

Preliminary data release date: May 2022

Final data release date: March 2023

Table HC1.7 Fuels used and end uses in homes in the Northeast and Midwest regions, 2020

Number of housing units (million)

| | Northeast Census Region | | | Midwest Census Region | | | |
|---|-------------------------|-----------------|-------------|-----------------------|---------------|--------------------|--------------------|
| | Total U.S. ^a | Total Northeast | New England | Middle Atlantic | Total Midwest | East North Central | West North Central |
| All homes | 123.53 | 21.92 | 5.88 | 16.04 | 27.04 | 18.55 | 8.50 |
| Fuels used for any use (more than one may apply) | | | | | | | |
| Electricity | 123.53 | 21.92 | 5.88 | 16.04 | 27.04 | 18.55 | 8.50 |
| Natural gas | 75.31 | 14.59 | 3.02 | 11.58 | 20.08 | 14.22 | 5.86 |
| Propane ^b | 11.14 | 2.58 | 0.93 | 1.65 | 2.72 | 1.62 | 1.09 |
| Wood | 11.05 | 2.28 | 0.97 | 1.30 | 2.21 | 1.52 | 0.69 |
| Fuel oil or kerosene | 5.68 | 4.47 | 2.06 | 2.41 | 0.41 | 0.36 | 0.05 |
| Electricity end uses (more than one may apply) | | | | | | | |
| Space heating | 64.84 | 9.16 | 2.31 | 6.84 | 11.79 | 7.73 | 4.06 |
| Main | 42.57 | 3.99 | 0.91 | 3.08 | 5.20 | 3.31 | 1.89 |
| Secondary | 31.57 | 5.92 | 1.58 | 4.34 | 7.63 | 5.03 | 2.60 |
| Air conditioning | 109.51 | 19.50 | 4.97 | 14.53 | 25.24 | 17.19 | 8.05 |
| Water heating | 57.72 | 7.26 | 1.93 | 5.33 | 9.73 | 6.36 | 3.37 |
| Cooking ^c | 83.94 | 11.96 | 3.94 | 8.02 | 17.45 | 11.02 | 6.43 |
| Natural gas end uses (more than one may apply) | | | | | | | |
| Space heating | 64.47 | 12.41 | 2.53 | 9.88 | 19.04 | 13.38 | 5.65 |
| Main | 62.71 | 12.24 | 2.48 | 9.76 | 18.81 | 13.27 | 5.54 |
| Secondary | 7.88 | 1.02 | 0.17 | 0.85 | 1.95 | 1.20 | 0.75 |
| Water heating | 59.56 | 11.43 | 2.43 | 9.00 | 16.19 | 11.45 | 4.75 |
| Cooking ^c | 47.10 | 10.81 | 1.87 | 8.94 | 10.78 | 8.54 | 2.24 |
| Outdoor grilling | 4.71 | 0.81 | 0.15 | 0.65 | 0.96 | 0.73 | 0.24 |
| Propane end uses (more than one may apply) | | | | | | | |
| Space heating | 7.68 | 1.37 | 0.48 | 0.89 | 2.49 | 1.49 | 0.99 |
| Main | 5.21 | 0.99 | 0.34 | 0.64 | 2.12 | 1.28 | 0.84 |
| Secondary | 3.01 | 0.52 | 0.16 | 0.36 | 0.52 | 0.31 | 0.21 |
| Water heating | 4.16 | 0.84 | 0.35 | 0.49 | 1.10 | 0.72 | 0.38 |
| Cooking ^c | 5.80 | 1.56 | 0.58 | 0.98 | 1.16 | 0.74 | 0.42 |
| Outdoor grilling ^b | 42.09 | 8.48 | 2.85 | 5.63 | 10.20 | 7.01 | 3.19 |
| Wood end uses (more than one may apply) | | | | | | | |
| Space heating | 11.02 | 2.26 | 0.97 | 1.29 | 2.21 | 1.52 | 0.69 |
| Main | 2.25 | 0.47 | 0.19 | 0.27 | 0.51 | 0.36 | 0.16 |
| Secondary | 8.83 | 1.80 | 0.78 | 1.02 | 1.71 | 1.17 | 0.54 |
| Water heating | 0.14 | 0.05 | 0.03 | Q | Q | Q | Q |

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|--|-------------------------|-----------------|-------------|-----------------------|---------------|--------------------|--------------------|
| | Total U.S. ^a | Total Northeast | New England | Middle Atlantic | Total Midwest | East North Central | West North Central |
| All homes | 123.53 | 21.92 | 5.88 | 16.04 | 27.04 | 18.55 | 8.50 |
| Fuel oil or kerosene end uses (more than one may apply) | | | | | | | |
| Space heating | 5.39 | 4.26 | 2.01 | 2.25 | 0.38 | 0.33 | 0.05 |
| Main | 4.93 | 4.07 | 1.94 | 2.12 | 0.28 | 0.23 | 0.05 |
| Secondary | 0.48 | 0.21 | 0.08 | 0.14 | 0.10 | 0.09 | Q |
| Water heating | 2.68 | 2.43 | 1.16 | 1.26 | Q | Q | Q |

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

^c *Cooking* includes fuels used by major cooking equipment (ovens, cooktops, and ranges).

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 HC1.7 Fuels used and end uses in homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

| | Northeast Census Region | | | Midwest Census Region | | | |
|---|-------------------------|-----------------|-------------|-----------------------|---------------|--------------------|--------------------|
| | Total U.S. ^a | Total Northeast | New England | Middle Atlantic | Total Midwest | East North Central | West North Central |
| All homes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuels used for any use (more than one may apply) | | | | | | | |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural gas | 0.57 | 0.98 | 2.42 | 1.26 | 1.07 | 1.23 | 1.76 |
| Propane ^b | 2.48 | 4.90 | 5.65 | 6.53 | 4.97 | 6.63 | 5.71 |
| Wood | 2.35 | 3.85 | 5.91 | 5.81 | 6.11 | 7.97 | 10.15 |
| Fuel oil/kerosene | 3.26 | 3.69 | 3.34 | 6.30 | 14.96 | 16.30 | 29.04 |
| Electricity end uses (more than one may apply) | | | | | | | |
| Space heating | 0.81 | 2.62 | 3.14 | 3.32 | 2.25 | 2.98 | 2.89 |
| Main | 0.92 | 4.25 | 5.98 | 5.50 | 4.18 | 5.45 | 5.19 |
| Secondary | 1.36 | 3.52 | 4.50 | 4.32 | 2.73 | 3.64 | 4.20 |
| Air conditioning | 0.35 | 0.66 | 1.18 | 0.75 | 0.54 | 0.72 | 0.71 |
| Water heating | 0.82 | 2.28 | 3.54 | 3.12 | 2.42 | 3.12 | 3.70 |
| Cooking ^c | 0.51 | 1.66 | 1.90 | 2.39 | 1.16 | 1.69 | 1.41 |
| Natural gas end uses (more than one may apply) | | | | | | | |
| Space heating | 0.73 | 1.52 | 3.12 | 1.76 | 1.34 | 1.58 | 1.89 |
| Main | 0.77 | 1.51 | 3.28 | 1.77 | 1.34 | 1.57 | 1.89 |
| Secondary | 3.01 | 7.72 | 15.84 | 9.01 | 6.35 | 8.82 | 7.12 |
| Water heating | 0.75 | 1.43 | 2.96 | 1.86 | 1.51 | 1.81 | 2.58 |
| Cooking ^c | 0.92 | 1.55 | 4.17 | 1.75 | 1.99 | 2.43 | 4.69 |
| Outdoor grilling | 3.76 | 10.70 | 15.93 | 11.46 | 8.75 | 11.44 | 14.32 |
| Propane end uses (more than one may apply) | | | | | | | |
| Space heating | 3.03 | 6.66 | 8.27 | 9.04 | 5.31 | 7.45 | 6.07 |
| Main | 3.76 | 8.29 | 9.78 | 11.37 | 6.23 | 8.62 | 7.68 |
| Secondary | 5.02 | 10.53 | 11.81 | 14.42 | 11.78 | 16.76 | 14.82 |
| Water heating | 4.42 | 8.27 | 9.18 | 12.13 | 8.84 | 12.41 | 10.06 |
| Cooking ^c | 3.46 | 5.58 | 6.07 | 7.68 | 7.46 | 11.01 | 11.49 |
| Outdoor grilling ^b | 1.10 | 2.03 | 2.37 | 2.73 | 2.08 | 2.83 | 3.15 |
| Wood end uses (more than one may apply) | | | | | | | |
| Space heating | 2.35 | 3.89 | 5.98 | 5.81 | 6.15 | 7.97 | 10.29 |
| Main | 4.88 | 10.55 | 11.53 | 16.22 | 13.66 | 16.85 | 22.31 |
| Secondary | 2.77 | 4.69 | 6.78 | 7.10 | 6.77 | 9.46 | 12.21 |
| Water heating | 21.82 | 34.14 | 32.67 | 60.36 | 38.96 | 49.95 | 50.54 |

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RSEs for number of housing units

| | Northeast Census Region | | | Midwest Census Region | | | |
|---|-------------------------|-----------------|-------------|-----------------------|---------------|--------------------|--------------------|
| | Total U.S. ^a | Total Northeast | New England | Middle Atlantic | Total Midwest | East North Central | West North Central |
| All homes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel oil/kerosene end uses (more than one may apply) | | | | | | | |
| Space heating | 3.39 | 3.80 | 3.40 | 6.60 | 16.37 | 17.96 | 29.04 |
| Main | 3.50 | 3.90 | 3.42 | 6.73 | 20.23 | 23.18 | 30.61 |
| Secondary | 13.56 | 20.84 | 21.42 | 31.09 | 31.25 | 33.04 | 100.41 |
| Water heating | 5.25 | 5.65 | 5.41 | 9.68 | 38.18 | 38.57 | 100.43 |

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

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