

Preliminary data release date: May 2022

Final data release date: March 2023

Table HC8.4 Water heating in U.S. homes, by number of household members, 2020

| | Number of housing units (million) | | | | | |
|--|-----------------------------------|-----------------------------|-----------|-----------|-----------|-------------------|
| | Total U.S. ^a | Number of household members | | | | |
| | | 1 member | 2 members | 3 members | 4 members | 5 or more members |
| All homes | 123.53 | 33.59 | 45.31 | 18.27 | 15.56 | 10.81 |
| Fuel used by main water heater | | | | | | |
| Natural gas | 59.33 | 14.82 | 21.49 | 9.27 | 8.04 | 5.73 |
| Electricity | 57.04 | 17.04 | 20.91 | 7.97 | 6.63 | 4.49 |
| Propane | 4.12 | 1.02 | 1.81 | 0.51 | 0.45 | 0.33 |
| Fuel oil or kerosene | 2.62 | 0.66 | 0.98 | 0.43 | 0.39 | 0.16 |
| Some other fuel | 0.41 | 0.05 | 0.13 | 0.09 | 0.04 | 0.09 |
| Size of main water heater | | | | | | |
| Small (30 gallons or less) | 13.28 | 4.84 | 4.43 | 1.76 | 1.22 | 1.02 |
| Medium (31 to 49 gallons) | 55.37 | 15.71 | 21.07 | 7.62 | 6.57 | 4.40 |
| Large (50 gallons or more) | 46.85 | 11.31 | 16.73 | 7.66 | 6.60 | 4.55 |
| Tankless | 8.03 | 1.73 | 3.08 | 1.23 | 1.16 | 0.83 |
| Age of main water heater | | | | | | |
| Less than 2 years old | 17.65 | 3.80 | 6.23 | 2.88 | 2.54 | 2.21 |
| 2 to 4 years old | 22.49 | 5.36 | 8.65 | 3.30 | 3.04 | 2.14 |
| 5 to 9 years old | 38.96 | 10.42 | 14.55 | 5.95 | 4.90 | 3.13 |
| 10 to 14 years old | 25.10 | 7.51 | 9.20 | 3.45 | 2.94 | 2.00 |
| 15 to 19 years old | 10.35 | 3.32 | 3.68 | 1.48 | 1.10 | 0.77 |
| 20 years or more | 8.98 | 3.19 | 3.00 | 1.21 | 1.03 | 0.56 |
| Fuel used by secondary water heater | | | | | | |
| Natural gas | 2.34 | 0.41 | 0.92 | 0.39 | 0.37 | 0.26 |
| Electricity | 2.92 | 0.49 | 1.22 | 0.44 | 0.42 | 0.35 |
| Some other fuel | 0.48 | 0.06 | 0.23 | Q | 0.08 | 0.06 |
| Does not have a secondary water heater | 117.78 | 32.62 | 42.94 | 17.40 | 14.69 | 10.14 |

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 HC8.4 Water heating in U.S. homes, by number of household members, 2020

RSEs for number of housing units

| | Number of household members | | | | | |
|--|-----------------------------|----------|-----------|-----------|-----------|-------------------|
| | Total U.S. ^a | 1 member | 2 members | 3 members | 4 members | 5 or more members |
| All homes | 0.00 | 1.25 | 1.15 | 1.87 | 2.08 | 3.13 |
| Fuel used by main water heater | | | | | | |
| Natural gas | 0.75 | 2.11 | 1.77 | 3.44 | 3.14 | 3.97 |
| Electricity | 0.80 | 1.80 | 1.69 | 3.09 | 3.68 | 4.61 |
| Propane | 4.44 | 9.60 | 6.33 | 12.84 | 13.23 | 17.04 |
| Fuel oil or kerosene | 5.20 | 10.41 | 8.15 | 10.42 | 13.57 | 16.90 |
| Some other fuel | 16.08 | 31.51 | 22.45 | 37.99 | 40.82 | 27.18 |
| Size of main water heater | | | | | | |
| Small (30 gallons or less) | 2.50 | 4.23 | 4.83 | 7.56 | 7.85 | 10.03 |
| Medium (31 to 49 gallons) | 1.02 | 2.05 | 1.80 | 3.52 | 3.18 | 4.23 |
| Large (50 gallons or more) | 1.04 | 2.65 | 2.05 | 3.43 | 3.12 | 4.04 |
| Tankless | 3.52 | 7.27 | 4.78 | 8.46 | 8.39 | 10.59 |
| Age of main water heater | | | | | | |
| Less than 2 years old | 2.02 | 4.83 | 3.08 | 4.79 | 6.04 | 7.21 |
| 2 to 4 years old | 1.87 | 4.35 | 2.71 | 5.03 | 5.32 | 6.38 |
| 5 to 9 years old | 1.12 | 2.38 | 2.40 | 3.53 | 3.07 | 6.03 |
| 10 to 14 years old | 1.66 | 3.64 | 2.54 | 4.83 | 4.80 | 6.68 |
| 15 to 19 years old | 2.95 | 5.06 | 4.51 | 8.11 | 8.01 | 11.44 |
| 20 years or more | 3.03 | 5.68 | 4.41 | 7.86 | 9.42 | 11.27 |
| Fuel used by secondary water heater | | | | | | |
| Natural gas | 5.83 | 13.78 | 10.60 | 15.29 | 14.30 | 15.28 |
| Electricity | 4.87 | 14.31 | 8.71 | 11.65 | 13.25 | 13.54 |
| Some other fuel | 12.64 | 32.73 | 18.26 | 48.00 | 27.61 | 29.87 |
| Does not have a secondary water heater | 0.17 | 1.28 | 1.18 | 1.96 | 2.20 | 3.27 |

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.