

Preliminary data release date: May 2022

Final data release date: March 2023

Table HC8.5 Water heating in U.S. homes, by household income, 2020

Number of housing units (million)

	Household income								
	Total U.S. ^a	Less than \$5,000	\$5,000–\$9,999	\$10,000–\$19,999	\$20,000–\$39,999	\$40,000–\$59,999	\$60,000–\$99,999	\$100,000–\$149,999	\$150,000 or more
All homes	123.53	4.48	4.01	10.25	24.07	19.61	27.71	16.54	16.86
Fuel used by main water heater									
Natural gas	59.33	1.76	1.55	4.24	10.51	8.87	13.49	8.98	9.93
Electricity	57.04	2.53	2.31	5.52	12.44	9.74	12.46	6.41	5.64
Propane	4.12	0.13	0.07	0.30	0.65	0.62	1.02	0.63	0.71
Fuel oil or kerosene	2.62	Q	Q	0.16	0.40	0.34	0.62	0.45	0.53
Some other fuel	0.41	Q	Q	Q	0.07	0.04	0.12	0.07	0.06
Size of main water heater									
Small (30 gallons or less)	13.28	0.85	0.84	2.10	3.55	2.31	2.36	0.78	0.50
Medium (31 to 49 gallons)	55.37	1.91	1.72	4.74	11.91	9.66	12.75	7.18	5.50
Large (50 gallons or more)	46.85	1.54	1.23	3.03	7.62	6.55	10.75	7.34	8.78
Tankless	8.03	0.18	0.23	0.38	0.99	1.09	1.85	1.24	2.08
Age of main water heater									
Less than 2 years old	17.65	0.76	0.58	1.38	3.29	2.73	4.07	2.33	2.51
2 to 4 years old	22.49	0.87	0.70	1.61	4.29	3.57	5.35	2.88	3.21
5 to 9 years old	38.96	1.47	1.27	3.07	7.80	6.37	8.53	5.38	5.07
10 to 14 years old	25.10	0.72	0.86	2.12	4.88	3.95	5.62	3.44	3.51
15 to 19 years old	10.35	0.40	0.24	1.07	2.09	1.53	2.14	1.39	1.50
20 years or more	8.98	0.26	0.36	1.00	1.72	1.45	2.01	1.12	1.07
Fuel used by secondary water heater									
Natural gas	2.34	Q	Q	0.09	0.24	0.22	0.47	0.42	0.86
Electricity	2.92	0.10	Q	0.17	0.35	0.31	0.69	0.50	0.77
Some other fuel	0.48	Q	Q	Q	Q	Q	0.10	0.09	0.17
Does not have a secondary water heater	117.78	4.32	3.96	9.98	23.45	19.02	26.45	15.53	15.06

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.

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 HC8.5 Water heating in U.S. homes, by household income, 2020

RSEs for number of housing units

	Household income								
	Total U.S. ^a	Less than \$5,000	\$5,000–\$9,999	\$10,000–\$19,999	\$20,000–\$39,999	\$40,000–\$59,999	\$60,000–\$99,999	\$100,000–\$149,999	\$150,000 or more
All homes	0.00	4.63	5.53	3.21	1.98	1.83	1.58	1.83	1.93
Fuel used by main water heater									
Natural gas	0.75	7.66	8.64	4.52	3.63	2.67	2.12	2.73	2.65
Electricity	0.80	5.97	6.79	4.01	2.64	2.80	2.62	3.48	3.73
Propane	4.44	26.43	27.67	15.94	12.99	10.50	8.33	11.40	9.61
Fuel oil or kerosene	5.20	45.78	39.26	23.21	14.28	14.91	8.58	12.83	10.53
Some other fuel	16.08	72.73	53.54	59.06	39.50	44.63	22.06	34.40	25.79
Size of main water heater									
Small (30 gallons or less)	2.50	9.94	13.05	7.24	5.47	6.90	6.14	10.90	10.51
Medium (31 to 49 gallons)	1.02	6.75	7.61	4.68	2.72	2.73	2.33	2.69	4.18
Large (50 gallons or more)	1.04	8.02	10.07	6.14	3.43	3.24	2.43	2.88	2.88
Tankless	3.52	27.93	23.74	16.63	10.99	9.94	7.21	8.22	5.56
Age of main water heater									
Less than 2 years old	2.02	13.02	14.71	8.57	6.05	5.64	4.35	5.82	5.98
2 to 4 years old	1.87	13.85	12.32	8.57	4.29	4.77	4.39	4.97	4.36
5 to 9 years old	1.12	8.04	8.65	5.31	3.82	3.42	3.49	3.55	4.11
10 to 14 years old	1.66	11.34	12.79	7.87	4.54	5.09	3.73	4.38	4.97
15 to 19 years old	2.95	16.61	17.35	10.45	6.39	7.71	5.19	7.49	8.64
20 years or more	3.03	17.16	18.10	9.77	6.71	6.91	5.84	7.80	7.88
Fuel used by secondary water heater									
Natural gas	5.83	59.34	100.16	39.84	19.43	20.93	16.68	13.90	8.47
Electricity	4.87	37.12	50.26	22.46	15.08	14.53	11.04	13.33	9.36
Some other fuel	12.64	64.11	100.44	74.42	51.83	35.99	26.71	29.30	19.98
Does not have a secondary water heater	0.17	4.59	5.62	3.13	2.02	1.86	1.58	1.86	2.06

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.