1.13	1.51	1.64	1.72
8	2.06	0.80	0.90	1.33	1.33	1.32	1.66
9 or more	1.53	0.84	0.92	1.00	1.28	1.28	1.45
Number of bedrooms							
0	8.69	5.65	5.01	7.60	8.75	9.09	10.20
1	1.88	0.96	1.52	1.94	2.10	2.55	2.75
2	1.21	0.66	0.91	1.31	1.36	1.57	1.76
3	1.16	0.53	0.59	0.70	0.85	0.90	0.88
4	1.86	0.75	0.98	1.16	1.30	1.52	1.67
5 or more	2.93	1.55	1.82	2.00	2.60	2.74	2.91
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	0.59	0.90	1.29	1.11	1.45	1.55
Adequacy of insulation							
Well insulated	1.43	0.93	1.06	1.08	1.05	1.24	1.25
Adequately insulated	0.76	0.64	0.67	0.83	0.99	1.02	1.09
Poorly insulated	1.85	1.29	1.48	1.88	1.59	1.81	2.13
No insulation	5.49	3.34	4.07	5.22	4.11	4.95	5.79
Type of glass in windows							
Single-pane glass	1.08	0.88	1.00	1.22	1.17	1.36	1.42
Double-pane glass	0.61	0.51	0.57	0.63	0.69	0.74	0.74
Triple-pane glass	6.23	3.15	3.84	4.57	4.26	4.53	5.20
Number of household members							
1 member	1.25	0.90	1.01	1.37	0.90	1.01	1.37
2 members	1.15	0.68	0.66	0.92	0.68	0.66	0.92
3 members	1.87	1.37	1.34	1.58	1.37	1.34	1.58
4 members	2.08	1.31	1.51	1.77	1.31	1.51	1.77
5 members	4.12	2.17	2.53	2.70	2.17	2.53	2.70
6 or more members	4.58	2.48	2.66	3.18	2.78	2.88	3.31

Relative standard errors (RSEs) for Table HC10.9 Average square footage of U.S. 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 U.S. ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.36	0.45	0.50	0.62	0.69	0.69
2020 annual household income							
Less than \$5,000	4.63	2.98	3.18	4.78	4.79	5.09	6.16
\$5,000 to \$9,999	5.53	2.71	3.33	4.65	4.43	4.77	5.72
\$10,000 to \$19,999	3.21	1.97	2.04	2.93	2.69	3.11	3.49
\$20,000 to \$39,999	1.98	1.12	1.25	1.63	1.63	1.66	2.02
\$40,000 to \$59,999	1.83	1.28	1.29	1.74	1.62	1.63	1.98
\$60,000 to \$99,999	1.58	0.98	0.95	1.25	1.30	1.34	1.31
\$100,000 to \$149,999	1.83	1.09	1.15	1.30	1.34	1.40	1.64
\$150,000 or more	1.93	0.97	1.18	1.35	1.13	1.21	1.36
Ownership of housing unit^h							
Owned	0.42	0.50	0.54	0.60	0.71	0.74	0.77
Rented	0.86	0.70	0.97	1.31	1.07	1.31	1.59

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.

^a *Total U.S.* includes all 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.