

Table HC10.15 Average square footage of apartment units, 2020

	Number of housing units (million)	Average square footage per housing unit			Average square footage per household member		
		Total apartment units ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated
All homes	32.18	926	828	629	456	407	310
Census region and division							
Northeast	8.24	934	912	517	450	439	249
New England	2.10	968	958	440	431	427	196
Middle Atlantic	6.14	922	896	543	457	444	269
Midwest	6.15	959	940	667	513	503	356
East North Central	4.42	978	958	667	510	500	348
West North Central	1.73	910	895	666	519	511	380
South	10.19	949	800	826	475	400	413
South Atlantic	5.67	996	789	883	511	405	453
East South Central	1.25	916	880	783	507	487	434
West South Central	3.27	880	788	743	407	364	343
West	7.59	860	682	456	399	317	211
Mountain	1.99	899	821	654	433	396	316
Mountain North	0.99	927	897	565	472	457	288
Mountain South	1.00	870	747	743	399	342	340
Pacific	5.60	846	633	385	387	290	176
Census urban/rural classification^d							
Urban	31.29	927	827	628	454	405	308
Urbanized area	29.15	927	822	637	449	398	309
Urban cluster	2.14	929	903	510	529	514	291
Rural	0.89	889	843	641	539	511	389
Climate region^e							
Very cold/Cold	10.52	961	945	584	496	488	301
Mixed-humid	9.75	917	883	668	459	442	334
Mixed-dry/Hot-dry	4.24	830	614	556	358	265	239
Hot-humid	5.62	968	706	846	473	345	413
Marine	2.04	871	737	231	428	362	113
Year of construction							
Before 1950	5.44	942	898	485	488	466	251
1950 to 1959	2.01	811	755	436	399	372	215
1960 to 1969	3.53	869	785	535	432	391	266
1970 to 1979	5.56	897	778	597	436	379	291
1980 to 1989	5.03	915	797	651	443	386	315
1990 to 1999	3.50	979	862	734	458	403	343
2000 to 2009	3.89	984	836	778	505	429	400
2010 to 2015	1.78	954	849	807	477	424	403
2016 to 2020	1.43	996	934	836	440	413	369
Fuels used for any use (more than one may apply)							
Electricity	32.18	926	828	629	456	407	310
Natural gas	17.89	922	847	593	443	407	285
Propane ^f	0.76	881	787	584	437	391	290
Wood	0.58	1,068	1,056	740	442	437	306
Fuel oil or kerosene	0.98	910	889	442	427	417	207

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	Total apartment units ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	32.18	926	828	629	456	407	310
Main space heating fuel							
Natural gas	11.90	944	944	616	463	463	302
Electricity	16.26	918	887	654	461	446	328
Fuel oil or kerosene	0.84	901	901	430	447	447	213
Propane	0.19	788	788	422	422	422	225
Wood	Q	Q	Q	Q	Q	Q	Q
Some other fuel ^b	Q	Q	Q	Q	Q	Q	Q
Does not use heating equipment	2.92	909	0	615	408	0	276
Air-conditioning equipment							
Uses air-conditioning equipment	27.13	935	842	746	459	413	366
Does not use air-conditioning equipment	5.05	877	750	0	438	375	0
Fuel used by main water heater							
Natural gas	13.51	919	846	588	444	409	284
Electricity	17.57	933	815	669	469	410	336
Propane	0.30	949	830	630	524	458	348
Fuel oil or kerosene	0.67	891	860	418	396	382	186
Some other fuel ^b	0.12	905	391	485	301	130	161
Indoor light bulbs used at least 4 hours a day							
0 to 2	14.93	880	763	583	465	403	308
3 to 5	8.80	932	838	626	444	399	298
6 to 9	5.38	952	882	681	441	409	315
10 to 19	2.63	1,073	994	761	472	438	335
20 or more	0.44	1,173	1,164	827	493	489	347
Total number of rooms (excluding bathrooms)							
1 or 2	4.33	632	560	448	407	361	289
3	7.57	765	658	497	446	384	290
4	10.02	900	804	603	434	388	291
5	6.30	1,066	970	744	463	422	323
6	2.64	1,297	1,162	968	533	477	397
7	0.65	1,367	1,279	832	486	455	296
8	0.31	1,567	1,430	929	592	540	351
9 or more	0.36	2,059	2,028	1,193	551	542	319
Number of bedrooms							
0	1.68	565	490	396	338	293	237
1	12.38	751	675	486	523	470	338
2	14.56	1,010	890	710	444	391	312
3	2.98	1,283	1,190	867	412	382	278
4	0.37	1,620	1,478	1,067	389	355	257
5 or more	0.19	2,087	2,057	1,142	520	512	285
Adequacy of insulation							
Well insulated	6.81	946	850	682	496	445	358
Adequately insulated	16.63	931	832	642	466	416	321
Poorly insulated	6.85	918	840	591	425	389	274
No insulation	1.88	839	668	454	365	290	197

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	Total apartment units ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	32.18	926	828	629	456	407	310
Type of glass in windows							
Single-pane glass	15.79	884	773	590	446	390	297
Double-pane glass	16.05	965	880	667	464	423	320
Triple-pane glass	0.34	1,001	901	638	542	488	345
Number of household members							
1 member	14.47	850	770	566	850	770	566
2 members	9.82	956	846	683	478	423	342
3 members	3.54	984	893	629	328	298	210
4 members	2.58	1,015	898	668	254	225	167
5 members	1.04	1,133	976	784	227	195	157
6 or more members	0.71	1,133	948	793	159	133	111
2020 annual household income							
Less than \$5,000	2.27	839	734	492	344	302	202
\$5,000 to \$9,999	2.14	829	748	502	433	390	262
\$10,000 to \$19,999	4.22	845	768	492	445	405	259
\$20,000 to \$39,999	7.76	908	819	635	457	413	320
\$40,000 to \$59,999	5.27	924	810	649	463	406	325
\$60,000 to \$99,999	5.62	942	860	646	466	425	319
\$100,000 to \$149,999	2.59	1,024	902	754	473	416	348
\$150,000 or more	2.31	1,168	1,010	882	555	480	419
Ownership of housing unit^h							
Owned	4.32	1,191	1,040	888	609	532	454
Rented	27.86	885	795	589	433	389	288

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 apartment units* includes all primary occupied housing units in apartment buildings 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 HC10.15 Average square footage of apartment units, 2020

	RSEs for number of housing units	RSEs for average square footage per housing unit			RSEs for average square footage per household member		
	Total apartment units ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.70	1.04	1.42	1.16	1.54	1.57
Census region and division							
Northeast	0.00	1.57	1.70	3.17	2.61	2.58	3.39
New England	0.00	2.22	2.33	4.70	4.05	4.10	5.34
Middle Atlantic	0.00	1.95	2.14	3.70	3.30	3.33	4.25
Midwest	0.00	1.67	1.80	3.54	3.53	3.64	4.26
East North Central	0.00	1.89	2.10	4.12	4.27	4.46	4.88
West North Central	0.00	2.91	3.11	5.35	5.25	5.26	7.78
South	0.00	1.35	2.38	1.83	2.57	3.49	2.54
South Atlantic	0.00	1.77	3.34	2.58	3.08	4.29	3.32
East South Central	0.00	2.44	2.68	4.58	3.45	3.86	4.89
West South Central	0.00	2.51	3.68	3.74	4.58	5.52	5.19
West	0.00	1.14	2.59	3.66	2.74	3.56	4.53
Mountain	0.00	2.69	3.72	5.71	4.37	4.90	6.70
Mountain North	0.00	4.45	4.90	11.06	6.69	7.66	12.22
Mountain South	0.00	2.51	5.55	4.52	6.03	7.02	6.83
Pacific	0.00	1.42	3.41	4.96	2.99	4.34	5.42
Census urban/rural classification^d							
Urban	0.30	0.73	1.06	1.49	1.15	1.54	1.61
Urbanized area	0.53	0.77	1.10	1.51	1.20	1.61	1.64
Urban cluster	6.19	2.73	3.03	5.39	5.15	5.65	6.74
Rural	10.45	4.15	5.16	5.38	7.10	8.13	8.14
Climate region^e							
Very cold/Cold	1.17	1.48	1.56	2.82	2.07	2.11	2.93
Mixed-humid	1.77	1.33	1.49	2.09	2.29	2.37	2.42
Mixed-dry/Hot-dry	3.02	1.49	4.23	4.06	4.09	6.07	5.35
Hot-humid	2.21	2.10	4.42	2.66	3.14	4.84	3.15
Marine	5.72	2.16	3.89	13.00	4.48	5.86	13.70
Year of construction							
Before 1950	4.06	2.06	2.44	5.04	3.92	4.14	5.92
1950 to 1959	7.64	2.76	4.12	6.90	6.36	7.96	9.32
1960 to 1969	4.45	1.88	2.90	4.15	3.80	4.44	4.87
1970 to 1979	3.37	1.27	2.48	3.25	2.78	3.73	3.76
1980 to 1989	3.56	1.64	2.52	4.03	3.87	4.33	5.39
1990 to 1999	5.77	2.64	3.40	4.75	4.44	4.69	6.49
2000 to 2009	4.65	2.01	3.14	3.41	3.53	4.65	4.31
2010 to 2015	6.03	2.86	3.74	3.76	6.43	6.98	7.00
2016 to 2020	7.60	3.45	4.06	5.33	6.46	6.64	7.39
Fuels used for any use (more than one may apply)							
Electricity	0.00	0.70	1.04	1.42	1.16	1.54	1.57
Natural gas	1.45	0.99	1.30	1.92	1.81	2.08	2.42
Propane ^f	11.39	5.91	7.23	10.63	11.44	13.23	15.18
Wood	12.98	4.64	5.00	11.11	8.04	8.21	11.83
Fuel oil or kerosene	11.11	3.42	3.79	8.04	7.94	8.52	10.98

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	RSEs for number of housing units		RSEs for average square footage per housing unit		RSEs for average square footage per household member		
	Total apartment units ^a	Total ^b	Heated ^c	Cooled ^c	Total ^b	Heated	Cooled
All homes	0.00	0.70	1.04	1.42	1.16	1.54	1.57
Main space heating fuel							
Natural gas	2.12	1.30	1.30	2.70	2.26	2.26	3.10
Electricity	1.57	0.97	1.09	1.88	1.74	1.82	2.30
Fuel oil or kerosene	12.66	3.31	3.31	8.24	8.34	8.34	11.51
Propane	20.22	5.83	5.83	12.45	18.48	18.48	17.87
Wood	38.14	12.12	12.12	54.80	22.84	22.84	49.96
Some other fuel ^b	100.48	0.00	0.00	0.00	0.00	0.00	0.00
Does not use heating equipment	6.45	2.28	0.00	5.49	5.44	0.00	7.58
Air-conditioning equipment							
Uses air-conditioning equipment	0.71	0.84	1.15	1.09	1.34	1.74	1.49
Does not use air-conditioning equipment	3.83	1.87	3.22	0.00	3.60	4.35	0.00
Fuel used by main water heater							
Natural gas	1.94	1.21	1.64	2.55	1.92	2.26	2.84
Electricity	1.46	0.94	1.34	1.84	1.55	2.02	2.03
Propane	16.86	9.81	12.99	17.49	11.70	17.66	19.73
Fuel oil or kerosene	13.74	4.03	4.65	8.67	9.69	10.59	12.39
Some other fuel ^b	33.74	9.79	28.64	28.82	8.61	31.27	28.19
Indoor light bulbs used at least 4 hours a day							
0 to 2	2.22	0.92	1.61	1.91	1.88	2.62	2.49
3 to 5	3.20	1.20	1.53	2.69	2.90	3.28	3.66
6 to 9	3.89	1.93	2.21	3.41	3.43	3.81	4.75
10 to 19	6.50	3.38	4.06	5.39	4.67	5.26	6.57
20 or more	19.51	6.98	7.15	11.48	5.97	6.00	10.20
Total number of rooms (excluding bathrooms)							
1 or 2	5.10	2.17	2.73	3.71	6.05	6.38	6.82
3	2.87	1.11	2.25	2.78	3.13	4.12	3.90
4	2.79	0.81	1.55	2.57	2.23	2.65	3.12
5	3.86	1.09	1.92	2.98	2.74	3.08	3.73
6	6.89	1.75	3.11	3.93	4.60	5.40	5.94
7	14.64	6.45	6.47	12.50	11.28	10.46	15.32
8	17.45	6.27	8.76	16.78	12.45	11.57	20.12
9 or more	15.58	8.43	8.56	17.68	14.97	15.02	19.30
Number of bedrooms							
0	9.33	3.90	5.29	7.43	8.91	10.10	11.16
1	2.15	1.03	1.68	1.86	2.06	2.56	2.63
2	1.85	0.85	1.46	1.77	1.84	2.45	2.44
3	5.51	1.63	1.96	5.32	3.38	3.67	5.91
4	17.61	5.57	8.09	12.02	9.69	8.49	13.68
5 or more	23.28	16.47	16.72	35.02	28.23	28.35	37.07
Adequacy of insulation							
Well insulated	3.49	1.82	2.77	2.76	2.75	3.55	3.41
Adequately insulated	1.96	0.85	1.25	2.06	1.84	2.27	2.45
Poorly insulated	3.92	1.70	2.33	3.08	2.76	3.20	3.56
No insulation	8.95	3.19	6.20	6.85	6.50	8.41	8.70

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All homes	0.00	0.70	1.04	1.42	1.16	1.54	1.57
Type of glass in windows							
Single-pane glass	1.97	1.16	1.74	1.93	1.99	2.59	2.74
Double-pane glass	1.92	0.95	1.35	2.09	1.93	2.35	2.18
Triple-pane glass	17.72	7.02	9.05	12.11	13.83	16.35	16.36
Number of household members							
1 member	1.80	1.24	1.77	2.00	1.24	1.77	2.00
2 members	2.67	1.43	2.09	2.71	1.43	2.09	2.71
3 members	4.73	1.95	2.94	4.47	1.95	2.94	4.47
4 members	6.57	2.44	3.47	5.09	2.44	3.47	5.09
5 members	12.61	4.50	6.74	7.56	4.50	6.74	7.56
6 or more members	13.14	6.32	9.50	11.87	8.07	11.51	12.88
2020 annual household income							
Less than \$5,000	7.02	2.63	4.25	6.05	5.05	6.22	7.52
\$5,000 to \$9,999	6.80	3.43	4.36	6.52	6.02	6.11	8.17
\$10,000 to \$19,999	5.76	2.22	2.41	3.51	5.04	5.31	5.63
\$20,000 to \$39,999	3.67	1.54	2.19	2.73	2.74	3.09	3.36
\$40,000 to \$59,999	4.24	1.39	2.52	3.56	2.79	3.46	4.36
\$60,000 to \$99,999	3.45	1.41	2.10	3.32	2.76	3.64	4.00
\$100,000 to \$149,999	6.87	2.55	3.68	5.06	4.30	4.17	6.28
\$150,000 or more	5.72	3.12	4.50	5.21	4.29	5.19	5.42
Ownership of housing unit^h							
Owned	4.13	2.14	3.29	3.92	3.24	3.90	4.68
Rented	0.64	0.69	1.05	1.38	1.28	1.64	1.71

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