

Preliminary data release date: May 2022

Final data release date: March 2023

**Table HC8.6 Water heating in 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>Fuel used by main water heater</b>						
Natural gas	59.33	24.08	15.29	10.60	5.72	3.64
Electricity	57.04	14.62	19.56	3.99	15.85	3.03
Propane	4.12	1.90	1.03	0.41	0.61	0.17
Fuel oil or kerosene	2.62	1.73	0.84	Q	Q	Q
Some other fuel	0.41	0.17	Q	Q	0.11	Q
<b>Size of main water heater</b>						
Small (30 gallons or less)	13.28	4.47	3.75	1.56	2.69	0.80
Medium (31 to 49 gallons)	55.37	20.96	16.20	6.90	8.75	2.57
Large (50 gallons or more)	46.85	14.31	14.69	5.31	9.65	2.88
Tankless	8.03	2.77	2.15	1.29	1.22	0.61
<b>Age of main water heater</b>						
Less than 2 years old	17.65	6.64	4.66	2.02	3.41	0.93
2 to 4 years old	22.49	7.87	6.49	2.72	4.41	1.00
5 to 9 years old	38.96	13.30	11.68	4.32	7.70	1.96
10 to 14 years old	25.10	8.25	7.82	3.56	3.78	1.69
15 to 19 years old	10.35	3.41	3.29	1.33	1.64	0.68
20 years or more	8.98	3.04	2.85	1.11	1.37	0.61
<b>Fuel used by secondary water heater</b>						
Natural gas	2.34	0.66	0.55	0.39	0.60	0.14
Electricity	2.92	0.65	0.92	0.23	0.94	0.19
Some other fuel	0.48	0.21	0.10	Q	0.13	Q
Does not have a secondary water heater	117.78	40.99	35.21	14.44	20.65	6.49

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.

<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*.

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 HC8.6 Water heating in 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>Fuel used by main water heater</b>						
Natural gas	0.75	1.24	1.77	1.67	3.53	4.33
Electricity	0.80	1.85	1.47	4.44	1.39	3.69
Propane	4.44	5.79	8.31	15.13	10.51	19.62
Fuel oil or kerosene	5.20	5.32	11.13	101.21	81.12	101.19
Some other fuel	16.08	21.04	45.59	51.35	18.52	100.19
<b>Size of main water heater</b>						
Small (30 gallons or less)	2.50	3.95	4.85	6.99	6.11	9.46
Medium (31 to 49 gallons)	1.02	1.59	1.86	2.87	2.49	5.25
Large (50 gallons or more)	1.04	2.16	1.77	3.77	2.62	4.54
Tankless	3.52	5.61	5.29	9.36	8.79	10.29
<b>Age of main water heater</b>						
Less than 2 years old	2.02	3.25	3.81	6.79	5.18	8.20
2 to 4 years old	1.87	3.48	3.95	5.81	4.96	7.06
5 to 9 years old	1.12	2.20	2.10	4.23	2.96	5.78
10 to 14 years old	1.66	2.58	2.36	4.88	5.71	7.68
15 to 19 years old	2.95	4.42	5.15	9.84	7.35	10.62
20 years or more	3.03	4.98	5.53	10.12	8.78	11.45
<b>Fuel used by secondary water heater</b>						
Natural gas	5.83	11.58	13.33	16.94	10.89	24.27
Electricity	4.87	9.65	6.81	19.30	10.80	20.23
Some other fuel	12.64	21.46	23.10	101.61	24.46	41.58
Does not have a secondary water heater	0.17	0.60	0.80	1.26	0.81	2.53

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.

<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.

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