

Preliminary data release date: March 2022

Final data release date: March 2023

**Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**Number of housing units (million)**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Census region and division</b>						
Northeast	21.92	13.69	8.23	N	N	N
New England	5.88	5.88	N	N	N	N
Middle Atlantic	16.04	7.82	8.23	N	N	N
Midwest	27.04	22.09	4.96	N	N	N
East North Central	18.55	16.96	1.59	N	N	N
West North Central	8.50	5.13	3.37	N	N	N
South	46.84	0.38	23.61	1.02	21.84	N
South Atlantic	24.84	0.38	14.63	N	9.84	N
East South Central	7.38	N	6.16	N	1.22	N
West South Central	14.62	N	2.82	1.02	10.78	N
West	27.72	6.35	N	14.03	0.47	6.87
Mountain	9.22	5.21	N	4.01	N	N
Mountain North	4.62	4.52	N	0.10	N	N
Mountain South	4.60	0.69	N	3.91	N	N
Pacific	18.51	1.14	N	10.02	0.47	6.87
<b>Census urban-rural classification<sup>c</sup></b>						
Urban	100.44	32.94	28.72	14.22	18.31	6.25
Urbanized area	89.24	27.85	25.49	13.35	16.87	5.69
Urban cluster	11.20	5.09	3.23	0.87	1.44	0.57
Rural	23.09	9.57	8.07	0.84	4.00	0.61
<b>Housing unit type</b>						
Single-family detached	77.07	28.04	21.89	9.07	13.98	4.09
Single-family attached	7.45	2.43	2.80	0.90	0.92	0.40
Apartment in buildings with 2–4 units	9.34	3.78	2.72	1.12	1.25	0.48
Apartments in buildings with 5 or more units	22.84	6.74	7.03	3.12	4.37	1.57
Mobile homes	6.83	1.52	2.35	0.83	1.80	0.34
<b>Year of construction</b>						
Before 1950	20.26	10.28	6.02	1.40	1.25	1.31
1950 to 1959	12.48	4.85	3.92	1.79	1.28	0.63
1960 to 1969	12.76	4.32	4.16	1.67	1.82	0.78
1970 to 1979	18.34	6.26	4.69	2.63	3.67	1.09
1980 to 1989	16.30	4.50	5.01	2.35	3.61	0.81
1990 to 1999	17.16	5.21	5.30	2.07	3.69	0.89
2000 to 2009	16.16	4.43	4.83	2.19	3.97	0.74
2010 to 2015	5.53	1.36	1.69	0.55	1.61	0.32
2016 to 2020	4.56	1.28	1.17	0.40	1.41	0.30

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		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Number of stories</b>						
1 story	47.15	13.59	12.86	7.07	11.24	2.38
2 stories	32.47	14.47	10.26	2.61	3.40	1.74
3 or more stories	2.61	1.18	0.88	0.17	0.16	0.22
Split-level	2.28	1.23	0.69	0.12	0.10	0.14
Not asked (apartments and mobile homes)	39.01	12.04	12.10	5.08	7.42	2.38
<b>Major outside wall construction</b>						
Siding (aluminum, fiber cement, vinyl, or steel)	45.44	22.34	15.48	1.31	4.70	1.61
Brick	33.37	9.53	14.61	1.15	7.82	0.25
Wood	18.80	6.90	3.76	2.27	2.88	2.98
Stucco	15.65	1.42	0.96	9.19	2.53	1.55
Concrete block	6.42	0.89	0.81	0.85	3.60	0.27
Shingle (composition)	1.89	0.82	0.53	0.13	0.29	0.12
Stone	1.46	0.45	0.48	0.08	0.40	Q
Some other material	0.50	0.16	0.16	Q	Q	Q
<b>Major roofing material</b>						
Shingles (composition or asphalt)	76.03	29.48	23.13	6.60	12.90	3.93
Metal	9.69	2.89	3.60	0.59	2.30	0.31
Wood shingles or shakes	5.19	1.55	1.52	0.71	1.05	0.36
Ceramic or clay tiles	4.89	0.76	0.55	2.40	0.91	0.27
Concrete tiles	2.14	0.17	0.20	1.18	0.40	0.20
Slate or synthetic slate	1.49	0.57	0.54	0.15	0.18	Q
Some other material	1.26	0.34	0.23	0.30	0.21	0.18
Not asked (apartments in buildings with 5 or more units)	22.84	6.74	7.03	3.12	4.37	1.57
<b>Total number of rooms (excluding bathrooms)</b>						
1 or 2	4.59	1.40	1.37	0.88	0.59	0.35
3	8.73	2.85	2.59	1.21	1.39	0.69
4	15.95	5.02	4.63	2.37	2.88	1.05
5	19.54	6.22	5.87	2.56	3.84	1.04
6	22.10	7.61	6.34	2.79	4.36	1.01
7	18.86	6.37	5.37	2.21	3.75	1.16
8	13.87	5.20	3.84	1.38	2.72	0.72
9 or more	19.90	7.83	6.79	1.66	2.79	0.84

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	Total U.S. <sup>a</sup>	Climate region <sup>b</sup>				
		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Number of bedrooms</b>						
0	1.82	0.48	0.55	0.46	0.21	0.12
1	14.52	4.98	4.27	1.95	2.30	1.03
2	30.67	10.36	8.71	3.95	5.73	1.92
3	48.27	16.52	14.68	5.50	9.22	2.36
4	22.08	7.79	6.40	2.58	4.18	1.13
5 or more	6.16	2.38	2.18	0.62	0.68	0.31
<b>Number of other rooms (excluding bathrooms)</b>						
1	8.41	2.47	2.50	1.41	1.35	0.68
2	27.88	8.74	8.39	4.21	4.81	1.73
3	32.82	10.92	9.25	4.19	6.72	1.73
4	26.77	9.65	7.67	2.87	5.09	1.50
5 or more	27.64	10.73	8.98	2.36	4.34	1.22
<b>Number of full bathrooms</b>						
0	0.15	0.06	Q	N	Q	Q
1	50.32	21.15	14.75	5.30	6.34	2.78
2	56.85	16.19	16.36	7.91	13.10	3.29
3 or more	16.21	5.10	5.63	1.84	2.85	0.78
<b>Number of half bathrooms</b>						
0	86.83	28.01	25.33	11.85	16.73	4.91
1	33.79	13.24	10.44	3.08	5.20	1.84
2 or more	2.91	1.26	1.02	0.13	0.38	0.12
<b>Basement</b>						
Yes	36.83	24.09	10.93	0.53	0.32	0.97
Finished basement	21.71	13.48	7.09	0.27	0.20	0.67
Unfinished basement	15.12	10.61	3.84	0.26	0.12	0.30
No	47.68	6.38	13.76	9.45	14.58	3.52
Not asked (apartments and mobile homes)	39.01	12.04	12.10	5.08	7.42	2.38
<b>Attic</b>						
Yes	56.50	19.12	18.21	5.59	11.19	2.38
Finished attic	7.68	2.41	2.70	0.71	1.53	0.32
Unfinished attic	48.83	16.71	15.51	4.88	9.66	2.07
No	28.01	11.35	6.48	4.39	3.70	2.10
Not asked (apartments and mobile homes)	39.01	12.04	12.10	5.08	7.42	2.38

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**Number of housing units (million)**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Attached garage</b>						
Yes	51.79	17.92	13.51	7.44	9.88	3.04
1-car garage	11.27	3.94	3.55	1.15	2.03	0.61
2-car garage	34.18	11.49	8.77	4.98	6.91	2.04
3 or more car garage	6.34	2.50	1.19	1.31	0.95	0.40
No	32.72	12.55	11.18	2.54	5.01	1.44
Not asked (apartments and mobile homes)	39.01	12.04	12.10	5.08	7.42	2.38
<b>Adequacy of insulation</b>						
Well insulated	34.34	11.84	10.35	3.48	6.77	1.90
Adequately insulated	64.27	22.33	19.52	7.51	11.50	3.42
Poorly insulated	21.29	7.48	5.97	3.40	3.20	1.24
Not insulated	3.63	0.86	0.95	0.67	0.84	0.30
<b>Home is too drafty during the winter</b>						
Never	55.37	16.85	15.59	7.24	12.39	3.30
Some of the time	52.63	19.93	16.38	5.69	7.88	2.76
Most of the time	10.39	3.93	3.08	1.44	1.38	0.57
All of the time	5.14	1.79	1.75	0.69	0.66	0.25
<b>Any ceilings higher than 8 feet</b>						
Yes	55.18	17.72	15.83	7.19	11.16	3.29
No	61.52	23.27	18.61	7.04	9.36	3.24
Not asked (mobile homes)	6.83	1.52	2.35	0.83	1.80	0.34
<b>Number of windows</b>						
1 to 2	6.95	2.23	1.79	1.07	1.32	0.53
3 to 5	18.15	5.03	4.97	3.06	3.84	1.25
6 to 9	29.35	8.65	8.87	4.26	5.90	1.67
10 to 15	38.42	13.98	11.43	3.99	7.01	2.02
16 to 19	13.61	5.42	4.23	1.37	2.04	0.55
20 to 29	12.43	5.23	4.09	0.87	1.63	0.60
30 or more	4.62	1.95	1.41	0.44	0.58	0.24
<b>Type of glass in windows</b>						
Single-pane glass	43.51	12.33	12.44	6.22	10.70	1.81
Double-pane glass	77.95	29.29	23.91	8.64	11.15	4.97
Triple-pane glass	2.07	0.89	0.44	0.20	0.46	0.09

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		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Window frame material</b>						
Metal (aluminum)	47.40	10.10	13.60	8.23	13.16	2.31
Wood	40.31	17.01	12.64	3.45	5.57	1.64
Vinyl	31.85	13.75	9.40	3.08	2.92	2.69
Fiberglass	1.72	0.65	0.53	0.13	0.30	0.11
Composite	2.25	1.00	0.62	0.17	0.35	0.11
<b>Number of sliding glass or French doors</b>						
0	60.38	21.42	21.14	4.95	10.56	2.31
1	39.81	14.48	10.11	5.87	6.58	2.76
2	15.19	4.35	3.86	2.81	2.96	1.21
3 or more	8.16	2.26	1.68	1.42	2.22	0.58
<b>Electricity meter is a smart meter</b>						
Yes	34.30	10.42	9.66	4.90	7.01	2.32
No	36.81	13.68	11.29	4.07	6.28	1.50
Don't know	52.42	18.41	15.85	6.09	9.03	3.05
<b>Park a car within 20 feet of electrical outlet</b>						
Yes	67.83	25.78	18.60	7.81	12.04	3.59
No	32.87	9.98	11.16	4.12	5.90	1.70
Not asked (apartments in buildings with 5 or more units)	22.84	6.74	7.03	3.12	4.37	1.57
<b>Own or lease an all-electric or plug-in hybrid electric vehicle</b>						
Yes	1.82	0.46	0.33	0.46	0.19	0.38
Charge at home	1.39	0.36	0.25	0.38	0.13	0.26
No	121.71	42.05	36.46	14.60	22.12	6.48
<b>Natural gas available in neighborhood</b>						
Yes	89.60	33.24	26.10	13.24	11.39	5.63
Uses natural gas	75.31	29.51	21.46	12.13	7.73	4.48
Does not use natural gas	14.29	3.73	4.64	1.12	3.66	1.15
No	33.93	9.26	10.69	1.81	10.92	1.24
<b>Distributed solar generation</b>						
Yes	3.65	0.99	0.63	1.18	0.44	0.40
No	87.70	31.00	26.41	9.63	16.25	4.42
Not asked (apartments)	32.18	10.52	9.75	4.24	5.62	2.04

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Number of housing units (million)

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Experienced power outage lasting more than 24 hours</b>						
Yes	22.72	7.56	6.83	1.71	5.14	1.49
Natural disaster or weather event	19.00	6.68	5.96	0.73	4.49	1.14
Unable to pay electric bill	0.25	0.11	Q	Q	Q	Q
Utility had planned or unplanned blackout	3.08	0.65	0.69	0.91	0.52	0.32
Other reason for outage	0.39	0.12	0.13	Q	Q	Q
No	100.81	34.95	29.97	13.35	17.17	5.38
<b>Back-up generator in home</b>						
Yes	17.66	7.14	5.05	0.89	3.58	0.99
No	105.87	35.36	31.74	14.17	18.73	5.87
<b>Swimming pool</b>						
Yes	8.52	2.07	2.15	1.59	2.51	0.19
No	82.83	29.91	24.89	9.22	14.18	4.63
Not asked (apartments)	32.18	10.52	9.75	4.24	5.62	2.04
<b>Months swimming pool is used</b>						
0 to 3	1.90	0.71	0.52	0.32	0.30	Q
4 to 7	5.08	1.32	1.47	0.97	1.21	0.10
8 to 12	1.54	Q	0.16	0.30	0.99	Q
No swimming pool	82.83	29.91	24.89	9.22	14.18	4.63
Not asked (apartments)	32.18	10.52	9.75	4.24	5.62	2.04
<b>Heated swimming pool and fuel</b>						
Heated swimming pool	2.88	0.67	0.49	0.60	1.02	0.10
Electricity	0.85	0.16	0.15	0.07	0.45	Q
Natural gas	1.32	0.33	0.23	0.41	0.29	Q
Propane	0.29	0.10	0.07	Q	Q	Q
Some other fuel	0.42	0.07	Q	Q	0.20	Q
Unheated swimming pool	5.64	1.40	1.66	0.99	1.49	0.10
No swimming pool	82.83	29.91	24.89	9.22	14.18	4.63
Not asked (apartments)	32.18	10.52	9.75	4.24	5.62	2.04

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		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	123.53	42.50	36.79	15.06	22.31	6.87
<b>Hot tub</b>						
Yes	8.84	2.87	2.10	1.40	1.81	0.67
No	114.69	39.64	34.69	13.66	20.50	6.20
<b>Months hot tub is used</b>						
0 to 3	4.22	1.21	1.20	0.64	0.94	0.23
4 to 7	1.27	0.45	0.26	0.27	0.24	Q
8 to 12	3.35	1.21	0.64	0.49	0.63	0.38
No hot tub	114.69	39.64	34.69	13.66	20.50	6.20
<b>Hot tub heating fuel</b>						
Electricity	4.41	1.74	0.92	0.56	0.78	0.41
Natural gas	1.47	0.26	0.37	0.47	0.31	0.07
Some other fuel	0.36	0.07	0.08	Q	0.14	Q
Hot tub used 0 months	2.60	0.80	0.73	0.35	0.58	0.14
No hot tub	114.69	39.64	34.69	13.66	20.50	6.20

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.

<sup>a</sup> *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.

<sup>b</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>c</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.

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.

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**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Census region and division</b>						
Northeast	0.00	1.29	2.15	0.00	0.00	0.00
New England	0.00	0.00	0.00	0.00	0.00	0.00
Middle Atlantic	0.00	2.26	2.15	0.00	0.00	0.00
Midwest	0.00	0.49	2.18	0.00	0.00	0.00
East North Central	0.00	0.62	6.58	0.00	0.00	0.00
West North Central	0.00	0.59	0.90	0.00	0.00	0.00
South	0.00	8.76	0.61	9.05	0.71	0.00
South Atlantic	0.00	8.76	0.79	0.00	1.08	0.00
East South Central	0.00	0.00	1.30	0.00	6.55	0.00
West South Central	0.00	0.00	1.67	9.05	0.96	0.00
West	0.00	1.37	0.00	1.21	0.00	2.39
Mountain	0.00	1.13	0.00	1.47	0.00	0.00
Mountain North	0.00	0.51	0.00	23.55	0.00	0.00
Mountain South	0.00	8.61	0.00	1.51	0.00	0.00
Pacific	0.00	6.61	0.00	1.66	0.00	2.39
<b>Census urban-rural classification<sup>c</sup></b>						
Urban	0.28	0.96	1.02	1.34	1.04	2.58
Urbanized area	0.42	1.12	1.15	1.62	1.31	2.84
Urban cluster	2.74	3.44	5.16	12.21	7.48	12.32
Rural	1.23	2.27	2.30	9.28	4.73	10.30
<b>Housing unit type</b>						
Single-family detached	0.00	0.63	1.20	1.93	1.32	3.37
Single-family attached	0.00	3.22	3.64	5.04	6.78	10.49
Apartment in buildings with 2–4 units	0.00	2.67	3.84	6.00	5.59	11.49
Apartments in buildings with 5 or more units	0.00	1.58	2.14	3.53	2.68	6.71
Mobile homes	0.00	3.24	4.24	6.05	5.01	11.57
<b>Year of construction</b>						
Before 1950	0.00	1.50	2.88	5.96	5.57	6.12
1950 to 1959	0.00	1.62	2.57	4.28	6.38	10.20
1960 to 1969	0.00	1.85	3.08	5.43	5.63	9.66
1970 to 1979	0.00	1.72	2.53	3.98	2.73	8.49
1980 to 1989	0.00	1.66	2.63	4.59	3.07	10.72
1990 to 1999	0.00	1.98	3.02	4.39	2.89	8.73
2000 to 2009	0.00	1.56	2.40	3.96	2.83	9.18
2010 to 2015	2.84	5.30	5.35	10.95	5.76	12.73
2016 to 2020	3.44	5.90	7.13	10.92	7.54	13.11



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**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Number of stories</b>						
1 story	0.71	1.75	1.73	2.62	1.72	5.13
2 stories	0.92	1.48	2.30	5.09	4.56	5.12
3 or more stories	5.12	7.60	8.37	22.33	25.33	19.78
Split-level	5.35	7.55	9.81	24.40	26.65	20.49
Not asked (apartments and mobile homes)	0.00	1.07	1.51	2.95	1.97	5.32
<b>Major outside wall construction</b>						
Siding (aluminum, fiber cement, vinyl, or steel)	1.00	1.21	1.83	7.94	4.49	5.59
Brick	1.25	2.47	1.88	8.41	2.45	21.67
Wood	1.71	2.60	4.05	6.40	5.30	3.56
Stucco	1.69	7.18	8.89	2.49	5.23	8.48
Concrete block	4.22	11.08	10.78	9.96	4.74	20.38
Shingle (composition)	7.23	9.69	12.89	29.19	19.01	22.40
Stone	7.06	15.06	11.82	31.94	15.92	46.51
Some other material	13.54	24.81	24.28	41.44	40.72	52.56
<b>Major roofing material</b>						
Shingles (composition or asphalt)	0.47	0.83	1.18	2.87	1.86	3.88
Metal	2.36	4.69	4.08	9.96	6.00	14.46
Wood shingles or shakes	4.40	8.28	5.97	13.04	10.17	19.84
Ceramic or clay tiles	3.55	10.47	12.15	4.74	9.01	17.43
Concrete tiles	6.39	23.18	18.99	7.68	19.02	22.80
Slate or synthetic slate	7.60	12.43	12.35	24.50	22.78	36.55
Some other material	7.69	14.66	17.60	18.47	22.73	19.32
Not asked (apartments in buildings with 5 or more units)	0.00	1.58	2.14	3.53	2.68	6.71
<b>Total number of rooms (excluding bathrooms)</b>						
1 or 2	4.95	8.39	8.22	10.97	13.81	14.99
3	2.52	5.61	5.45	9.77	9.44	10.74
4	2.05	3.97	4.62	6.90	5.84	8.20
5	1.99	2.96	4.25	6.00	5.11	7.54
6	1.80	3.05	3.17	5.85	3.97	8.46
7	1.81	2.74	3.13	5.03	4.64	7.23
8	2.06	3.69	4.38	8.02	5.48	9.74
9 or more	1.53	2.59	2.85	5.45	4.76	8.46

Preliminary data release date: March 2022

Final data release date: March 2023

**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Number of bedrooms</b>						
0	8.69	17.12	15.76	16.22	23.39	24.77
1	1.88	3.61	3.72	6.83	6.48	8.66
2	1.21	2.66	2.32	4.95	3.50	6.04
3	1.16	1.74	1.98	3.46	3.03	5.13
4	1.86	3.24	3.56	5.61	4.27	8.42
5 or more	2.93	4.81	4.94	10.60	11.85	13.70
<b>Number of other rooms (excluding bathrooms)</b>						
1	3.23	6.24	5.81	8.04	8.76	11.61
2	1.53	3.04	2.49	4.30	4.44	5.80
3	1.28	2.33	2.24	4.45	3.21	7.44
4	1.51	2.64	2.80	5.21	4.16	6.53
5 or more	1.32	2.09	2.16	4.54	4.01	8.06
<b>Number of full bathrooms</b>						
0	26.23	32.73	49.43	0.00	70.84	76.94
1	0.88	1.55	1.84	3.30	3.31	4.23
2	0.79	1.74	1.66	2.23	1.93	4.31
3 or more	1.67	3.27	3.20	6.40	4.32	9.17
<b>Number of half bathrooms</b>						
0	0.58	1.28	1.11	1.94	1.51	3.34
1	1.57	2.36	2.04	4.79	4.37	4.86
2 or more	5.06	7.90	7.20	25.72	15.23	29.40
<b>Basement</b>						
Yes	0.64	0.83	2.06	13.74	14.19	7.84
Finished basement	1.13	1.84	2.88	20.60	19.18	9.27
Unfinished basement	1.50	1.99	4.40	20.29	24.63	16.73
No	0.49	2.93	1.54	2.04	1.29	3.68
Not asked (apartments and mobile homes)	0.00	1.07	1.51	2.95	1.97	5.32
<b>Attic</b>						
Yes	0.65	1.17	1.57	3.03	1.91	5.04
Finished attic	3.10	5.71	5.54	11.41	8.45	13.40
Unfinished attic	0.75	1.51	1.92	3.58	2.43	5.55
No	1.31	2.07	2.97	4.07	4.42	5.38
Not asked (apartments and mobile homes)	0.00	1.07	1.51	2.95	1.97	5.32

Preliminary data release date: March 2022

Final data release date: March 2023

**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Attached garage</b>						
Yes	0.74	1.24	1.97	2.31	2.25	4.22
1-car garage	2.46	4.31	4.25	9.02	5.66	11.23
2-car garage	1.22	1.63	2.39	3.57	2.87	5.46
3 or more car garage	3.67	5.00	7.30	7.33	9.02	12.76
No	1.17	1.71	1.94	5.76	3.58	6.18
Not asked (apartments and mobile homes)	0.00	1.07	1.51	2.95	1.97	5.32
<b>Adequacy of insulation</b>						
Well insulated	1.43	2.06	2.93	4.42	3.92	6.54
Adequately insulated	0.76	1.51	1.39	2.69	2.24	5.09
Poorly insulated	1.85	3.02	3.29	4.98	6.44	9.16
Not insulated	5.49	12.30	9.79	15.79	10.56	19.62
<b>Home is too drafty during the winter</b>						
Never	0.88	1.55	1.83	3.17	1.83	4.53
Some of the time	0.87	1.42	1.62	4.03	2.94	5.09
Most of the time	2.99	3.98	5.22	9.77	9.00	12.93
All of the time	4.40	7.50	5.50	14.51	14.80	17.93
<b>Any ceilings higher than 8 feet</b>						
Yes	0.84	1.49	1.89	2.58	2.02	4.50
No	0.76	1.21	1.56	3.22	2.42	4.47
Not asked (mobile homes)	0.00	3.24	4.24	6.05	5.01	11.57
<b>Number of windows</b>						
1 to 2	3.87	6.36	6.65	9.19	9.36	13.57
3 to 5	1.88	4.22	3.49	5.33	4.82	7.02
6 to 9	1.54	3.15	2.36	4.02	3.88	6.75
10 to 15	0.97	1.53	2.16	4.08	3.33	5.44
16 to 19	2.24	3.43	4.41	8.30	6.99	10.51
20 to 29	2.05	2.46	3.86	9.10	7.11	11.81
30 or more	3.72	6.18	6.86	17.25	11.05	19.42
<b>Type of glass in windows</b>						
Single-pane glass	1.08	2.38	2.26	3.57	2.40	6.70
Double-pane glass	0.61	1.06	1.39	2.26	2.31	3.92
Triple-pane glass	6.23	7.15	12.66	25.82	16.88	33.47

Preliminary data release date: March 2022

Final data release date: March 2023

**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Window frame material</b>						
Metal (aluminum)	0.90	2.24	2.08	2.85	1.70	6.19
Wood	1.09	1.78	1.97	5.22	3.84	7.47
Vinyl	1.32	1.81	2.62	6.04	5.64	5.15
Fiberglass	7.57	10.98	11.48	31.58	20.08	25.26
Composite	5.39	9.43	10.16	22.84	17.01	23.89
<b>Number of sliding glass or French doors</b>						
0	0.92	1.54	1.53	4.11	2.18	4.73
1	1.35	1.92	2.32	3.47	3.88	5.21
2	2.38	4.49	3.98	5.48	5.70	8.91
3 or more	2.64	5.31	5.57	6.84	6.01	12.06
<b>Electricity meter is a smart meter</b>						
Yes	1.41	2.52	2.57	4.20	3.34	7.02
No	1.05	1.96	2.06	4.81	3.28	7.53
Don't know	0.87	1.40	1.68	3.57	2.79	4.21
<b>Park a car within 20 feet of electrical outlet</b>						
Yes	0.57	1.00	1.41	2.48	2.03	3.75
No	1.17	2.54	2.31	4.05	3.49	7.50
Not asked (apartments in buildings with 5 or more units)	0.00	1.58	2.14	3.53	2.68	6.71
<b>Own or lease an all-electric or plug-in hybrid electric vehicle</b>						
Yes	5.29	12.50	14.38	12.11	20.65	14.23
Charge at home	6.49	13.03	16.31	15.09	23.25	19.21
No	0.08	0.51	0.79	1.24	0.70	2.38
<b>Natural gas available in neighborhood</b>						
Yes	0.41	0.90	1.23	1.48	2.31	3.11
Uses natural gas	0.57	1.00	1.41	1.52	2.82	3.82
Does not use natural gas	2.51	4.50	4.46	9.66	5.45	7.64
No	1.08	2.49	2.43	6.08	2.23	7.91
<b>Distributed solar generation</b>						
Yes	3.96	6.30	10.78	7.79	13.49	12.70
No	0.16	0.63	1.08	1.72	1.07	3.08
Not asked (apartments)	0.00	1.17	1.77	3.02	2.21	5.72

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**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Experienced power outage lasting more than 24 hours</b>						
Yes	1.76	2.44	3.20	7.35	4.47	7.30
Natural disaster or weather event	2.16	2.87	3.44	12.36	4.89	8.88
Unable to pay electric bill	21.61	27.10	39.01	100.46	53.01	71.37
Utility had planned or unplanned blackout	5.22	12.51	11.96	10.31	13.96	20.67
Other reason for outage	17.58	27.79	27.42	46.63	44.37	71.92
No	0.40	0.75	1.01	1.47	1.34	2.92
<b>Back-up generator in home</b>						
Yes	1.83	2.95	3.41	10.61	4.06	6.73
No	0.31	0.80	0.80	1.32	1.13	2.74
<b>Swimming pool</b>						
Yes	2.84	6.64	5.83	6.29	6.02	23.44
No	0.29	0.77	1.17	1.98	1.37	3.04
Not asked (apartments)	0.00	1.17	1.77	3.02	2.21	5.72
<b>Months swimming pool is used</b>						
0 to 3	5.86	8.79	13.18	14.68	16.78	47.08
4 to 7	4.70	9.06	7.18	8.94	9.97	30.18
8 to 12	7.88	35.24	22.23	18.07	10.76	39.33
No swimming pool	0.29	0.77	1.17	1.98	1.37	3.04
Not asked (apartments)	0.00	1.17	1.77	3.02	2.21	5.72
<b>Heated swimming pool and fuel</b>						
Heated swimming pool	5.05	11.79	12.54	12.23	8.25	26.44
Electricity	10.05	21.86	21.53	32.63	12.34	100.24
Natural gas	9.08	17.66	17.61	14.99	17.26	39.64
Propane	14.72	22.31	30.66	47.17	32.76	100.36
Some other fuel	12.80	29.09	37.06	31.72	22.86	49.95
Unheated swimming pool	3.57	7.15	5.80	6.98	9.02	30.49
No swimming pool	0.29	0.77	1.17	1.98	1.37	3.04
Not asked (apartments)	0.00	1.17	1.77	3.02	2.21	5.72

Preliminary data release date: March 2022

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**Relative standard errors (RSEs) for Table HC2.6 Structural and geographic characteristics of U.S. homes, by climate region, 2020**

**RSEs for number of housing units**

	Climate region <sup>b</sup>					
	Total U.S. <sup>a</sup>	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
<b>All homes</b>	0.00	0.54	0.77	1.23	0.69	2.39
<b>Hot tub</b>						
Yes	2.50	4.67	5.42	8.12	6.21	9.57
No	0.19	0.66	0.88	1.54	0.98	2.57
<b>Months hot tub is used</b>						
0 to 3	4.05	6.93	8.21	12.40	10.87	18.86
4 to 7	7.56	14.40	14.65	15.87	21.42	32.05
8 to 12	4.76	6.98	9.86	13.54	11.67	13.05
No hot tub	0.19	0.66	0.88	1.54	0.98	2.57
<b>Hot tub heating fuel</b>						
Electricity	4.25	6.42	8.34	12.90	10.04	12.43
Natural gas	6.82	16.27	13.54	14.89	18.66	27.16
Some other fuel	14.27	25.34	32.55	60.51	23.32	44.77
Hot tub used 0 months	5.39	9.17	8.68	17.69	13.71	25.02
No hot tub	0.19	0.66	0.88	1.54	0.98	2.57

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.

<sup>a</sup> *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.

<sup>b</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>c</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.