

Table HC10.5 Total square footage of West homes, 2020

	Number of housing units (million)	Total square footage (billion square feet)		
	Total West ^a	Total ^b	Heated	Cooled
All homes	27.72	45.74	40.29	29.93
Census division				
Mountain	9.22	17.04	16.00	13.29
Mountain North	4.62	9.30	8.94	6.65
Mountain South	4.60	7.74	7.06	6.64
Pacific	18.51	28.70	24.29	16.65
Census urban/rural classification^c				
Urban	25.24	40.31	35.22	26.65
Urbanized area	22.74	36.27	31.62	24.42
Urban cluster	2.50	4.04	3.60	2.23
Rural	2.48	5.43	5.07	3.28
Climate region^d				
Very cold/Cold	6.35	12.37	11.83	8.22
Mixed-humid	N	N	N	N
Mixed-dry/Hot-dry	14.03	21.66	18.61	16.82
Hot-humid	0.47	0.69	0.03	0.22
Marine	6.87	11.02	9.83	4.67
Housing unit type				
Single-family detached	16.97	35.21	31.61	23.94
Single-family attached	1.69	2.28	1.90	1.41
Apartments in buildings with 2–4 units	1.89	1.66	1.32	0.75
Apartments in buildings with 5 or more units	5.70	4.86	3.86	2.71
Mobile homes	1.47	1.73	1.60	1.13
Year of construction				
Before 1950	3.27	4.97	4.03	1.93
1950 to 1959	2.73	4.18	3.57	2.33
1960 to 1969	2.95	4.25	3.60	2.44
1970 to 1979	4.71	7.17	6.21	4.34
1980 to 1989	3.95	6.20	5.59	4.20
1990 to 1999	4.05	7.24	6.61	5.24
2000 to 2009	3.89	7.63	6.93	6.23
2010 to 2015	1.16	2.20	1.98	1.75
2016 to 2020	1.02	1.90	1.78	1.48

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	Number of housing units (million)	Total square footage (billion square feet)		
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All homes	27.72	45.74	40.29	29.93
Number of stories				
1 story	11.55	20.70	18.06	13.95
2 stories	6.02	14.18	13.02	9.85
3 or more stories	0.62	1.60	1.51	0.91
Split-level	0.47	1.00	0.93	0.64
Not asked (apartments and mobile homes)	9.06	8.25	6.78	4.58
Fuels used for any use (more than one may apply)				
Electricity	27.72	45.74	40.29	29.93
Natural gas	20.53	35.53	31.70	24.43
Propane ^e	1.66	3.10	2.84	1.91
Wood	2.75	5.44	5.07	3.12
Fuel oil or kerosene	0.15	0.26	0.22	Q
Distributed solar generation				
Yes	1.97	4.52	4.04	3.53
No	18.16	34.69	31.07	22.95
Not asked (apartments)	7.59	6.53	5.18	3.46
Main space heating fuel				
Natural gas	16.13	30.09	28.54	21.18
Electricity	7.62	9.90	9.05	6.09
Fuel oil or kerosene	0.11	0.19	0.18	Q
Propane	0.72	1.50	1.42	0.92
Wood	0.67	1.19	1.10	0.46
Some other fuel ^f	N	N	N	N
Do not use heating equipment	2.47	2.87	0.00	1.26
Air-conditioning equipment				
Uses air-conditioning equipment	20.65	35.55	31.92	29.93
Does not use air-conditioning equipment	7.07	10.18	8.37	0.00
Fuel used by main water heater				
Natural gas	17.63	31.10	27.73	21.55
Electricity	8.94	12.47	10.79	7.14
Propane	0.92	1.81	1.63	1.09
Fuel oil or kerosene	0.07	0.09	0.08	Q
Some other fuel ^f	0.17	0.27	0.07	0.12

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	Number of housing units (million)	Total square footage (billion square feet)		
	Total West ^a	Total ^b	Heated	Cooled
All homes	27.72	45.74	40.29	29.93
Indoor light bulbs used at least 4 hours a day				
0 to 2	11.33	16.48	13.82	10.27
3 to 5	6.59	10.39	9.18	6.73
6 to 9	5.11	8.74	7.87	5.86
10 to 19	3.67	7.59	7.06	5.31
20 or more	1.03	2.54	2.36	1.77
Total number of rooms (excluding bathrooms)				
1 or 2	1.50	0.89	0.72	0.51
3	2.18	1.68	1.27	0.77
4	4.24	4.20	3.29	2.28
5	4.24	5.64	4.86	3.40
6	4.63	7.41	6.49	4.73
7	4.21	8.05	7.17	5.22
8	2.78	6.23	5.68	4.52
9 or more	3.95	11.64	10.81	8.49
Number of bedrooms				
0	0.62	0.33	0.28	0.20
1	3.57	2.63	2.05	1.23
2	7.18	8.46	6.96	4.70
3	9.72	17.16	15.35	11.28
4	4.96	11.80	10.76	8.48
5 or more	1.67	5.35	4.89	4.05
Basement				
Yes	4.00	10.56	9.27	6.37
Finished basement	2.99	8.01	7.38	5.08
Unfinished basement	1.01	2.55	1.89	1.28
No	14.66	26.92	24.25	18.98
Not asked (apartments and mobile homes)	9.06	8.25	6.78	4.58
Adequacy of insulation				
Well insulated	7.20	14.26	13.11	10.29
Adequately insulated	13.84	22.77	20.25	15.47
Poorly insulated	5.50	7.43	6.19	3.82
No insulation	1.18	1.27	0.74	0.35

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	Number of housing units (million)	Total square footage (billion square feet)		
	Total West ^a	Total ^b	Heated	Cooled
All homes	27.72	45.74	40.29	29.93
Type of glass in windows				
Single-pane glass	9.51	12.02	9.62	6.80
Double-pane glass	17.76	32.68	29.70	22.41
Triple-pane glass	0.45	1.03	0.97	0.72
Number of household members				
1 member	7.23	9.00	7.78	5.18
2 members	9.31	16.27	14.65	10.96
3 members	4.12	7.00	6.26	4.61
4 members	4.08	7.78	6.74	5.18
5 members	1.71	3.15	2.81	2.25
6 or more members	1.28	2.54	2.06	1.75
2020 annual household income				
Less than \$5,000	0.90	0.94	0.81	0.52
\$5,000 to \$9,999	0.72	0.71	0.56	0.36
\$10,000 to \$19,999	2.03	2.35	1.93	1.19
\$20,000 to \$39,999	5.26	7.12	6.03	4.17
\$40,000 to \$59,999	4.32	6.65	5.71	4.03
\$60,000 to \$99,999	6.30	10.59	9.39	7.10
\$100,000 to \$149,999	4.06	7.73	7.04	5.61
\$150,000 or more	4.13	9.66	8.82	6.95

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	Number of housing units (million)	Total square footage (billion square feet)		
		Total West ^a	Total ^b	Heated
All homes	27.72	45.74	40.29	29.93
Ownership of housing unit^g				
Owned	17.40	34.89	31.53	23.96
Rented	10.33	10.85	8.76	5.97

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 West* includes all primary occupied housing units in the West Census Region. 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 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.

^d 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*.

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

^f *Some other fuel* includes coal and district steam.

^g *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.

Table HC10.5 Total square footage of West homes, 2020

	Percentage of all housing units		Percentage of total square footage	
	Total West ^a	Total ^b	Heated	Cooled
All homes	100.00	100.00	100.00	100.00
Census division				
Mountain	33.25	37.25	39.71	44.39
Mountain North	16.65	20.34	22.20	22.22
Mountain South	16.60	16.91	17.51	22.17
Pacific	66.75	62.75	60.29	55.61
Census urban/rural classification^c				
Urban	91.04	88.13	87.41	89.03
Urbanized area	82.03	79.30	78.49	81.58
Urban cluster	9.01	8.83	8.92	7.45
Rural	8.96	11.87	12.59	10.97
Climate region^d				
Very cold/Cold	22.91	27.04	29.35	27.47
Mixed-humid	N	N	N	N
Mixed-dry/Hot-dry	50.62	47.36	46.18	56.20
Hot-humid	1.71	1.51	0.06	0.73
Marine	24.76	24.09	24.41	15.60
Housing unit type				
Single-family detached	61.23	76.98	78.47	79.96
Single-family attached	6.09	4.98	4.71	4.72
Apartments in buildings with 2–4 units	6.80	3.64	3.27	2.50
Apartments in buildings with 5 or more units	20.57	10.63	9.59	9.05
Mobile homes	5.31	3.77	3.97	3.76
Year of construction				
Before 1950	11.78	10.86	9.99	6.44
1950 to 1959	9.86	9.15	8.86	7.79
1960 to 1969	10.63	9.28	8.93	8.15
1970 to 1979	16.98	15.68	15.40	14.48
1980 to 1989	14.24	13.56	13.87	14.04
1990 to 1999	14.59	15.83	16.41	17.51
2000 to 2009	14.03	16.69	17.20	20.82
2010 to 2015	4.19	4.80	4.91	5.84
2016 to 2020	3.69	4.15	4.42	4.94

Table HC10.5 Total square footage of West homes, 2020

	Percentage of all housing units		Percentage of total square footage	
	Total West ^a	Total ^b	Heated	Cooled
All homes	100.00	100.00	100.00	100.00
Number of stories				
1 story	41.67	45.26	44.83	46.59
2 stories	21.72	31.01	32.31	32.92
3 or more stories	2.22	3.49	3.75	3.05
Split-level	1.70	2.20	2.30	2.12
Not asked (apartments and mobile homes)	32.69	18.04	16.82	15.32
Fuels used for any use (more than one may apply)				
Electricity	100.00	100.00	100.00	100.00
Natural gas	74.05	77.68	78.68	81.61
Propane ^e	5.98	6.78	7.04	6.37
Wood	9.93	11.89	12.59	10.41
Fuel oil or kerosene	0.56	0.56	0.55	Q
Distributed solar generation				
Yes	7.11	9.89	10.02	11.78
No	65.51	75.84	77.13	76.66
Not asked (apartments)	27.38	14.27	12.85	11.55
Main space heating fuel				
Natural gas	58.17	65.78	70.83	70.74
Electricity	27.50	21.64	22.47	20.33
Fuel oil or kerosene	0.41	0.42	0.46	Q
Propane	2.60	3.27	3.52	3.09
Wood	2.41	2.60	2.73	1.55
Some other fuel ^f	N	N	N	N
Do not use heating equipment	8.91	6.29	0.00	4.22
Air-conditioning equipment				
Uses air-conditioning equipment	74.48	77.73	79.23	100.00
Does not use air-conditioning equipment	25.52	22.26	20.77	0.00
Fuel used by main water heater				
Natural gas	63.58	67.99	68.82	71.99
Electricity	32.25	27.26	26.77	23.86
Propane	3.30	3.96	4.04	3.66
Fuel oil or kerosene	0.26	0.20	0.19	Q
Some other fuel ^f	0.61	0.58	0.18	0.40

Table HC10.5 Total square footage of West homes, 2020

	Percentage of all housing units		Percentage of total square footage	
	Total West ^a	Total ^b	Heated	Cooled
All homes	100.00	100.00	100.00	100.00
Indoor light bulbs used at least 4 hours a day				
0 to 2	40.85	36.03	34.31	34.30
3 to 5	23.78	22.72	22.80	22.47
6 to 9	18.42	19.10	19.53	19.58
10 to 19	13.23	16.60	17.52	17.73
20 or more	3.73	5.55	5.85	5.91
Total number of rooms (excluding bathrooms)				
1 or 2	5.40	1.94	1.79	1.71
3	7.87	3.68	3.15	2.59
4	15.28	9.17	8.16	7.62
5	15.31	12.33	12.07	11.36
6	16.70	16.19	16.10	15.81
7	15.19	17.61	17.81	17.43
8	10.01	13.62	14.10	15.11
9 or more	14.24	25.45	26.83	28.37
Number of bedrooms				
0	2.25	0.73	0.70	0.66
1	12.88	5.76	5.10	4.10
2	25.91	18.49	17.27	15.70
3	35.04	37.51	38.10	37.67
4	17.91	25.81	26.70	28.33
5 or more	6.02	11.70	12.14	13.54
Basement				
Yes	14.42	23.09	23.00	21.27
Finished basement	10.80	17.51	18.32	16.98
Unfinished basement	3.63	5.58	4.68	4.29
No	52.89	58.87	60.18	63.41
Not asked (apartments and mobile homes)	32.69	18.04	16.82	15.32
Adequacy of insulation				
Well insulated	25.97	31.19	32.54	34.37
Adequately insulated	49.92	49.79	50.25	51.69
Poorly insulated	19.85	16.24	15.38	12.76
No insulation	4.26	2.78	1.83	1.19

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	Percentage of all housing units		Percentage of total square footage	
	Total West ^a	Total ^b	Heated	Cooled
All homes	100.00	100.00	100.00	100.00
Type of glass in windows				
Single-pane glass	34.32	26.28	23.88	22.71
Double-pane glass	64.05	71.46	73.72	74.87
Triple-pane glass	1.63	2.26	2.41	2.42
Number of household members				
1 member	26.07	19.68	19.30	17.31
2 members	33.58	35.56	36.36	36.60
3 members	14.85	15.31	15.53	15.40
4 members	14.71	17.02	16.72	17.31
5 members	6.17	6.89	6.98	7.52
6 or more members	4.62	5.54	5.11	5.85
2020 annual household income				
Less than \$5,000	3.24	2.05	2.01	1.73
\$5,000 to \$9,999	2.61	1.54	1.39	1.20
\$10,000 to \$19,999	7.32	5.14	4.80	3.98
\$20,000 to \$39,999	18.98	15.56	14.96	13.93
\$40,000 to \$59,999	15.57	14.53	14.17	13.46
\$60,000 to \$99,999	22.74	23.15	23.30	23.73
\$100,000 to \$149,999	14.64	16.90	17.48	18.74
\$150,000 or more	14.90	21.13	21.90	23.23

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	Total West ^a	Total ^b	Heated	Cooled
All homes	100.00	100.00	100.00	100.00
Ownership of housing unit^g				
Owned	62.75	76.28	78.26	80.05
Rented	37.25	23.72	21.74	19.95

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 West* includes all primary occupied housing units in the West Census Region. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

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N = No households in reporting sample.

Data release date: March 2023

Relative standard errors (RSEs) for Table HC10.5 Total square footage of West homes, 2020

	RSEs for number of housing units (million)	RSEs for total square footage		
	Total West ^a	Total ^b	Heated	Cooled
All homes	0.00	0.59	0.72	1.25
Census division				
Mountain	0.00	1.06	1.13	1.61
Mountain North	0.00	1.63	1.66	2.54
Mountain South	0.00	1.34	1.56	1.68
Pacific	0.00	0.95	1.15	1.94
Census urban/rural classification^c				
Urban	0.58	1.02	1.16	1.56
Urbanized area	0.81	1.21	1.42	1.71
Urban cluster	5.53	5.65	5.96	8.04
Rural	5.87	5.98	6.15	6.94
Climate region^d				
Very cold/Cold	1.37	1.92	1.83	2.48
Mixed-humid	0.00	0.00	0.00	0.00
Mixed-dry/Hot-dry	1.21	1.68	1.79	2.13
Hot-humid	0.00	3.65	26.89	8.30
Marine	2.39	3.09	2.98	5.02
Housing unit type				
Single-family detached	0.00	0.72	0.76	1.40
Single-family attached	0.00	2.39	3.33	5.23
Apartment in buildings with 2–4 units	0.00	2.72	5.30	8.19
Apartment in buildings with 5 or more units	0.00	1.33	2.70	3.66
Mobile homes	0.00	2.70	3.72	6.34
Year of construction				
Before 1950	0.00	3.59	3.88	7.34
1950 to 1959	0.00	2.83	3.84	5.50
1960 to 1969	0.00	3.40	3.88	6.09
1970 to 1979	0.00	2.29	2.38	4.01
1980 to 1989	0.00	2.72	3.24	4.11
1990 to 1999	0.00	2.19	2.40	3.20
2000 to 2009	0.00	2.81	3.27	3.38
2010 to 2015	5.40	6.64	7.13	7.40
2016 to 2020	6.14	7.39	7.59	8.71

Relative standard errors (RSEs) for Table HC10.5 Total square footage of West homes, 2020

	RSEs for number of housing units (million)		RSEs for total square footage	
	Total West ^a	Total ^b	Heated	Cooled
All homes	0.00	0.59	0.72	1.25
Number of stories				
1 story	1.27	1.53	1.54	1.96
2 stories	2.28	2.59	2.55	3.05
3 or more stories	9.25	10.12	10.20	14.24
Split-level	10.47	10.42	10.41	12.59
Not asked (apartments and mobile homes)	0.00	0.97	2.09	3.20
Fuels used for any use (more than one may apply)				
Electricity	0.00	0.59	0.72	1.25
Natural gas	0.89	1.08	1.14	1.59
Propane ^e	6.86	6.95	6.96	8.54
Wood	4.75	5.21	4.98	7.11
Fuel oil or kerosene	15.22	16.07	14.16	50.88
Distributed solar generation				
Yes	5.19	5.81	6.25	7.06
No	0.56	0.98	1.06	1.40
Not asked (apartments)	0.00	1.14	2.59	3.66
Main space heating fuel				
Natural gas	1.30	1.38	1.35	1.84
Electricity	2.75	3.14	3.19	4.36
Fuel oil or kerosene	17.12	16.32	15.84	53.95
Propane	10.97	11.76	11.19	13.54
Wood	12.40	11.69	12.16	18.76
Some other fuel ^f	0.00	0.00	0.00	0.00
Do not use heating equipment	6.32	6.68	0.00	9.97
Air-conditioning equipment				
Uses air-conditioning equipment	1.02	1.16	1.21	1.25
Does not use air-conditioning equipment	2.97	3.45	3.61	0.00
Fuel used by main water heater				
Natural gas	1.13	1.21	1.23	1.69
Electricity	2.17	2.52	2.94	3.74
Propane	8.94	10.22	10.37	12.57
Fuel oil or kerosene	26.07	22.55	17.06	64.77
Some other fuel ^f	17.76	14.81	35.58	24.53

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	Total West ^a	Total ^b	Heated	Cooled
All homes	0.00	0.59	0.72	1.25
Indoor light bulbs used at least 4 hours a day				
0 to 2	2.21	2.36	2.67	3.00
3 to 5	2.93	3.15	3.43	4.35
6 to 9	3.40	3.72	3.67	4.22
10 to 19	4.87	5.34	5.21	5.61
20 or more	7.30	8.14	8.00	9.76
Total number of rooms (excluding bathrooms)				
1 or 2	8.27	8.97	9.04	11.02
3	6.01	5.92	7.16	9.03
4	4.04	4.07	4.65	5.47
5	3.76	4.46	4.55	5.57
6	4.02	4.60	4.73	5.62
7	3.80	4.05	4.22	4.49
8	5.21	5.36	5.62	6.08
9 or more	3.11	3.27	3.14	4.18
Number of bedrooms				
0	14.15	14.95	17.35	18.48
1	4.01	4.62	5.36	6.29
2	2.71	3.03	3.54	4.69
3	2.31	2.51	2.64	2.67
4	3.77	3.98	3.90	4.17
5 or more	4.67	5.20	5.89	6.46
Basement				
Yes	3.00	3.34	3.18	4.11
Finished basement	3.41	3.72	3.64	4.96
Unfinished basement	7.98	8.87	9.16	11.53
No	0.82	1.31	1.42	1.89
Not asked (apartments and mobile homes)	0.00	0.97	2.09	3.20
Adequacy of insulation				
Well insulated	2.56	2.62	2.51	3.24
Adequately insulated	1.53	1.62	1.76	2.16
Poorly insulated	3.65	4.13	4.39	5.03
No insulation	9.50	9.97	13.72	13.70

Relative standard errors (RSEs) for Table HC10.5 Total square footage of West homes, 2020

	RSEs for number of housing units (million)	RSEs for total square footage		
	Total West ^a	Total ^b	Heated	Cooled
All homes	0.00	0.59	0.72	1.25
Type of glass in windows				
Single-pane glass	2.74	3.01	3.46	4.30
Double-pane glass	1.50	1.37	1.40	1.86
Triple-pane glass	14.15	15.24	16.15	18.47
Number of household members				
1 member	3.10	3.33	3.67	4.09
2 members	2.87	2.82	2.90	3.60
3 members	5.32	5.27	5.35	5.47
4 members	4.26	5.04	5.11	5.68
5 members	6.30	6.20	6.41	8.39
6 or more members	8.85	8.66	10.22	9.66
2020 annual household income				
Less than \$5,000	9.77	10.52	11.09	13.37
\$5,000 to \$9,999	14.97	14.96	16.64	22.29
\$10,000 to \$19,999	6.11	6.89	7.32	9.48
\$20,000 to \$39,999	3.64	4.01	4.12	5.65
\$40,000 to \$59,999	4.01	4.08	4.02	4.91
\$60,000 to \$99,999	2.99	2.99	3.06	3.84
\$100,000 to \$149,999	4.08	4.11	4.27	4.87
\$150,000 or more	4.34	4.59	4.41	5.39

Relative standard errors (RSEs) for Table HC10.5 Total square footage of West homes, 2020

	RSEs for number of housing units (million)	RSEs for total square footage		
	Total West ^a	Total ^b	Heated	Cooled
All homes	0.00	0.59	0.72	1.25
Ownership of housing unit^c				
Owned	0.92	1.19	1.23	1.73
Rented	1.55	2.88	3.62	4.82

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 West* includes all primary occupied housing units in the West Census Region. 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 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.

^d 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*.

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

^f *Some other fuel* includes coal and district steam.

^g *Rented* includes households that occupy their primary housing unit without paying rent.