

Preliminary data release date: May 2022

Final data release date: March 2023

Table HC6.6 Space heating in U.S. homes, by climate region, 2020

Number of housing units (million)

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Space heating equipment						
Uses space heating equipment	117.74	42.34	36.41	13.40	19.08	6.49
Has space heating equipment but does not use it	3.92	0.11	0.21	1.23	2.04	0.33
Does not have space heating equipment	1.87	0.05	0.17	0.42	1.19	Q
Main heating fuel and equipment						
Natural gas	62.71	27.24	17.90	9.00	5.04	3.54
Central warm-air furnace	53.26	23.09	14.36	7.92	4.78	3.11
Steam or hot water system	6.51	3.41	2.89	Q	Q	0.12
Built-in room heater	2.77	0.67	0.60	1.00	0.20	0.29
Some other equipment	0.18	0.07	0.06	Q	Q	Q
Electricity	42.57	7.70	14.77	3.90	13.58	2.62
Central warm-air furnace	13.82	2.31	4.68	1.18	5.15	0.49
Heat pump	16.13	1.36	6.98	1.20	6.14	0.46
Ductless heat pump (mini-split)	1.06	0.20	0.35	0.16	0.19	0.16
Built-in electric units	7.65	3.15	1.81	0.49	0.98	1.21
Portable electric heaters	3.03	0.22	0.72	0.87	0.98	0.25
Some other equipment	0.89	0.45	0.24	Q	0.15	Q
Fuel oil or kerosene	4.93	3.31	1.58	Q	N	Q
Central warm-air furnace	3.10	2.15	0.91	Q	N	Q
Steam or hot water system	1.62	1.05	0.57	N	N	N
Some other equipment	0.21	0.10	0.10	N	N	Q
Propane	5.21	2.93	1.50	0.33	0.36	0.09
Central warm-air furnace	4.03	2.36	1.12	0.24	0.23	0.08
Some other equipment	1.18	0.56	0.39	Q	0.13	Q
Wood	2.25	1.13	0.63	0.17	0.10	0.21
Heating stove	1.94	0.93	0.56	0.17	Q	0.21
Some other equipment	0.31	0.20	0.08	N	Q	N
Some other fuel ^c	Q	Q	Q	N	N	N
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37

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Number of housing units (million)

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Main heating equipment (including all fuels)						
Central warm-air furnace	74.42	30.04	21.13	9.36	10.19	3.70
Heat pump	16.13	1.36	6.98	1.20	6.14	0.46
Steam or hot water system	9.29	5.37	3.60	0.08	Q	0.17
Ductless heat pump (mini-split)	1.06	0.20	0.35	0.16	0.19	0.16
Built-in electric units	7.65	3.15	1.81	0.49	0.98	1.21
Built-in oil or gas room heater	3.49	0.88	0.95	1.07	0.29	0.30
Portable electric heaters	3.03	0.22	0.72	0.87	0.98	0.25
Heating stove burning wood	1.94	0.93	0.56	0.17	Q	0.21
Some other equipment	0.74	0.18	0.32	Q	0.18	Q
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37
Main heating equipment age						
Less than 2 years old	13.29	3.85	3.94	1.54	3.26	0.70
2 to 4 years old	17.19	5.24	5.31	2.23	3.58	0.82
5 to 9 years old	26.77	8.77	8.99	2.68	4.89	1.43
10 to 14 years old	22.29	8.52	6.91	2.35	3.38	1.13
15 to 19 years old	14.66	5.63	4.42	1.71	2.13	0.78
20 or more years old	23.54	10.32	6.84	2.91	1.83	1.63
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37
Has thermostat						
Yes	109.45	39.70	32.02	12.20	19.93	5.60
Smart or internet-connected thermostat	12.78	4.13	3.21	2.01	2.62	0.81
Programmable thermostat	52.59	18.64	15.46	6.13	9.57	2.79
Non-programmable thermostat	44.08	16.93	13.35	4.06	7.74	2.00
No	12.73	2.73	4.65	2.32	2.03	1.00
Does not use heating or air-conditioning equipment	1.35	0.07	0.12	0.54	0.35	0.27
Main heating equipment control						
Sets one temperature and leaves it there most of the time	50.69	19.17	17.37	4.28	8.33	1.53
Manually adjusts the temperature	31.04	11.42	8.68	3.61	5.50	1.82
Programmable or smart thermostat automatically adjusts the temperature	19.79	8.30	5.17	2.14	2.62	1.56
Turns equipment on or off as needed	12.06	2.38	3.13	2.85	2.33	1.36
Household does not have control over the equipment	3.91	0.97	2.00	0.47	0.28	0.20
Controls heating equipment in some other way	0.24	0.10	Q	Q	Q	Q
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37

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	Number of housing units (million)					
	Total U.S. ^a	Climate region ^b				
		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Secondary heating fuel and equipment						
Uses secondary heating equipment	51.80	19.78	16.95	5.10	6.84	3.13
Natural gas	7.88	3.10	2.44	0.89	0.78	0.67
Fireplace	6.94	2.74	2.16	0.77	0.66	0.62
Some other equipment	0.94	0.36	0.28	0.13	0.12	Q
Electricity	31.57	11.73	10.50	3.19	4.36	1.80
Portable electric heaters	25.08	8.86	8.61	2.65	3.54	1.43
Ductless heat pump (mini-split)	0.93	0.38	0.34	Q	0.10	Q
Built-in electric units	3.14	1.58	0.83	0.27	0.24	0.22
Fireplace	1.82	0.71	0.48	0.19	0.39	Q
Some other equipment	0.59	0.20	0.24	Q	0.09	Q
Wood	8.83	3.59	2.36	0.96	1.35	0.57
Heating stove	3.13	1.89	0.75	0.16	0.07	0.25
Fireplace	5.68	1.69	1.60	0.80	1.27	0.32
Some other equipment	Q	Q	Q	N	Q	N
Some other fuel ^c	3.52	1.37	1.66	Q	0.35	0.09
Does not use secondary heating equipment	65.94	22.56	19.46	8.31	12.25	3.36
Does not use any heating equipment	5.79	0.16	0.38	1.65	3.23	0.37
Secondary heating usage						
Uses all or almost all of the time	10.92	4.99	3.58	0.75	0.90	0.69
Uses at least once a week	9.40	3.99	2.85	0.94	0.90	0.74
Uses a few times per month	4.72	1.80	1.47	0.49	0.61	0.34
Uses only when it is very cold	20.18	6.68	6.79	2.16	3.49	1.06
Uses only in rare situations, such as when a guest is visiting	6.58	2.32	2.27	0.75	0.94	0.30
Does not use secondary heating equipment	65.94	22.56	19.46	8.31	12.25	3.36
Does not use any heating equipment	5.79	0.16	0.38	1.65	3.23	0.37
Winter indoor daytime temperature when someone is home						
63 degrees or less	4.42	1.59	1.14	0.73	0.42	0.54
64 to 66 degrees	10.30	4.48	2.68	1.14	0.86	1.13
67 to 69 degrees	32.57	13.91	10.23	2.99	3.32	2.13
70 degrees	26.95	10.17	8.42	2.76	4.21	1.39
71 to 73 degrees	25.20	8.23	8.82	2.54	4.71	0.90
74 degrees or more	18.30	3.96	5.13	3.24	5.57	0.41
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37

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	Number of housing units (million)					
	Total U.S. ^a	Climate region ^b				
		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Winter indoor daytime temperature when no one is home						
63 degrees or less	18.75	7.56	4.32	2.81	1.75	2.32
64 to 66 degrees	22.15	8.79	6.27	2.90	2.49	1.69
67 to 69 degrees	30.09	11.70	10.49	2.70	3.76	1.44
70 degrees	19.35	6.97	6.51	1.82	3.50	0.54
71 to 73 degrees	15.06	5.02	5.54	1.25	2.87	0.38
74 degrees or more	12.35	2.30	3.28	1.92	4.71	0.13
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37
Winter indoor temperature at night						
63 degrees or less	14.85	6.41	3.19	2.34	0.84	2.06
64 to 66 degrees	19.72	8.29	5.28	2.54	1.93	1.68
67 to 69 degrees	31.58	12.03	10.90	2.71	4.47	1.47
70 degrees	20.22	7.08	6.81	1.84	3.72	0.77
71 to 73 degrees	17.49	5.36	6.28	1.59	3.94	0.32
74 degrees or more	13.88	3.16	3.95	2.39	4.18	0.20
Does not use heating equipment	5.79	0.16	0.38	1.65	3.23	0.37
Heated basement						
Yes	24.93	16.93	7.35	0.11	Q	0.53
No	11.71	7.12	3.55	0.40	0.24	0.42
Not asked (heated homes with no basement)	45.23	6.37	13.67	8.85	12.91	3.42
Not asked (unheated homes, apartments, and mobile homes)	41.66	12.08	12.23	5.70	9.15	2.50
Heated attic						
Yes	3.48	1.43	1.31	0.26	0.37	0.11
No	51.67	17.68	16.83	5.08	9.83	2.26
Not asked (heated homes with no attic)	26.71	11.33	6.42	4.01	2.96	2.00
Not asked (unheated homes, apartments, and mobile homes)	41.66	12.08	12.23	5.70	9.15	2.50
Heated attached garage						
Yes	3.87	1.99	0.95	0.37	0.38	0.17
No	46.18	15.91	12.52	6.66	8.32	2.78
Not asked (heated homes with no attached garage)	31.82	12.52	11.09	2.32	4.46	1.42
Not asked (unheated homes, apartments, and mobile homes)	41.66	12.08	12.23	5.70	9.15	2.50

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	Number of housing units (million)					
	Total U.S. ^a	Climate region ^b				
		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Humidifier usage						
Uses a humidifier	29.25	14.75	8.92	2.30	2.29	0.99
Uses only occasionally	7.13	2.35	2.21	1.10	1.04	0.44
Uses only during winter months	15.77	9.52	4.77	0.53	0.60	0.35
Uses about half of the year	2.21	1.07	0.68	0.27	0.10	0.10
Uses all or almost all of the year	4.12	1.81	1.26	0.40	0.55	0.10
Does not use a humidifier	94.28	27.75	27.87	12.76	20.02	5.88

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 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 and Cold.

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

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.

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Relative standard errors (RSEs) for Table HC6.6 Space heating in U.S. homes, by climate region, 2020

RSEs for number of housing units

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Space heating equipment						
Uses space heating equipment	0.22	0.55	0.80	1.43	1.42	2.48
Has space heating equipment but does not use it	5.73	34.12	22.09	10.27	7.52	21.19
Does not have space heating equipment	7.62	31.19	24.15	19.28	8.96	51.55
Main heating fuel and equipment						
Natural gas	0.77	1.25	1.63	2.18	3.72	4.44
Central warm-air furnace	0.83	1.33	1.83	2.21	3.88	4.49
Steam or hot water system	3.59	5.47	5.66	41.70	56.31	27.22
Built-in room heater	6.01	11.60	12.73	9.43	21.28	23.50
Some other equipment	18.53	26.45	34.40	74.01	74.76	72.89
Electricity	0.92	2.68	1.70	4.62	1.85	4.65
Central warm-air furnace	2.22	6.06	3.28	9.43	4.05	12.43
Heat pump	1.83	7.42	2.54	8.12	3.96	10.91
Ductless heat pump (mini-split)	8.94	16.64	14.86	26.69	21.08	18.93
Built-in electric units	2.83	4.38	5.85	14.33	9.84	6.70
Portable electric heaters	6.15	20.39	11.48	12.37	9.06	21.02
Some other equipment	11.79	17.54	18.11	101.71	31.96	49.86
Fuel oil or kerosene	3.50	3.08	8.64	101.21	0.00	45.26
Central warm-air furnace	4.61	4.58	10.21	101.21	0.00	51.14
Steam or hot water system	7.14	6.91	13.91	0.00	0.00	0.00
Some other equipment	16.34	20.69	31.26	0.00	0.00	100.76
Propane	3.76	5.10	7.27	17.33	15.17	28.45
Central warm-air furnace	3.91	5.71	8.29	17.10	19.20	31.30
Some other equipment	8.05	11.02	12.89	36.49	26.69	57.58
Wood	4.88	7.81	9.92	24.25	30.97	17.32
Heating stove	5.46	7.98	10.87	24.25	38.18	17.32
Some other equipment	19.03	20.12	28.62	0.00	58.03	0.00
Some other fuel ^c	35.67	41.91	74.92	0.00	0.00	0.00
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74

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Relative standard errors (RSEs) for Table HC6.6 Space heating in U.S. homes, by climate region, 2020

RSEs for number of housing units

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Main heating equipment (including all fuels)						
Central warm-air furnace	0.58	0.92	1.47	1.98	2.65	3.84
Heat pump	1.83	7.42	2.54	8.12	3.96	10.91
Steam or hot water system	2.89	3.98	4.54	35.10	38.09	23.66
Ductless heat pump (mini-split)	8.94	16.64	14.86	26.69	21.08	18.93
Built-in electric units	2.83	4.38	5.85	14.33	9.84	6.70
Built-in oil or gas room heater	5.37	9.40	9.40	9.54	18.87	23.11
Portable electric heaters	6.15	20.39	11.48	12.37	9.06	21.02
Heating stove burning wood	5.46	7.98	10.87	24.25	38.18	17.32
Some other equipment	9.92	18.90	13.95	59.50	27.67	44.17
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74
Main heating equipment age						
Less than 2 years old	2.42	4.67	3.63	7.49	5.45	10.01
2 to 4 years old	2.11	3.15	3.82	5.79	4.75	8.46
5 to 9 years old	1.44	3.00	2.47	5.12	3.77	7.68
10 to 14 years old	1.99	2.83	3.42	5.82	5.91	6.96
15 to 19 years old	2.50	3.80	4.10	5.92	7.95	9.79
20 or more years old	1.77	2.52	3.08	5.93	6.48	7.58
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74
Has thermostat						
Yes	0.33	0.63	0.98	1.48	0.97	2.59
Smart or internet-connected thermostat	2.22	3.97	4.38	5.61	5.88	8.99
Programmable thermostat	0.88	1.53	1.67	2.98	2.34	4.44
Non-programmable thermostat	1.29	1.95	2.03	4.53	3.19	6.90
No	2.69	5.28	3.34	7.57	6.72	8.59
Does not use heating or air-conditioning equipment	8.55	38.46	25.93	16.63	15.38	20.82
Main heating equipment control						
Sets one temperature and leaves it there most of the time	1.12	1.94	1.56	4.39	2.70	6.91
Manually adjusts the temperature	1.74	2.50	3.23	4.07	3.85	6.95
Programmable or smart thermostat automatically adjusts the temperature	1.84	2.43	4.00	5.61	6.30	6.33
Turns equipment on or off as needed	2.85	6.29	5.30	6.29	6.67	8.11
Household does not have control over the equipment	5.10	9.58	6.41	16.76	18.79	22.37
Controls heating equipment in some other way	17.23	23.74	35.41	51.28	59.83	57.06
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74

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	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Secondary heating fuel and equipment						
Uses secondary heating equipment	1.02	1.31	1.60	3.84	3.37	4.11
Natural gas	3.01	4.34	4.90	11.67	10.73	8.25
Fireplace	3.31	4.53	5.43	13.15	12.43	8.86
Some other equipment	8.63	14.67	16.20	25.34	31.76	36.34
Electricity	1.36	2.17	2.23	4.78	4.76	7.39
Portable electric heaters	1.47	2.69	2.55	5.12	5.27	8.33
Ductless heat pump (mini-split)	9.43	10.19	12.16	39.41	38.18	35.44
Built-in electric units	4.26	5.64	9.25	20.40	20.95	18.12
Fireplace	5.60	11.48	11.06	22.40	14.63	32.42
Some other equipment	12.79	23.45	18.77	64.27	35.87	36.50
Wood	2.77	3.51	4.76	9.51	9.39	11.13
Heating stove	4.79	5.61	9.16	23.77	32.74	16.75
Fireplace	3.84	6.79	6.41	10.23	9.71	15.15
Some other equipment	68.13	77.35	70.14	0.00	100.36	0.00
Some other fuel ^c	4.33	7.75	5.60	35.81	11.80	28.97
Does not use secondary heating equipment	0.80	1.38	1.50	2.71	2.11	4.13
Does not use any heating equipment	4.41	24.67	15.05	8.64	5.99	18.74
Secondary heating usage						
Uses all or almost all of the time	2.75	3.57	4.23	10.27	10.91	10.69
Uses at least once a week	2.33	4.08	3.86	9.40	10.13	11.19
Uses a few times per month	4.20	6.14	6.33	17.28	13.33	15.01
Uses only when it is very cold	2.08	3.24	3.23	7.15	4.47	9.28
Uses only in rare situations, such as when a guest is visiting	3.45	5.94	5.75	11.77	10.66	16.12
Does not use secondary heating equipment	0.80	1.38	1.50	2.71	2.11	4.13
Does not use any heating equipment	4.41	24.67	15.05	8.64	5.99	18.74
Winter indoor daytime temperature when someone is home						
63 degrees or less	4.48	8.06	8.98	12.70	15.63	12.94
64 to 66 degrees	2.75	3.73	5.41	8.42	10.55	9.47
67 to 69 degrees	1.20	1.75	2.06	5.70	4.74	6.62
70 degrees	1.56	2.32	2.35	4.65	4.49	7.80
71 to 73 degrees	1.53	2.68	2.87	5.58	3.89	10.75
74 degrees or more	2.27	4.89	4.20	5.87	4.08	15.65
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74

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	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Winter indoor daytime temperature when no one is home						
63 degrees or less	2.19	2.99	3.98	5.97	7.44	6.25
64 to 66 degrees	1.92	2.81	3.44	5.00	6.76	7.01
67 to 69 degrees	1.40	2.50	2.13	5.57	4.38	8.18
70 degrees	2.23	3.47	3.15	7.89	5.99	10.56
71 to 73 degrees	2.10	3.91	3.62	7.57	5.38	14.43
74 degrees or more	2.59	6.04	4.47	8.03	4.95	25.29
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74
Winter indoor temperature at night						
63 degrees or less	2.69	3.51	5.25	6.99	9.79	5.73
64 to 66 degrees	2.11	2.66	3.80	5.98	7.29	6.26
67 to 69 degrees	1.65	2.37	2.31	5.63	5.08	7.44
70 degrees	2.03	3.29	2.92	6.29	5.25	8.80
71 to 73 degrees	2.12	3.79	3.21	6.19	5.59	18.18
74 degrees or more	2.60	5.52	4.67	5.91	5.34	22.35
Does not use heating equipment	4.41	24.67	15.05	8.64	5.99	18.74
Heated basement						
Yes	1.16	1.35	2.62	29.42	71.38	9.40
No	2.24	2.86	3.97	15.61	17.89	13.57
Not asked (heated homes with no basement)	0.60	2.94	1.59	2.14	1.78	3.82
Not asked (unheated homes, apartments, and mobile homes)	0.34	1.07	1.54	3.02	2.03	5.23
Heated attic						
Yes	4.07	6.72	7.44	19.24	12.02	23.05
No	0.74	1.23	1.73	3.40	2.22	5.04
Not asked (heated homes with no attic)	1.37	2.07	3.00	4.04	5.43	5.30
Not asked (unheated homes, apartments, and mobile homes)	0.34	1.07	1.54	3.02	2.03	5.23
Heated attached garage						
Yes	3.93	5.51	7.95	13.74	15.57	18.23
No	0.88	1.52	2.23	2.48	2.79	4.57
Not asked (heated homes with no attached garage)	1.12	1.71	1.98	6.07	3.47	6.20
Not asked (unheated homes, apartments, and mobile homes)	0.34	1.07	1.54	3.02	2.03	5.23

Preliminary data release date: May 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC6.6 Space heating in U.S. homes, by climate region, 2020

RSEs for number of housing units

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Humidifier usage						
Uses a humidifier	1.47	1.77	2.76	5.65	6.01	10.35
Uses only occasionally	3.83	5.81	5.85	9.58	10.51	15.41
Uses only during winter months	1.73	2.19	3.13	14.54	12.56	16.32
Uses about half of the year	6.35	8.21	10.91	21.93	33.71	29.79
Uses all or almost all of the year	5.07	6.87	7.88	15.55	16.05	33.83
Does not use a humidifier	0.46	1.04	1.08	1.76	1.01	3.31

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 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 and Cold.

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