

Table CE2-2c. Space-Heating Energy Consumption in U.S. Households by Year of Construction, 2001

| | Total | Year of Construction | | | | | | RSE Row Factors |
|---|-------|---------------------------|--------------|--------------|--------------|--------------|----------------|-----------------|
| | | 1990 to 2001 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | |
| RSE Column Factor: | 0.5 | 1.5 | 1.1 | 1.0 | 1.2 | 1.1 | 0.9 | |
| Million Households | | | | | | | | |
| Total U.S. Households | 107.0 | 15.5 | 18.2 | 18.8 | 13.8 | 14.2 | 26.6 | 4.3 |
| No Space Heating | 1.0 | Q | Q | Q | 0.2 | 0.3 | Q | 22.6 |
| Space Heating | 106.0 | 15.4 | 18.2 | 18.6 | 13.6 | 13.9 | 26.4 | 4.4 |
| Not Using a Major Fuel ² | 0.7 | Q | Q | Q | Q | Q | 0.2 | 39.1 |
| Using a Major Fuel ² | 105.3 | 15.4 | 18.1 | 18.5 | 13.4 | 13.8 | 26.2 | 4.3 |
| For Main Space Heating | 103.8 | 15.2 | 17.8 | 18.1 | 13.2 | 13.6 | 25.8 | 4.4 |
| For Secondary Space Heating Only | 1.5 | 0.1 | 0.3 | 0.4 | Q | Q | 0.4 | 25.3 |
| Number of Households with Space Heating, Major Fuels Used (more than one may apply): | | | | | | | | |
| Electricity | 43.8 | 6.8 | 10.3 | 10.1 | 4.7 | 4.4 | 7.5 | 6.2 |
| Natural Gas | 60.5 | 8.7 | 7.7 | 8.0 | 8.6 | 9.5 | 17.9 | 6.3 |
| Fuel Oil | 8.5 | 0.3 | 0.4 | 0.9 | 1.3 | 1.8 | 3.8 | 15.6 |
| Kerosene | 2.7 | 0.4 | 0.3 | 0.6 | 0.3 | 0.2 | 0.7 | 21.7 |
| LPG | 6.6 | 1.2 | 1.2 | 1.2 | 0.8 | 0.5 | 1.8 | 17.0 |
| Quadrillion Btu^a | | | | | | | | |
| Space-Heating Btu Consumption, Major Fuels Used: | | | | | | | | |
| Electricity | 0.39 | 0.06 | 0.10 | 0.11 | 0.04 | 0.03 | 0.05 | 9.2 |
| Natural Gas | 3.32 | 0.41 | 0.36 | 0.38 | 0.41 | 0.52 | 1.25 | 7.3 |
| Fuel Oil | 0.58 | 0.02 | 0.03 | 0.05 | 0.07 | 0.12 | 0.29 | 18.4 |
| Kerosene | 0.04 | 0.01 | (*) | 0.02 | Q | (*) | 0.01 | 32.7 |
| LPG | 0.28 | 0.04 | 0.04 | 0.05 | 0.03 | 0.02 | 0.10 | 19.3 |
| Total | 4.62 | 0.54 | 0.53 | 0.60 | 0.55 | 0.69 | 1.70 | 5.3 |
| Physical Units^a | | | | | | | | |
| Physical Units of Space-Heating Consumption, Major Fuels Used: | | | | | | | | |
| Electricity (billion kWh) | 116 | 18 | 28 | 32 | 12 | 10 | 16 | 9.2 |
| Natural Gas (billion cf) | 3,231 | 401 | 346 | 367 | 397 | 507 | 1,212 | 7.3 |
| Fuel Oil (million gallons) | 4,155 | 124 | 221 | 371 | 494 | 868 | 2,077 | 18.4 |
| Kerosene (million gallons) | 326 | 65 | 31 | 116 | Q | 24 | 57 | 32.8 |
| LPG (million gallons) | 3,097 | 466 | 478 | 524 | 345 | 179 | 1,105 | 19.3 |
| Million Btu per Household^a | | | | | | | | |
| Average Space-Heating Btu Consumption per Household | | | | | | | | |
| Using a Major Fuel ² | 43.9 | 35.2 | 29.4 | 32.6 | 41.3 | 50.4 | 64.9 | 3.6 |
| For Main Space Heating | 44.3 | 35.4 | 29.5 | 33.0 | 41.6 | 50.8 | 65.5 | 3.6 |
| For Secondary Space Heating Only | 18.1 | Q | 21.2 | 14.3 | Q | Q | 23.8 | 27.0 |

See footnotes at end of table.

Table CE2-2c. Space-Heating Energy Consumption in U.S. Households by Year of Construction, 2001 (Continued)

| | Total | Year of Construction | | | | | | RSE Row Factors |
|---|-------|---------------------------|--------------|--------------|--------------|--------------|----------------|-----------------|
| | | 1990 to 2001 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | |
| RSE Column Factor: | 0.5 | 1.5 | 1.1 | 1.0 | 1.2 | 1.1 | 0.9 | |
| Million Households | | | | | | | | |
| Number of Households, Where the Main Space-Heating Fuel Is: | | | | | | | | |
| Electricity | 30.9 | 5.5 | 9.0 | 8.4 | 3.0 | 2.2 | 2.8 | 8.2 |
| Natural Gas | 59.1 | 8.5 | 7.3 | 7.8 | 8.5 | 9.2 | 17.7 | 6.4 |
| Fuel Oil | 8.0 | 0.2 | 0.4 | 0.8 | 1.1 | 1.8 | 3.7 | 15.8 |
| Kerosene | 0.8 | Q | Q | 0.3 | Q | Q | Q | 29.7 |
| LPG | 4.9 | 0.8 | 0.9 | 0.8 | 0.6 | 0.4 | 1.5 | 19.3 |
| Other | 2.2 | 0.2 | 0.4 | 0.5 | 0.3 | 0.2 | 0.6 | 23.8 |
| No Space Heating | 1.0 | Q | Q | Q | 0.2 | 0.3 | Q | 22.6 |
| Million Btu per Household^{4,a} | | | | | | | | |
| Space-Heating Btu Consumption per Household,³ Where the Main Space-Heating Fuel Is: | | | | | | | | |
| Electricity | 12.0 | 10.6 | 10.4 | 12.7 | 12.9 | 13.0 | 16.3 | 6.3 |
| Natural Gas | 55.4 | 47.6 | 46.6 | 47.3 | 47.7 | 55.6 | 70.0 | 3.9 |
| Fuel Oil | 70.2 | 68.1 | 68.4 | 62.9 | 59.0 | 68.2 | 76.5 | 8.2 |
| Kerosene | 38.3 | Q | Q | 36.7 | Q | Q | Q | 23.6 |
| LPG | 51.0 | 46.3 | 40.1 | 51.1 | 50.4 | 38.1 | 63.2 | 8.7 |
| Physical Units (PU) per Household^{4,a} | | | | | | | | |
| Physical Units of Space-Heating Consumption per Household,³ Where the Main Space-Heating Fuel Is: | | | | | | | | |
| Electricity (kWh) | 3,524 | 3,100 | 3,054 | 3,724 | 3,780 | 3,808 | 4,784 | 6.3 |
| Natural Gas (thousand cf) | 54 | 46 | 45 | 46 | 46 | 54 | 68 | 3.9 |
| Fuel Oil (gallons) | 507 | 491 | 493 | 454 | 426 | 492 | 552 | 8.1 |
| Kerosene (gallons) | 283 | Q | Q | 272 | Q | Q | Q | 23.6 |
| LPG (gallons) | 559 | 506 | 439 | 559 | 552 | 417 | 692 | 8.7 |
| 2001 Heating Degree-Days (HDD) per Household⁴ | | | | | | | | |
| 2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is: | | | | | | | | |
| Electricity | 3,006 | 3,121 | 2,799 | 3,080 | 2,802 | 2,761 | 3,641 | 5.2 |
| Natural Gas | 4,255 | 3,931 | 4,260 | 4,058 | 4,060 | 4,096 | 4,673 | 3.1 |
| Fuel Oil | 5,339 | 6,260 | 6,060 | 5,433 | 4,968 | 5,167 | 5,362 | 4.7 |
| Kerosene | 4,636 | Q | Q | 4,482 | Q | Q | Q | 10.9 |
| LPG | 4,643 | 5,309 | 4,256 | 4,685 | 4,261 | 4,211 | 4,752 | 7.9 |
| Average for All Heated Households | 4,004 | 3,776 | 3,588 | 3,726 | 3,880 | 4,014 | 4,680 | 2.5 |

See footnotes at end of table.

Table CE2-2c. Space-Heating Energy Consumption in U.S. Households by Year of Construction, 2001 (Continued)

| | Total | Year of Construction | | | | | | RSE Row Factors |
|---|-------|---------------------------|--------------|--------------|--------------|--------------|----------------|-----------------|
| | | 1990 to 2001 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | |
| RSE Column Factor: | 0.5 | 1.5 | 1.1 | 1.0 | 1.2 | 1.1 | 0.9 | |
| Heated Square Footage (HSF) per Household⁴ | | | | | | | | |
| Heated Square Footage per Household, Where the Main Space-Heating Fuel Is: | | | | | | | | |
| Electricity | 1,399 | 1,607 | 1,422 | 1,313 | 1,412 | 1,348 | 1,196 | 6.0 |
| Natural Gas | 1,836 | 2,510 | 2,077 | 1,650 | 1,584 | 1,750 | 1,657 | 3.4 |
| Fuel Oil | 2,043 | 3,225 | 2,057 | 2,251 | 1,901 | 2,106 | 1,931 | 8.2 |
| Kerosene | 1,076 | Q | Q | 1,039 | Q | Q | Q | 14.9 |
| LPG | 1,570 | 1,953 | 1,671 | 1,577 | 1,549 | 1,513 | 1,332 | 9.8 |
| Average for All Heated Households | 1,707 | 2,155 | 1,731 | 1,524 | 1,559 | 1,721 | 1,628 | 2.9 |
| Space-Heating Intensity^{4,a} [PU÷(HDD×(HSF÷1000))] | | | | | | | | |
| Space-Heating Intensity, Where the Main Space-Heating Fuel Is: | | | | | | | | |
| Electricity (kWh) | 0.838 | 0.618 | 0.768 | 0.921 | 0.956 | 1.023 | 1.098 | 5.5 |
| Natural Gas (cubic feet) | 6.893 | 4.688 | 5.124 | 6.865 | 7.203 | 7.537 | 8.784 | 3.5 |
| Fuel Oil (gallons) | 0.046 | 0.024 | 0.040 | 0.037 | 0.045 | 0.045 | 0.053 | 8.9 |
| Kerosene (gallons) | 0.057 | Q | Q | 0.058 | Q | Q | Q | 22.2 |
| LPG (gallons) | 0.077 | 0.049 | 0.062 | 0.076 | 0.084 | 0.065 | 0.109 | 10.0 |

¹ New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

³ Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

⁴ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

(*) = Value rounds to zero in the units displayed.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.