

Preliminary data release date: March 2022

Final data release date: March 2023

Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

	Number of housing units (million)									
	Year of construction									
	Total U.S. ^a	Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Census region and division										
Northeast	21.92	7.15	3.02	2.56	2.62	2.20	1.80	1.58	0.56	0.43
New England	5.88	1.85	0.66	0.60	0.78	0.75	0.50	0.45	0.14	0.14
Middle Atlantic	16.04	5.30	2.36	1.97	1.84	1.45	1.30	1.13	0.42	0.29
Midwest	27.04	6.11	3.18	2.90	4.05	2.71	3.56	2.95	0.86	0.73
East North Central	18.55	4.33	2.34	2.04	2.74	1.79	2.45	1.95	0.44	0.47
West North Central	8.50	1.79	0.83	0.86	1.31	0.92	1.11	1.00	0.42	0.25
South	46.84	3.73	3.55	4.35	6.97	7.44	7.75	7.74	2.94	2.38
South Atlantic	24.84	2.00	1.84	2.25	3.58	4.12	4.35	4.19	1.33	1.19
East South Central	7.38	0.70	0.61	0.76	1.17	1.06	1.27	1.09	0.44	0.28
West South Central	14.62	1.03	1.10	1.34	2.21	2.26	2.13	2.46	1.17	0.91
West	27.72	3.27	2.73	2.95	4.71	3.95	4.05	3.89	1.16	1.02
Mountain	9.22	0.63	0.59	0.67	1.49	1.33	1.74	1.75	0.50	0.50
Mountain North	4.62	0.48	0.34	0.35	0.77	0.58	0.77	0.75	0.28	0.29
Mountain South	4.60	0.15	0.25	0.32	0.72	0.75	0.97	1.00	0.23	0.21
Pacific	18.51	2.63	2.14	2.27	3.22	2.62	2.31	2.14	0.66	0.53
Census urban-rural classification^b										
Urban	100.44	17.09	11.16	11.12	14.81	13.35	12.99	12.68	4.05	3.17
Urbanized area	89.24	14.78	9.92	9.86	13.09	11.96	11.55	11.45	3.74	2.88
Urban cluster	11.20	2.31	1.24	1.27	1.73	1.39	1.45	1.22	0.31	0.29
Rural	23.09	3.16	1.32	1.63	3.53	2.95	4.16	3.48	1.47	1.39
Climate region^c										
Very cold/Cold	42.50	10.28	4.85	4.32	6.26	4.50	5.21	4.43	1.36	1.28
Mixed-humid	36.79	6.02	3.92	4.16	4.69	5.01	5.30	4.83	1.69	1.17
Mixed-dry/Hot-dry	15.06	1.40	1.79	1.67	2.63	2.35	2.07	2.19	0.55	0.40
Hot-humid	22.31	1.25	1.28	1.82	3.67	3.61	3.69	3.97	1.61	1.41
Marine	6.87	1.31	0.63	0.78	1.09	0.81	0.89	0.74	0.32	0.30
Housing unit type										
Single-family detached	77.07	13.58	9.90	8.23	10.46	8.67	10.65	9.98	3.05	2.53
Single-family attached	7.45	1.14	0.40	0.63	0.97	1.26	1.08	1.31	0.37	0.29
Apartment in buildings with 2–4 units	9.34	2.36	0.77	1.12	1.56	1.43	0.95	0.72	0.26	0.18
Apartments in buildings with 5 or more units	22.84	3.08	1.25	2.41	4.01	3.60	2.55	3.17	1.52	1.26
Mobile homes	6.83	0.09	0.16	0.37	1.34	1.33	1.92	0.98	0.32	0.31
Number of stories										
1 story	47.15	6.18	7.54	6.34	7.35	5.23	5.87	5.45	1.71	1.49
2 stories	32.47	7.96	2.28	1.83	3.12	4.01	5.23	5.33	1.55	1.17
3 or more stories	2.61	0.49	0.22	0.23	0.32	0.35	0.35	0.38	0.13	0.14
Split-level	2.28	0.08	0.26	0.45	0.65	0.35	0.29	0.13	Q	Q
Not asked (apartments and mobile homes)	39.01	5.54	2.18	3.90	6.90	6.36	5.42	4.87	2.11	1.74

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	Total U.S. ^a	Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Major outside wall construction										
Siding (aluminum, fiber cement, vinyl, or steel)	45.44	7.91	4.27	3.66	6.03	5.33	7.50	6.64	2.17	1.93
Brick	33.37	5.44	3.64	4.76	5.40	4.33	3.72	3.56	1.43	1.09
Wood	18.80	3.90	1.83	1.91	2.88	3.45	2.52	1.47	0.48	0.36
Stucco	15.65	1.62	1.60	1.34	2.20	1.97	2.36	3.00	0.89	0.69
Concrete block	6.42	0.52	0.70	0.73	1.33	0.88	0.67	1.02	0.27	0.30
Shingle (composition)	1.89	0.44	0.25	0.24	0.27	0.18	0.20	0.17	0.10	0.03
Stone	1.46	0.36	0.14	0.10	0.13	0.08	0.13	0.26	0.16	0.10
Some other material	0.50	Q	Q	Q	0.11	Q	Q	Q	Q	Q
Major roofing material										
Shingles (composition or asphalt)	76.03	12.94	8.97	8.21	10.75	9.16	10.76	9.66	3.14	2.45
Metal	9.69	1.85	0.86	0.86	1.80	1.49	1.59	0.83	0.20	0.21
Wood shingles or shakes	5.19	0.87	0.71	0.60	0.74	0.81	0.56	0.57	0.21	0.12
Ceramic or clay tiles	4.89	0.56	0.25	0.30	0.44	0.68	0.98	1.15	0.28	0.26
Concrete tiles	2.14	0.10	0.16	0.10	0.27	0.32	0.49	0.50	0.08	0.13
Slate or synthetic slate	1.49	0.53	0.11	0.09	0.14	0.14	0.16	0.20	0.06	Q
Some other material	1.26	0.33	0.18	0.19	0.19	0.09	0.07	0.09	0.05	0.07
Not asked (apartments in buildings with 5 or more units)	22.84	3.08	1.25	2.41	4.01	3.60	2.55	3.17	1.52	1.26
Total number of rooms (excluding bathrooms)										
1 or 2	4.59	0.87	0.40	0.50	0.62	0.60	0.56	0.50	0.32	0.23
3	8.73	1.53	0.69	1.02	1.58	1.34	0.89	0.81	0.51	0.36
4	15.95	2.69	1.42	1.72	2.74	2.56	1.63	1.86	0.69	0.64
5	19.54	3.22	2.37	2.08	3.08	2.90	2.43	2.13	0.72	0.61
6	22.10	3.77	2.75	2.26	3.29	2.73	3.25	2.46	0.89	0.71
7	18.86	3.10	2.23	2.04	2.72	2.09	2.67	2.55	0.73	0.71
8	13.87	2.07	1.23	1.37	1.96	1.57	2.26	2.19	0.64	0.56
9 or more	19.90	3.00	1.39	1.75	2.35	2.51	3.46	3.64	1.04	0.75
Number of bedrooms										
0	1.82	0.42	0.21	0.26	0.23	0.20	0.14	0.22	0.10	Q
1	14.52	3.05	1.17	1.62	2.37	1.98	1.31	1.51	0.81	0.72
2	30.67	5.78	2.97	2.94	4.95	4.93	3.93	3.16	1.13	0.88
3	48.27	7.10	5.89	5.23	7.25	5.97	7.17	6.21	1.86	1.61
4	22.08	2.88	1.84	2.27	2.90	2.63	3.58	3.76	1.23	0.97
5 or more	6.16	1.03	0.40	0.45	0.63	0.58	1.03	1.31	0.40	0.34
Number of other rooms (excluding bathrooms)										
1	8.41	1.37	0.73	0.83	1.14	1.12	1.11	1.00	0.65	0.48
2	27.88	4.27	3.08	3.29	4.95	4.38	3.09	2.75	1.11	0.97
3	32.82	5.43	3.71	3.55	4.90	4.20	4.29	4.15	1.42	1.19
4	26.77	4.77	2.80	2.57	3.94	3.15	3.94	3.60	1.07	0.95
5 or more	27.64	4.43	2.16	2.52	3.42	3.46	4.73	4.66	1.28	0.97
Number of full bathrooms										
0	0.15	Q	Q	Q	Q	Q	Q	Q	Q	Q
1	50.32	12.88	7.54	6.71	8.19	5.95	3.74	3.07	1.29	0.95
2	56.85	5.91	4.06	4.92	8.61	8.47	10.33	9.18	2.91	2.46
3 or more	16.21	1.44	0.87	1.11	1.52	1.84	3.07	3.91	1.32	1.13

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All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Number of half bathrooms										
0	86.83	15.41	9.42	9.37	13.14	11.30	10.94	10.41	3.75	3.09
1	33.79	4.43	2.85	3.15	4.81	4.57	5.61	5.37	1.65	1.37
2 or more	2.91	0.42	0.21	0.24	0.39	0.43	0.61	0.38	0.13	0.10
Basement										
Yes	36.83	9.97	5.12	3.86	4.40	3.46	4.51	3.80	1.02	0.68
Finished basement	21.71	3.88	2.97	2.65	3.11	2.43	3.08	2.57	0.66	0.37
Unfinished basement	15.12	6.10	2.15	1.21	1.29	1.03	1.43	1.24	0.36	0.31
No	47.68	4.75	5.18	5.00	7.04	6.48	7.23	7.48	2.40	2.14
Not asked (apartments and mobile homes)	39.01	5.54	2.18	3.90	6.90	6.36	5.42	4.87	2.11	1.74
Attic										
Yes	56.50	10.11	6.30	5.54	7.29	6.60	8.10	8.16	2.47	1.93
Finished attic	7.68	2.30	0.97	0.60	0.72	0.92	0.76	0.94	0.21	0.25
Unfinished attic	48.83	7.81	5.33	4.95	6.56	5.68	7.34	7.23	2.25	1.68
No	28.01	4.61	4.00	3.31	4.15	3.34	3.63	3.13	0.95	0.89
Not asked (apartments and mobile homes)	39.01	5.54	2.18	3.90	6.90	6.36	5.42	4.87	2.11	1.74
Attached garage										
Yes	51.79	3.05	4.83	5.08	7.51	6.83	9.43	9.61	2.91	2.55
1-car garage	11.27	1.73	2.54	1.80	1.58	1.33	0.88	0.94	0.28	0.20
2-car garage	34.18	1.22	2.13	3.12	5.63	4.87	7.09	6.55	1.92	1.66
3 or more car garage	6.34	0.10	0.16	0.15	0.30	0.63	1.45	2.13	0.71	0.70
No	32.72	11.67	5.47	3.78	3.93	3.10	2.31	1.68	0.51	0.27
Not asked (apartments and mobile homes)	39.01	5.54	2.18	3.90	6.90	6.36	5.42	4.87	2.11	1.74
Adequacy of insulation										
Well insulated	34.34	3.25	2.49	2.54	4.28	4.45	5.37	6.34	2.82	2.80
Adequately insulated	64.27	9.82	6.30	7.04	10.10	9.08	9.68	8.41	2.32	1.53
Poorly insulated	21.29	5.86	3.07	2.84	3.35	2.52	1.92	1.26	0.28	0.18
Not insulated	3.63	1.33	0.62	0.33	0.60	0.24	0.18	0.15	0.11	Q
Home is too drafty during the winter										
Never	55.37	5.97	4.66	5.34	7.94	7.66	8.43	8.89	3.40	3.07
Some of the time	52.63	10.33	5.81	5.59	7.90	6.87	7.17	5.89	1.83	1.25
Most of the time	10.39	2.52	1.33	1.27	1.58	1.22	1.06	0.99	0.25	0.16
All of the time	5.14	1.43	0.68	0.57	0.91	0.54	0.50	0.39	Q	0.08
Any ceilings higher than 8 feet										
Yes	55.18	9.36	3.15	2.87	5.55	6.97	9.59	10.69	3.77	3.24
No	61.52	10.81	9.16	9.52	11.46	8.00	5.65	4.49	1.44	1.01
Not asked (mobile homes)	6.83	0.09	0.16	0.37	1.34	1.33	1.92	0.98	0.32	0.31

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All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Number of windows										
1 to 2	6.95	0.53	0.25	0.65	1.35	1.52	0.88	1.00	0.36	0.41
3 to 5	18.15	1.66	0.92	2.00	3.44	3.30	2.60	2.43	1.00	0.80
6 to 9	29.35	3.85	3.04	3.13	5.09	4.48	3.88	3.56	1.32	0.99
10 to 15	38.42	6.76	5.28	4.59	5.52	4.03	5.08	4.52	1.48	1.17
16 to 19	13.61	3.12	1.65	1.20	1.49	1.31	1.93	1.84	0.55	0.52
20 to 29	12.43	3.08	1.11	0.96	1.19	1.26	1.89	1.87	0.59	0.48
30 or more	4.62	1.26	0.23	0.22	0.26	0.40	0.89	0.94	0.23	0.19
Type of glass in windows										
Single-pane glass	43.51	8.70	4.93	4.90	7.31	6.09	5.52	3.97	1.24	0.86
Double-pane glass	77.95	11.29	7.38	7.60	10.75	9.91	11.29	11.96	4.20	3.57
Triple-pane glass	2.07	0.26	0.17	0.26	0.28	0.30	0.34	0.24	0.09	0.13
Window frame material										
Metal (aluminum)	47.40	4.60	3.59	5.01	7.80	7.76	7.04	7.50	2.67	1.43
Wood	40.31	9.86	4.95	4.25	5.41	4.47	5.58	4.00	0.96	0.83
Vinyl	31.85	5.31	3.51	3.19	4.60	3.54	3.99	4.07	1.65	1.98
Fiberglass	1.72	0.22	0.20	0.11	0.19	0.23	0.23	0.25	0.14	0.15
Composite	2.25	0.27	0.24	0.20	0.34	0.29	0.31	0.34	0.10	0.17
Number of sliding glass or French doors										
0	60.38	15.02	7.82	6.18	7.57	6.44	6.65	6.17	2.66	1.86
1	39.81	3.33	2.99	4.36	6.63	5.93	6.38	6.42	1.97	1.80
2	15.19	1.23	0.99	1.38	2.60	2.62	2.63	2.39	0.69	0.65
3 or more	8.16	0.68	0.68	0.83	1.54	1.30	1.49	1.18	0.20	0.25
Electricity meter is a smart meter										
Yes	34.30	5.63	3.66	3.68	4.95	4.24	5.10	4.51	1.31	1.21
No	36.81	6.18	3.94	3.73	5.60	4.80	5.16	4.84	1.52	1.05
Don't know	52.42	8.45	4.88	5.35	7.79	7.26	6.90	6.81	2.70	2.29
Park a car within 20 feet of electrical outlet										
Yes	67.83	9.48	6.87	6.68	9.51	8.48	10.86	10.04	3.18	2.74
No	32.87	7.70	4.37	3.67	4.82	4.23	3.74	2.94	0.83	0.56
Not asked (apartments in buildings with 5 or more units)	22.84	3.08	1.25	2.41	4.01	3.60	2.55	3.17	1.52	1.26
Own or lease an all-electric or plug-in hybrid electric vehicle										
Yes	1.82	0.30	0.18	0.15	0.25	0.14	0.23	0.33	0.11	0.12
Charge at home	1.39	0.21	0.15	0.12	0.15	0.14	0.20	0.25	0.08	0.10
No	121.71	19.96	12.30	12.61	18.09	16.15	16.92	15.83	5.41	4.43
Natural gas available in neighborhood										
Yes	89.60	17.18	10.69	10.35	12.87	10.46	11.06	10.57	3.61	2.81
Uses natural gas	75.31	15.34	9.23	8.78	9.89	8.22	9.36	9.03	2.97	2.48
Does not use natural gas	14.29	1.83	1.46	1.57	2.98	2.25	1.70	1.54	0.64	0.33
No	33.93	3.08	1.79	2.41	5.47	5.83	6.10	5.59	1.91	1.75

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All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Distributed solar generation										
Yes	3.65	0.45	0.38	0.37	0.44	0.55	0.44	0.65	0.19	0.16
No	87.70	14.37	10.08	8.86	12.33	10.72	13.22	11.62	3.55	2.96
Not asked (apartments)	32.18	5.44	2.01	3.53	5.56	5.03	3.50	3.89	1.78	1.43
Experienced power outage lasting more than 24 hours										
Yes	22.72	3.60	2.47	2.54	3.54	3.32	3.06	2.50	1.00	0.69
Natural disaster or weather event	19.00	2.99	2.09	2.18	2.95	2.67	2.59	2.13	0.84	0.56
Unable to pay electric bill	0.25	Q	Q	Q	Q	Q	Q	Q	Q	Q
Utility had planned or unplanned blackout	3.08	0.41	0.32	0.29	0.50	0.57	0.42	0.33	0.13	0.11
Other reason for outage	0.39	0.14	Q	Q	Q	Q	Q	Q	N	Q
No	100.81	16.66	10.01	10.22	14.80	12.98	14.10	13.66	4.53	3.86
Back-up generator in home										
Yes	17.66	2.54	1.59	1.93	2.53	2.37	2.71	2.41	0.83	0.76
No	105.87	17.71	10.89	10.83	15.81	13.93	14.45	13.75	4.70	3.79
Swimming pool										
Yes	8.52	0.74	0.74	0.75	1.34	1.33	1.67	1.36	0.36	0.23
No	82.83	14.08	9.72	8.48	11.44	9.94	11.98	10.91	3.39	2.89
Not asked (apartments)	32.18	5.44	2.01	3.53	5.56	5.03	3.50	3.89	1.78	1.43
Months swimming pool is used										
0 to 3	1.90	0.24	0.24	0.23	0.36	0.26	0.29	0.21	Q	Q
4 to 7	5.08	0.43	0.44	0.41	0.79	0.80	1.02	0.81	0.23	0.16
8 to 12	1.54	Q	Q	0.10	0.19	0.27	0.36	0.33	0.08	Q
No swimming pool	82.83	14.08	9.72	8.48	11.44	9.94	11.98	10.91	3.39	2.89
Not asked (apartments)	32.18	5.44	2.01	3.53	5.56	5.03	3.50	3.89	1.78	1.43
Heated swimming pool and fuel										
Heated swimming pool	2.88	0.20	0.17	0.23	0.27	0.50	0.63	0.57	0.17	0.14
Electricity	0.85	Q	Q	Q	Q	0.18	0.21	0.17	0.08	Q
Natural gas	1.32	0.12	0.08	0.13	0.12	0.16	0.27	0.27	0.07	0.10
Propane	0.29	Q	Q	Q	Q	Q	0.09	Q	Q	Q
Some other fuel	0.42	Q	Q	Q	Q	0.12	0.07	Q	Q	Q
Unheated swimming pool	5.64	0.54	0.57	0.52	1.07	0.84	1.04	0.79	0.18	0.09
No swimming pool	82.83	14.08	9.72	8.48	11.44	9.94	11.98	10.91	3.39	2.89
Not asked (apartments)	32.18	5.44	2.01	3.53	5.56	5.03	3.50	3.89	1.78	1.43

Preliminary data release date: March 2022

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Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

	Number of housing units (million)									
	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Hot tub										
Yes	8.84	0.73	0.67	0.50	1.06	1.17	1.80	2.08	0.54	0.28
No	114.69	19.53	11.81	12.25	17.28	15.13	15.36	14.08	4.98	4.27
Months hot tub is used										
0 to 3	4.22	0.34	0.31	0.20	0.44	0.46	0.82	1.18	0.35	0.11
4 to 7	1.27	0.11	0.10	0.09	0.15	0.21	0.23	0.29	Q	Q
8 to 12	3.35	0.27	0.27	0.21	0.48	0.49	0.74	0.61	0.14	0.13
No hot tub	114.69	19.53	11.81	12.25	17.28	15.13	15.36	14.08	4.98	4.27
Hot tub heating fuel										
Electricity	4.41	0.48	0.34	0.31	0.59	0.57	0.86	0.91	0.22	0.12
Natural gas	1.47	0.08	0.11	Q	0.14	0.20	0.37	0.37	0.08	0.07
Some other fuel	0.36	Q	Q	Q	Q	Q	0.07	0.08	Q	Q
Hot tub used 0 months	2.60	0.16	0.19	0.13	0.31	0.34	0.50	0.72	0.19	Q
No hot tub	114.69	19.53	11.81	12.25	17.28	15.13	15.36	14.08	4.98	4.27

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 definition 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 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.

^c 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*.

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.

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Census region and division										
Northeast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	9.20
New England	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.93	12.13
Middle Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	11.67
Midwest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.75	6.83
East North Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.62	8.89
West North Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.89	11.60
South	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94	4.87
South Atlantic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.61	6.25
East South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.58	15.34
West South Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68	8.57
West	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.40	6.14
Mountain	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.14	8.26
Mountain North	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.98	10.61
Mountain South	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.09	10.92
Pacific	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21	9.03
Census urban-rural classification^b										
Urban	0.28	0.87	0.86	0.84	0.90	1.00	1.32	0.99	3.62	4.01
Urbanized area	0.42	1.12	1.16	1.27	1.11	1.33	1.71	1.33	4.00	4.39
Urban cluster	2.74	5.65	8.57	6.96	6.22	8.04	7.26	7.35	14.24	14.77
Rural	1.23	4.72	7.31	5.74	3.78	4.52	4.11	3.59	5.68	7.60
Climate region^c										
Very cold/Cold	0.54	1.50	1.62	1.85	1.72	1.66	1.98	1.56	5.30	5.90
Mixed-humid	0.77	2.88	2.57	3.08	2.53	2.63	3.02	2.40	5.35	7.13
Mixed-dry/Hot-dry	1.23	5.96	4.28	5.43	3.98	4.59	4.39	3.96	10.95	10.92
Hot-humid	0.69	5.57	6.38	5.63	2.73	3.07	2.89	2.83	5.76	7.54
Marine	2.39	6.12	10.20	9.66	8.49	10.72	8.73	9.18	12.73	13.11
Housing unit type										
Single-family detached	0.00	1.61	1.78	2.13	1.62	1.96	2.24	1.85	4.44	4.42
Single-family attached	0.00	9.37	14.71	8.12	8.76	6.65	13.94	11.69	19.11	20.19
Apartment in buildings with 2–4 units	0.00	5.51	11.47	9.03	8.32	7.86	12.86	10.93	20.10	28.25
Apartments in buildings with 5 or more units	0.00	5.22	10.56	5.45	4.03	4.45	6.83	5.36	6.87	7.33
Mobile homes	0.00	36.55	24.48	15.91	6.65	6.79	5.51	7.71	12.80	16.12
Number of stories										
1 story	0.71	2.59	1.93	2.46	2.41	2.98	2.50	2.98	5.82	7.00
2 stories	0.92	2.37	4.88	6.20	4.19	3.62	3.55	2.86	6.16	7.17
3 or more stories	5.12	12.37	17.16	14.66	15.35	11.32	14.41	12.85	22.26	20.61
Split-level	5.35	29.63	18.00	11.66	10.14	14.17	15.91	21.17	47.01	38.44
Not asked (apartments and mobile homes)	0.00	4.10	7.28	4.49	2.76	2.93	4.18	3.74	5.84	7.47

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Relative standard errors (RSEs) for Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Year of construction									
	Total U.S. ^a	Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Major outside wall construction										
Siding (aluminum, fiber cement, vinyl, or steel)	1.00	2.60	3.85	3.94	2.43	2.98	2.38	2.21	5.10	4.91
Brick	1.25	4.14	5.26	3.20	2.90	3.61	4.05	3.89	6.82	8.39
Wood	1.71	3.91	7.36	5.67	4.26	4.67	5.49	7.18	10.97	13.68
Stucco	1.69	6.74	5.58	7.83	5.53	5.93	4.83	4.56	9.04	10.76
Concrete block	4.22	14.76	12.96	13.22	9.00	9.93	13.02	9.27	17.81	17.41
Shingle (composition)	7.23	14.91	18.26	17.25	18.89	23.97	20.88	17.58	27.55	35.20
Stone	7.06	15.23	25.56	26.07	19.97	37.56	27.33	18.68	26.94	35.71
Some other material	13.54	34.22	44.51	46.28	28.12	45.35	46.30	38.52	44.91	45.71
Major roofing material										
Shingles (composition or asphalt)	0.47	1.42	1.89	2.00	1.66	2.15	1.97	1.99	4.07	4.52
Metal	2.36	6.47	9.58	9.67	5.77	6.77	6.96	9.44	16.96	19.49
Wood shingles or shakes	4.40	11.05	10.18	13.32	9.26	10.64	12.93	10.31	16.64	26.33
Ceramic or clay tiles	3.55	12.26	20.85	19.95	12.43	12.11	8.11	7.33	16.86	15.07
Concrete tiles	6.39	37.65	26.32	33.16	18.93	15.61	11.51	11.99	27.30	25.63
Slate or synthetic slate	7.60	11.72	25.82	32.31	25.14	31.91	25.21	19.38	33.34	40.13
Some other material	7.69	15.44	20.91	24.47	15.70	26.61	32.81	28.09	35.62	40.02
Not asked (apartments in buildings with 5 or more units)	0.00	5.22	10.56	5.45	4.03	4.45	6.83	5.36	6.87	7.33
Total number of rooms (excluding bathrooms)										
1 or 2	4.95	11.33	15.69	15.93	13.14	12.03	15.43	13.29	17.88	19.94
3	2.52	8.30	12.55	8.68	7.04	8.61	10.27	9.11	12.07	16.21
4	2.05	6.81	8.64	6.57	4.96	5.59	6.96	7.67	12.79	14.33
5	1.99	4.69	5.81	5.95	4.98	5.66	7.06	5.34	9.71	11.51
6	1.80	4.20	4.91	5.40	4.80	5.50	5.73	5.25	8.73	10.76
7	1.81	4.84	5.38	5.90	4.38	5.80	5.08	5.05	8.70	9.65
8	2.06	5.60	6.74	5.92	5.80	6.58	6.89	6.14	9.12	11.61
9 or more	1.53	5.04	7.35	5.77	4.93	4.69	4.27	3.65	6.63	8.89
Number of bedrooms										
0	8.69	17.93	24.44	22.21	24.22	22.44	28.23	25.39	32.64	42.91
1	1.88	5.79	10.08	6.66	5.76	5.76	8.19	7.88	10.65	12.10
2	1.21	3.38	5.11	4.37	3.35	3.09	4.64	4.35	9.49	10.25
3	1.16	2.68	3.20	2.74	2.11	3.05	2.73	2.67	5.49	5.81
4	1.86	5.44	5.75	5.51	5.27	5.11	5.09	4.35	7.60	7.91
5 or more	2.93	8.72	12.94	10.99	9.17	10.57	8.49	6.31	11.04	13.55
Number of other rooms (excluding bathrooms)										
1	3.23	8.63	11.10	9.91	8.77	8.38	9.81	10.06	12.03	12.83
2	1.53	4.22	4.39	4.90	3.22	4.11	5.55	5.58	7.63	9.74
3	1.28	3.55	4.08	4.36	4.36	4.08	4.13	3.78	5.60	6.87
4	1.51	3.83	4.79	4.76	3.85	5.04	4.61	3.93	9.31	9.53
5 or more	1.32	3.43	5.63	5.32	4.94	3.48	3.75	3.34	6.62	6.54
Number of full bathrooms										
0	26.23	63.37	89.54	74.28	49.88	50.95	71.66	81.57	100.94	101.22
1	0.88	1.51	2.51	2.68	1.88	2.57	5.21	5.11	8.48	11.00
2	0.79	2.96	4.34	3.52	2.00	1.85	1.81	1.94	4.48	5.90
3 or more	1.67	6.57	9.07	7.64	6.82	5.75	4.15	2.87	6.98	7.11

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Relative standard errors (RSEs) for Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Number of half bathrooms										
0	0.58	1.20	1.57	1.50	1.41	1.51	1.84	1.62	3.74	4.46
1	1.57	4.02	5.01	4.59	3.68	3.65	3.68	3.17	5.80	7.00
2 or more	5.06	15.44	22.12	18.58	13.34	13.91	11.05	11.77	17.67	29.47
Basement										
Yes	0.64	2.15	2.78	4.03	3.18	3.32	3.23	3.15	7.82	9.16
Finished basement	1.13	4.33	4.15	4.27	4.31	4.36	4.69	3.85	8.47	12.33
Unfinished basement	1.50	3.04	4.55	8.10	6.22	7.43	7.83	5.98	14.45	15.42
No	0.49	2.92	2.43	2.52	2.24	2.97	2.31	2.38	5.30	5.45
Not asked (apartments and mobile homes)	0.00	4.10	7.28	4.49	2.76	2.93	4.18	3.74	5.84	7.47
Attic										
Yes	0.65	2.07	2.54	2.90	2.66	2.70	2.77	2.31	4.89	5.53
Finished attic	3.10	5.36	8.04	10.82	11.55	7.65	11.60	7.69	20.07	13.76
Unfinished attic	0.75	2.61	3.12	3.28	2.93	3.05	3.07	2.66	5.06	5.80
No	1.31	3.53	3.61	4.97	4.02	4.85	4.35	4.70	7.80	7.40
Not asked (apartments and mobile homes)	0.00	4.10	7.28	4.49	2.76	2.93	4.18	3.74	5.84	7.47
Attached garage										
Yes	0.74	5.15	3.42	3.18	2.58	2.45	2.24	2.08	4.47	4.47
1-car garage	2.46	6.75	5.21	5.65	7.19	7.05	8.87	8.51	15.22	17.08
2-car garage	1.22	8.48	5.51	4.45	3.30	3.29	2.59	3.18	5.62	6.20
3 or more car garage	3.67	26.29	21.15	24.22	15.21	9.77	7.81	5.81	8.03	9.44
No	1.17	2.03	2.87	3.22	4.19	4.54	6.39	5.80	8.71	14.75
Not asked (apartments and mobile homes)	0.00	4.10	7.28	4.49	2.76	2.93	4.18	3.74	5.84	7.47
Adequacy of insulation										
Well insulated	1.43	4.64	5.27	5.46	3.85	3.99	3.61	2.96	5.31	4.64
Adequately insulated	0.76	2.18	3.12	2.27	2.03	2.06	2.21	2.22	5.59	8.16
Poorly insulated	1.85	3.25	4.50	4.87	5.38	5.81	7.02	8.52	16.06	19.88
Not insulated	5.49	9.11	13.36	14.55	11.94	21.37	23.52	26.17	29.62	44.10
Home is too drafty during the winter										
Never	0.88	3.64	2.91	3.16	2.63	2.17	2.38	2.10	3.83	4.06
Some of the time	0.87	2.10	3.09	3.04	2.34	2.62	2.57	2.83	6.03	7.29
Most of the time	2.99	5.40	9.00	9.87	7.08	8.38	8.49	10.50	16.40	20.83
All of the time	4.40	9.05	11.81	12.63	10.75	10.74	14.49	16.96	40.40	30.65
Any ceilings higher than 8 feet										
Yes	0.84	2.42	4.78	5.17	3.02	2.54	2.07	1.84	3.80	4.54
No	0.76	2.19	1.64	1.60	1.66	2.00	3.29	4.12	6.04	7.87
Not asked (mobile homes)	0.00	36.55	24.48	15.91	6.65	6.79	5.51	7.71	12.80	16.12

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Relative standard errors (RSEs) for Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Number of windows										
1 to 2	3.87	13.63	22.37	13.43	8.72	6.10	10.14	9.99	17.35	16.12
3 to 5	1.88	7.57	10.11	6.84	5.00	4.35	6.66	5.69	9.82	9.70
6 to 9	1.54	4.36	5.16	4.28	3.36	3.47	4.38	4.65	6.68	8.69
10 to 15	0.97	2.87	3.80	3.73	2.70	4.45	3.52	3.42	5.32	7.69
16 to 19	2.24	5.05	7.07	7.87	6.83	6.58	6.17	6.27	9.63	11.84
20 to 29	2.05	4.38	10.20	8.01	7.60	7.09	7.18	5.29	9.25	11.22
30 or more	3.72	7.50	19.87	16.10	15.53	15.10	8.72	7.58	15.20	21.40
Type of glass in windows										
Single-pane glass	1.08	2.74	3.35	3.09	2.52	2.95	3.74	3.49	7.84	9.76
Double-pane glass	0.61	2.06	2.23	1.97	1.67	1.72	1.79	1.20	3.29	4.51
Triple-pane glass	6.23	18.23	23.74	16.43	14.85	17.92	14.22	16.71	25.81	22.77
Window frame material										
Metal (aluminum)	0.90	4.06	4.72	3.57	2.86	2.42	2.61	2.36	4.25	6.97
Wood	1.09	2.52	3.13	3.67	3.32	3.65	3.27	3.58	7.98	9.24
Vinyl	1.32	4.14	3.56	4.34	3.32	4.25	3.76	3.44	5.89	5.89
Fiberglass	7.57	22.19	21.35	28.63	21.31	20.67	17.43	19.76	27.32	23.77
Composite	5.39	18.98	16.76	15.94	14.46	16.16	16.06	14.02	26.57	19.84
Number of sliding glass or French doors										
0	0.92	1.42	1.87	2.80	2.39	2.97	3.23	2.51	4.70	6.10
1	1.35	5.36	4.53	3.27	2.76	3.83	2.98	2.64	4.92	5.80
2	2.38	8.07	8.62	6.73	4.77	4.80	5.16	4.62	10.90	10.60
3 or more	2.64	9.80	12.09	9.28	6.21	7.05	6.25	8.38	16.61	15.51
Electricity meter is a smart meter										
Yes	1.41	3.46	4.46	4.61	3.49	3.86	4.16	3.77	7.28	7.90
No	1.05	2.68	4.05	3.41	3.25	3.08	3.34	3.20	6.88	8.39
Don't know	0.87	2.44	3.64	2.97	2.39	2.33	2.83	2.31	4.54	5.41
Park a car within 20 feet of electrical outlet										
Yes	0.57	2.37	2.81	2.14	2.05	2.45	1.66	1.91	3.98	4.48
No	1.17	2.73	3.59	3.96	3.34	4.16	4.49	4.41	8.84	11.99
Not asked (apartments in buildings with 5 or more units)	0.00	5.22	10.56	5.45	4.03	4.45	6.83	5.36	6.87	7.33
Own or lease an all-electric or plug-in hybrid electric vehicle										
Yes	5.29	21.01	24.72	25.19	15.92	20.30	20.77	13.77	21.83	23.28
Charge at home	6.49	23.72	25.81	26.23	20.04	21.14	24.06	15.50	24.58	25.15
No	0.08	0.31	0.36	0.29	0.22	0.18	0.29	0.29	2.93	3.39
Natural gas available in neighborhood										
Yes	0.41	0.89	1.07	1.08	1.33	1.60	1.89	1.36	3.68	4.36
Uses natural gas	0.57	1.19	1.56	1.59	1.80	2.09	2.19	1.58	4.34	4.91
Does not use natural gas	2.51	6.65	8.71	7.28	4.45	6.06	7.05	6.37	9.09	15.08
No	1.08	4.96	6.38	4.65	3.12	2.88	3.42	2.58	5.71	5.98

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Relative standard errors (RSEs) for Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Year of construction									
	Total U.S. ^a	Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Distributed solar generation										
Yes	3.96	15.12	15.12	13.00	12.15	10.14	13.63	9.66	17.73	21.18
No	0.16	1.56	1.48	1.78	1.54	1.59	1.64	1.48	4.04	4.10
Not asked (apartments)	0.00	4.06	7.64	4.45	3.37	3.56	5.77	4.65	6.03	7.60
Experienced power outage lasting more than 24 hours										
Yes	1.76	4.50	4.20	4.81	4.86	4.93	4.18	4.69	8.97	9.50
Natural disaster or weather event	2.16	5.32	5.20	5.19	5.24	5.68	4.81	5.52	9.59	11.95
Unable to pay electric bill	21.61	50.85	75.32	72.74	40.66	43.80	57.54	69.90	56.28	100.85
Utility had planned or unplanned blackout	5.22	15.28	18.02	19.46	14.86	13.12	14.26	16.86	30.09	33.77
Other reason for outage	17.58	32.47	39.63	51.34	41.63	39.99	71.12	65.46	0.00	72.27
No	0.40	0.97	1.04	1.19	1.16	1.26	0.91	0.86	3.46	3.60
Back-up generator in home										
Yes	1.83	5.71	6.43	7.15	5.18	6.14	4.98	4.79	7.77	10.13
No	0.31	0.82	0.94	1.27	0.83	1.04	0.93	0.84	3.04	4.36
Swimming pool										
Yes	2.84	11.51	9.18	9.60	7.46	6.91	6.24	6.84	12.53	16.44
No	0.29	1.65	1.56	1.87	1.53	1.77	1.77	1.81	4.05	4.02
Not asked (apartments)	0.00	4.06	7.64	4.45	3.37	3.56	5.77	4.65	6.03	7.60
Months swimming pool is used										
0 to 3	5.86	17.98	15.98	16.13	16.97	17.16	15.44	18.27	35.17	52.35
4 to 7	4.70	13.94	11.93	12.52	10.43	9.94	9.30	10.52	16.75	21.83
8 to 12	7.88	40.79	50.81	27.17	21.55	16.80	13.99	14.60	26.77	38.73
No swimming pool	0.29	1.65	1.56	1.87	1.53	1.77	1.77	1.81	4.05	4.02
Not asked (apartments)	0.00	4.06	7.64	4.45	3.37	3.56	5.77	4.65	6.03	7.60
Heated swimming pool and fuel										
Heated swimming pool	5.05	21.98	19.75	17.52	19.26	11.67	10.27	9.09	19.72	22.78
Electricity	10.05	42.02	52.31	40.55	38.04	21.24	22.21	20.68	29.39	54.03
Natural gas	9.08	24.86	32.66	24.17	26.91	19.96	17.30	16.04	29.33	26.99
Propane	14.72	100.13	70.92	49.34	47.28	41.55	30.31	35.24	58.19	100.99
Some other fuel	12.80	100.13	41.65	44.01	36.14	29.33	32.42	38.64	100.60	100.26
Unheated swimming pool	3.57	13.00	12.08	11.99	8.12	10.09	8.25	9.94	19.26	28.53
No swimming pool	0.29	1.65	1.56	1.87	1.53	1.77	1.77	1.81	4.05	4.02
Not asked (apartments)	0.00	4.06	7.64	4.45	3.37	3.56	5.77	4.65	6.03	7.60

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC2.3 Structural and geographic characteristics of U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Hot tub										
Yes	2.50	8.54	10.84	12.78	7.04	7.74	6.07	5.42	12.14	17.53
No	0.19	0.32	0.62	0.52	0.43	0.60	0.71	0.80	3.18	3.58
Months hot tub is used										
0 to 3	4.05	14.60	18.42	21.56	12.61	14.04	10.89	7.97	15.30	26.44
4 to 7	7.56	29.20	25.53	31.12	19.75	19.44	18.81	17.88	44.03	41.86
8 to 12	4.76	17.58	15.80	16.02	10.78	12.43	10.20	10.83	19.94	23.21
No hot tub	0.19	0.32	0.62	0.52	0.43	0.60	0.71	0.80	3.18	3.58
Hot tub heating fuel										
Electricity	4.25	12.00	13.78	14.37	9.16	11.14	10.79	9.32	18.97	28.93
Natural gas	6.82	29.16	29.52	41.92	20.63	20.49	15.66	13.36	25.75	30.28
Some other fuel	14.27	100.03	48.47	100.22	52.90	37.96	32.92	29.30	40.21	66.03
Hot tub used 0 months	5.39	24.54	22.85	30.44	15.86	18.19	14.83	11.02	22.05	37.20
No hot tub	0.19	0.32	0.62	0.52	0.43	0.60	0.71	0.80	3.18	3.58

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 definition 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 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.

^c 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*.