

2001 Consumption and Expenditures Tables

Total Consumption Tables

(26 pages, 123 kb)

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These data are from the 2001 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects energy-related data for occupied primary housing units. RECS was first conducted in 1978; the twelfth and most recent survey was conducted in 2001. In the 2001 RECS, data were collected from a sample of 4,822 households in housing units statistically selected to represent the 107.0 million housing units in the United States. The RECS data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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Table CE1-1c. Total Energy Consumption in U.S. Households by Climate Zone, 2001

| | Climate Zone ¹ | | | | | | RSE Row Factors |
|--|---------------------------|-----------------------------|--------------------|--------------------|----------------------|--|-----------------|
| | Total | Fewer than 2,000 CDD and -- | | | | 2,000 CDD or More and Fewer than 4,000 HDD | |
| | | More than 7,000 HDD | 5,500 to 7,000 HDD | 4,000 to 5,499 HDD | Fewer than 4,000 HDD | | |
| | | 0.4 | 1.7 | 1.1 | 1.1 | | |
| RSE Column Factor: | | | | | | | |
| Million Households | | | | | | | |
| Total U.S. Households | 107.0 | 9.2 | 28.6 | 24.0 | 21.0 | 24.1 | 7.9 |
| Number of Households, Fuels Used (more than one may apply): | | | | | | | |
| Electricity ² | 107.0 | 9.2 | 28.6 | 24.0 | 21.0 | 24.1 | 7.9 |
| Natural Gas | 66.9 | 4.9 | 21.2 | 14.9 | 13.8 | 12.1 | 8.6 |
| Fuel Oil | 8.7 | 1.8 | 2.9 | 3.7 | Q | Q | 17.0 |
| Kerosene | 2.9 | 0.4 | 0.7 | 0.7 | 0.8 | 0.3 | 21.6 |
| LPG | 9.4 | 1.6 | 2.2 | 1.9 | 2.1 | 1.5 | 20.9 |
| Wood | 14.5 | 2.0 | 3.1 | 2.9 | 3.4 | 3.0 | 13.1 |
| Quadrillion Btu | | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | | |
| Electricity | | | | | | | |
| Primary | 11.63 | 0.91 | 2.64 | 2.53 | 2.17 | 3.37 | 8.0 |
| Site | 3.89 | 0.31 | 0.88 | 0.85 | 0.72 | 1.13 | 8.0 |
| Natural Gas | 4.84 | 0.43 | 1.99 | 1.09 | 0.73 | 0.60 | 10.1 |
| Fuel Oil | 0.71 | 0.17 | 0.26 | 0.26 | Q | Q | 19.5 |
| Kerosene | 0.05 | 0.01 | 0.01 | 0.01 | 0.01 | Q | 32.4 |
| LPG | 0.38 | 0.07 | 0.12 | 0.08 | 0.06 | 0.05 | 25.8 |
| Wood | 0.37 | 0.13 | 0.09 | 0.07 | 0.06 | 0.03 | 20.0 |
| Total (excludes primary electricity and wood) | 9.86 | 0.98 | 3.27 | 2.29 | 1.55 | 1.78 | 7.4 |
| Physical Units | | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | | |
| Electricity (billion kWh) | 1,140 | 90 | 259 | 248 | 212 | 331 | 8.0 |
| Natural Gas (billion cf) | 4,708 | 416 | 1,936 | 1,055 | 713 | 587 | 10.1 |
| Fuel Oil (million gallons) | 5,105 | 1,217 | 1,909 | 1,903 | Q | Q | 19.5 |
| Kerosene (million gallons) | 348 | 75 | 82 | 81 | 92 | Q | 32.4 |
| LPG (million gallons) | 4,121 | 763 | 1,276 | 878 | 707 | 497 | 25.8 |
| Wood (million cords) | 18.7 | 6.3 | 4.3 | 3.5 | 2.9 | 1.7 | 20.0 |
| Million Btu per Household³ | | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | | |
| Electricity | | | | | | | |
| Primary | 108.7 | 98.9 | 92.1 | 105.5 | 103.2 | 140.2 | 3.6 |
| Site | 36.4 | 33.1 | 30.8 | 35.3 | 34.5 | 46.9 | 3.6 |
| Natural Gas | 72.4 | 87.0 | 94.0 | 72.8 | 53.1 | 50.0 | 3.6 |
| Fuel Oil | 81.7 | 91.5 | 92.8 | 72.1 | 35.3 | Q | 8.1 |
| Kerosene | 16.1 | 24.8 | 16.9 | 15.0 | 15.5 | Q | 22.6 |
| LPG | 40.2 | 44.9 | 52.4 | 41.2 | 30.5 | 29.7 | 12.0 |
| Wood | 25.9 | 61.9 | 27.9 | 24.1 | 17.2 | 11.0 | 12.9 |
| Total (excludes primary electricity and wood) | 92.2 | 106.2 | 114.0 | 95.2 | 73.7 | 74.0 | 2.8 |

See footnotes at end of table.

Table CE1-1c. Total Energy Consumption in U.S. Households by Climate Zone, 2001 (Continued)

| | Climate Zone ¹ | | | | | | RSE Row Factors |
|---|---------------------------|-----------------------------|--------------------|--------------------|----------------------|--|-----------------|
| | Total | Fewer than 2,000 CDD and -- | | | | 2,000 CDD or More and Fewer than 4,000 HDD | |
| | | More than 7,000 HDD | 5,500 to 7,000 HDD | 4,000 to 5,499 HDD | Fewer than 4,000 HDD | | |
| RSE Column Factor: | 0.4 | 1.7 | 1.1 | 1.1 | 1.3 | 1.0 | |
| Physical Units per Household³ | | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | | |
| Electricity (kWh) | 10,656 | 9,693 | 9,030 | 10,345 | 10,118 | 13,743 | 3.6 |
| Natural Gas (thousand cf) | 70 | 85 | 91 | 71 | 52 | 49 | 3.6 |
| Fuel Oil (gallons) | 589 | 661 | 670 | 520 | 254 | Q | 8.1 |
| Kerosene (gallons) | 119 | 184 | 125 | 111 | 115 | Q | 22.6 |
| LPG (gallons) | 440 | 491 | 573 | 451 | 334 | 325 | 12.0 |
| Wood (cords) | 1.3 | 3.1 | 1.4 | 1.2 | 0.9 | 0.5 | 12.9 |
| Million Households | | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | | |
| Space Heating ⁴ | 105.3 | 9.1 | 28.5 | 23.7 | 20.4 | 23.5 | 8.0 |
| Electric Air-Conditioning ⁵ | 80.8 | 5.3 | 20.5 | 19.9 | 13.4 | 21.8 | 8.2 |
| Water Heating ⁶ | 106.7 | 9.2 | 28.6 | 24.0 | 20.9 | 24.0 | 7.9 |
| Refrigerators | 106.8 | 9.2 | 28.6 | 24.0 | 20.9 | 24.1 | 7.9 |
| Appliances | 107.0 | 9.2 | 28.6 | 24.0 | 21.0 | 24.1 | 7.9 |
| Quadrillion Btu^a | | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | | |
| Space Heating | 4.62 | 0.58 | 1.89 | 1.15 | 0.56 | 0.44 | 8.8 |
| Electric Air-Conditioning | 0.62 | 0.02 | 0.08 | 0.11 | 0.11 | 0.30 | 10.3 |
| Water Heating | 1.68 | 0.14 | 0.51 | 0.38 | 0.32 | 0.33 | 7.0 |
| Refrigerators | 0.53 | 0.04 | 0.13 | 0.11 | 0.10 | 0.15 | 7.6 |
| Other Appliances and Lighting | 2.40 | 0.20 | 0.65 | 0.53 | 0.46 | 0.56 | 7.4 |
| Million Btu per Household^{3,a} | | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | | |
| Space Heating | 43.9 | 63.2 | 66.2 | 48.6 | 27.5 | 18.9 | 4.5 |
| Electric Air-Conditioning | 7.7 | 3.6 | 4.1 | 5.7 | 7.9 | 13.8 | 4.9 |
| Water Heating | 15.8 | 15.7 | 17.9 | 16.0 | 15.1 | 13.6 | 2.9 |
| Refrigerators | 5.0 | 4.6 | 4.6 | 4.6 | 4.7 | 6.2 | 2.9 |
| Other Appliances and Lighting | 22.5 | 21.7 | 22.8 | 21.9 | 22.1 | 23.2 | 2.8 |

¹ One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

² The RECS cannot be used to accurately estimate the number of households that do not use electricity.

³ The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

⁴ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁵ The number of households, where the end use is electric air-conditioning, does not include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

⁶ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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

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.

**Table CE1-2c. Total 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 | 1.6 | 1.1 | 1.0 | 1.1 | 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 |
| Number of Households, Fuels Used (more than one may apply): | | | | | | | | |
| Electricity ² | 107.0 | 15.5 | 18.2 | 18.8 | 13.8 | 14.2 | 26.6 | 4.3 |
| Natural Gas | 66.9 | 9.4 | 8.8 | 9.0 | 9.5 | 10.3 | 20.0 | 5.9 |
| Fuel Oil | 8.7 | 0.3 | 0.5 | 0.9 | 1.3 | 1.8 | 3.9 | 15.5 |
| Kerosene | 2.9 | 0.4 | 0.3 | 0.7 | 0.4 | 0.3 | 0.8 | 20.8 |
| LPG | 9.4 | 1.4 | 1.5 | 1.7 | 1.1 | 1.0 | 2.6 | 13.9 |
| Wood | 14.5 | 2.0 | 3.0 | 3.2 | 2.0 | 1.7 | 2.5 | 9.9 |
| Quadrillion Btu | | | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | | | |
| Electricity | | | | | | | | |
| Primary | 11.63 | 2.02 | 2.33 | 2.29 | 1.35 | 1.38 | 2.26 | 4.7 |
| Site | 3.89 | 0.68 | 0.78 | 0.77 | 0.45 | 0.46 | 0.76 | 4.7 |
| Natural Gas | 4.84 | 0.66 | 0.57 | 0.57 | 0.61 | 0.75 | 1.68 | 6.9 |
| Fuel Oil | 0.71 | 0.02 | 0.04 | 0.07 | 0.09 | 0.14 | 0.34 | 17.8 |
| Kerosene | 0.05 | 0.01 | (*) | 0.02 | Q | (*) | 0.01 | 32.0 |
| LPG | 0.38 | 0.06 | 0.06 | 0.07 | 0.04 | 0.03 | 0.13 | 17.6 |
| Wood | 0.37 | 0.03 | 0.06 | 0.07 | 0.04 | 0.05 | 0.12 | 18.1 |
| Total (excludes primary electricity and wood) | 9.86 | 1.43 | 1.45 | 1.48 | 1.19 | 1.39 | 2.92 | 4.5 |
| Physical Units | | | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | | | |
| Electricity (billion kWh) | 1,140 | 198 | 229 | 225 | 132 | 135 | 221 | 4.7 |
| Natural Gas (billion cf) | 4,708 | 645 | 551 | 551 | 594 | 732 | 1,635 | 6.9 |
| Fuel Oil (million gallons) | 5,105 | 173 | 321 | 486 | 630 | 1,034 | 2,461 | 17.8 |
| Kerosene (million gallons) | 348 | 66 | 34 | 121 | Q | 24 | 68 | 32.0 |
| LPG (million gallons) | 4,121 | 620 | 619 | 719 | 420 | 286 | 1,457 | 17.6 |
| Wood (million cords) | 18.7 | 1.5 | 3.0 | 3.7 | 2.1 | 2.4 | 6.0 | 18.1 |
| Million Btu per Household³ | | | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | | | |
| Electricity | | | | | | | | |
| Primary | 108.7 | 130.9 | 127.9 | 122.1 | 97.8 | 97.2 | 85.0 | 2.9 |
| Site | 36.4 | 43.8 | 42.8 | 40.8 | 32.7 | 32.5 | 28.4 | 2.9 |
| Natural Gas | 72.4 | 70.9 | 64.3 | 63.0 | 64.6 | 72.9 | 84.3 | 3.5 |
| Fuel Oil | 81.7 | 77.8 | 91.4 | 77.3 | 68.3 | 79.0 | 87.5 | 7.2 |
| Kerosene | 16.1 | 21.3 | 13.5 | 23.2 | Q | 11.4 | 11.6 | 26.1 |
| LPG | 40.2 | 41.1 | 36.6 | 37.5 | 34.2 | 26.3 | 51.6 | 10.8 |
| Wood | 25.9 | 14.8 | 20.0 | 23.0 | 21.1 | 27.6 | 48.5 | 14.9 |
| Total (excludes primary electricity and wood) | 92.2 | 92.5 | 79.7 | 79.0 | 86.5 | 97.9 | 109.8 | 2.4 |

See footnotes at end of table.

Table CE1-2c. Total Energy Consumption in U.S. Households by Year of Construction, 2001 (Continued)

| | Total | Year of Construction | | | | | 1949 or Before | RSE Row Factors |
|---|--------|---------------------------|--------------|--------------|--------------|--------------|----------------|-----------------|
| | | 1990 to 2001 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | | |
| RSE Column Factor: | 0.5 | 1.6 | 1.1 | 1.0 | 1.1 | 1.1 | 0.9 | |
| Physical Units per Household³ | | | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | | | |
| Electricity (kWh) | 10,656 | 12,827 | 12,534 | 11,971 | 9,586 | 9,533 | 8,332 | 2.9 |
| Natural Gas (thousand cf) | 70 | 69 | 63 | 61 | 63 | 71 | 82 | 3.5 |
| Fuel Oil (gallons) | 589 | 561 | 659 | 557 | 493 | 570 | 631 | 7.2 |
| Kerosene (gallons) | 119 | 157 | 100 | 172 | Q | 84 | 86 | 26.1 |
| LPG (gallons) | 440 | 450 | 401 | 411 | 374 | 288 | 565 | 10.8 |
| Wood (cords) | 1.3 | 0.7 | 1.0 | 1.2 | 1.1 | 1.4 | 2.4 | 14.9 |
| Million Households | | | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | | | |
| Space Heating ⁴ | 105.3 | 15.4 | 18.1 | 18.5 | 13.4 | 13.8 | 26.2 | 4.3 |
| Electric Air-Conditioning ⁵ | 80.8 | 13.4 | 15.8 | 14.2 | 10.1 | 10.2 | 17.1 | 4.7 |
| Water Heating ⁶ | 106.7 | 15.4 | 18.2 | 18.7 | 13.7 | 14.2 | 26.4 | 4.3 |
| Refrigerators | 106.8 | 15.5 | 18.2 | 18.7 | 13.8 | 14.1 | 26.5 | 4.3 |
| Appliances | 107.0 | 15.5 | 18.2 | 18.8 | 13.8 | 14.2 | 26.6 | 4.3 |
| Quadrillion Btu^a | | | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | | | |
| Space Heating | 4.62 | 0.54 | 0.53 | 0.60 | 0.55 | 0.69 | 1.70 | 5.3 |
| Electric Air-Conditioning | 0.62 | 0.13 | 0.14 | 0.13 | 0.07 | 0.07 | 0.09 | 7.0 |
| Water Heating | 1.68 | 0.27 | 0.27 | 0.25 | 0.21 | 0.24 | 0.44 | 4.6 |
| Refrigerators | 0.53 | 0.08 | 0.10 | 0.10 | 0.07 | 0.07 | 0.12 | 4.5 |
| Other Appliances and Lighting | 2.40 | 0.41 | 0.41 | 0.40 | 0.29 | 0.31 | 0.58 | 4.7 |
| Million Btu per Household^{3,a} | | | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | | | |
| Space Heating | 43.9 | 35.2 | 29.4 | 32.6 | 41.3 | 50.4 | 64.9 | 3.6 |
| Electric Air-Conditioning | 7.7 | 9.7 | 9.0 | 8.9 | 6.9 | 6.7 | 5.1 | 5.2 |
| Water Heating | 15.8 | 17.3 | 14.8 | 13.6 | 15.6 | 16.8 | 16.6 | 2.7 |
| Refrigerators | 5.0 | 5.1 | 5.3 | 5.3 | 4.8 | 5.1 | 4.5 | 2.6 |
| Other Appliances and Lighting | 22.5 | 26.7 | 22.7 | 21.4 | 20.9 | 22.2 | 21.6 | 2.7 |

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 RECS cannot be used to accurately estimate the number of households that do not use electricity.

³ The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

⁴ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁵ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

⁶ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

^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.

Table CE1-3c. Total Energy Consumption in U.S. Households by Household Income, 2001

| | Total | 2001 Household Income | | | | Below Poverty Line | Eligible for Federal Assistance ¹ | RSE Row Factors |
|--|-------|-----------------------|----------------------|----------------------|------------------|--------------------|--|-----------------|
| | | Less than \$10,000 | \$10,000 to \$29,999 | \$30,000 to \$49,999 | \$50,000 or More | | | |
| RSE Column Factor: | 0.5 | 1.7 | 0.9 | 1.0 | 0.9 | 1.4 | 0.9 | |
| Million Households | | | | | | | | |
| Total U.S. Households | 107.0 | 11.0 | 30.6 | 27.1 | 38.3 | 15.0 | 33.8 | 3.3 |
| Number of Households, Fuels Used (more than one may apply): | | | | | | | | |
| Electricity ² | 107.0 | 11.0 | 30.6 | 27.1 | 38.3 | 15.0 | 33.8 | 3.3 |
| Natural Gas | 66.9 | 6.8 | 18.2 | 16.4 | 25.5 | 9.3 | 20.7 | 4.8 |
| Fuel Oil | 8.7 | 0.6 | 2.2 | 2.5 | 3.4 | 0.8 | 2.4 | 12.7 |
| Kerosene | 2.9 | 0.4 | 0.8 | 0.9 | 0.8 | 0.7 | 1.2 | 17.0 |
| LPG | 9.4 | 0.9 | 2.9 | 2.6 | 3.0 | 1.2 | 3.0 | 12.7 |
| Wood | 14.5 | 0.4 | 2.5 | 3.6 | 8.0 | 0.7 | 2.3 | 10.1 |
| Quadrillion Btu | | | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | | | |
| Electricity | | | | | | | | |
| Primary | 11.63 | 0.81 | 2.78 | 2.91 | 5.13 | 1.25 | 3.06 | 3.9 |
| Site | 3.89 | 0.27 | 0.93 | 0.97 | 1.72 | 0.42 | 1.02 | 3.9 |
| Natural Gas | 4.84 | 0.38 | 1.19 | 1.15 | 2.13 | 0.54 | 1.36 | 5.8 |
| Fuel Oil | 0.71 | 0.04 | 0.16 | 0.19 | 0.31 | 0.05 | 0.18 | 14.2 |
| Kerosene | 0.05 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.03 | 26.8 |
| LPG | 0.38 | 0.03 | 0.12 | 0.11 | 0.12 | 0.04 | 0.11 | 17.3 |
| Wood | 0.37 | 0.03 | 0.09 | 0.11 | 0.14 | 0.04 | 0.09 | 21.0 |
| Total (excludes primary electricity and wood) | 9.86 | 0.72 | 2.42 | 2.43 | 4.30 | 1.06 | 2.70 | 3.6 |
| Physical Units | | | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | | | |
| Electricity (billion kWh) | 1,140 | 79 | 272 | 286 | 503 | 122 | 300 | 3.9 |
| Natural Gas (billion cf) | 4,708 | 366 | 1,153 | 1,114 | 2,075 | 523 | 1,320 | 5.8 |
| Fuel Oil (million gallons) | 5,105 | 271 | 1,184 | 1,391 | 2,259 | 356 | 1,299 | 14.1 |
| Kerosene (million gallons) | 348 | 73 | 129 | 86 | 60 | 108 | 191 | 26.8 |
| LPG (million gallons) | 4,121 | 275 | 1,315 | 1,170 | 1,360 | 439 | 1,251 | 17.3 |
| Wood (million cords) | 18.7 | 1.5 | 4.7 | 5.4 | 7.2 | 1.8 | 4.7 | 21.0 |
| Million Btu per Household³ | | | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | | | |
| Electricity | | | | | | | | |
| Primary | 108.7 | 73.3 | 90.9 | 107.6 | 134.0 | 83.2 | 90.5 | 2.4 |
| Site | 36.4 | 24.5 | 30.4 | 36.0 | 44.8 | 27.8 | 30.3 | 2.4 |
| Natural Gas | 72.4 | 55.8 | 65.1 | 69.8 | 83.6 | 57.9 | 65.5 | 3.0 |
| Fuel Oil | 81.7 | 68.2 | 73.0 | 77.9 | 92.5 | 65.3 | 76.6 | 5.7 |
| Kerosene | 16.1 | 21.9 | 21.1 | 13.4 | 10.4 | 22.4 | 20.8 | 21.0 |
| LPG | 40.2 | 28.2 | 41.1 | 41.6 | 41.7 | 32.1 | 37.5 | 9.9 |
| Wood | 25.9 | 70.0 | 37.3 | 30.2 | 18.0 | 48.2 | 41.8 | 18.4 |
| Total (excludes primary electricity and wood) | 92.2 | 65.2 | 79.1 | 89.8 | 112.1 | 70.7 | 79.9 | 2.2 |

See footnotes at end of table.

Table CE1-3c. Total Energy Consumption in U.S. Households by Household Income, 2001 (Continued)

| | 2001 Household Income | | | | | Below Poverty Line | Eligible for Federal Assistance ¹ | RSE Row Factors |
|---|-----------------------|--------------------|----------------------|----------------------|------------------|--------------------|--|-----------------|
| | Total | Less than \$10,000 | \$10,000 to \$29,999 | \$30,000 to \$49,999 | \$50,000 or More | | | |
| RSE Column Factor: | 0.5 | 1.7 | 0.9 | 1.0 | 0.9 | 1.4 | 0.9 | |
| Physical Units per Household³ | | | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | | | |
| Electricity (kWh) | 10,656 | 7,190 | 8,906 | 10,545 | 13,131 | 8,152 | 8,871 | 2.4 |
| Natural Gas (thousand cf) | 70 | 54 | 63 | 68 | 81 | 56 | 64 | 3.0 |
| Fuel Oil (gallons) | 589 | 492 | 527 | 562 | 667 | 471 | 553 | 5.7 |
| Kerosene (gallons) | 119 | 162 | 157 | 99 | 77 | 166 | 154 | 21.0 |
| LPG (gallons) | 440 | 308 | 450 | 455 | 456 | 352 | 411 | 9.9 |
| Wood (cords) | 1.3 | 3.5 | 1.9 | 1.5 | 0.9 | 2.4 | 2.1 | 18.4 |
| Million Households | | | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | | | |
| Space Heating ⁴ | 105.3 | 10.8 | 30.2 | 26.5 | 37.8 | 14.6 | 33.2 | 3.4 |
| Electric Air-Conditioning ⁵ | 80.8 | 6.9 | 21.7 | 21.0 | 31.2 | 9.1 | 22.6 | 3.9 |
| Water Heating ⁶ | 106.7 | 11.0 | 30.5 | 27.0 | 38.2 | 14.9 | 33.7 | 3.3 |
| Refrigerators | 106.8 | 11.0 | 30.5 | 27.1 | 38.3 | 14.9 | 33.7 | 3.3 |
| Appliances | 107.0 | 11.0 | 30.6 | 27.1 | 38.3 | 15.0 | 33.8 | 3.3 |
| Quadrillion Btu^a | | | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | | | |
| Space Heating | 4.62 | 0.36 | 1.20 | 1.14 | 1.92 | 0.50 | 1.32 | 4.4 |
| Electric Air-Conditioning | 0.62 | 0.04 | 0.13 | 0.15 | 0.31 | 0.05 | 0.13 | 5.9 |
| Water Heating | 1.68 | 0.13 | 0.40 | 0.42 | 0.73 | 0.19 | 0.47 | 3.7 |
| Refrigerators | 0.53 | 0.05 | 0.14 | 0.13 | 0.22 | 0.06 | 0.15 | 3.6 |
| Other Appliances and Lighting | 2.40 | 0.16 | 0.55 | 0.59 | 1.11 | 0.25 | 0.63 | 3.8 |
| Million Btu per Household^{3,a} | | | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | | | |
| Space Heating | 43.9 | 33.1 | 39.7 | 43.1 | 50.8 | 34.1 | 39.7 | 3.4 |
| Electric Air-Conditioning | 7.7 | 5.1 | 5.9 | 7.2 | 9.9 | 5.8 | 5.8 | 4.0 |
| Water Heating | 15.8 | 11.5 | 13.2 | 15.5 | 19.2 | 12.9 | 14.0 | 2.3 |
| Refrigerators | 5.0 | 4.2 | 4.6 | 4.8 | 5.7 | 4.2 | 4.4 | 2.0 |
| Other Appliances and Lighting | 22.5 | 14.1 | 17.9 | 21.7 | 29.1 | 16.8 | 18.7 | 2.2 |

¹ Below 150 percent of poverty line or 60 percent of median State income.

² The RECS cannot be used to accurately estimate the number of households that do not use electricity.

³ The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

⁴ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁵ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

⁶ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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

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.

**Table CE1-4c. Total Energy Consumption in U.S. Households
by Type of Housing Unit, 2001**

| | Type of Housing Unit | | | | | RSE Row Factors |
|--|----------------------|---------------|------------------------------|--------------------|--------------|-----------------------|
| | Total | Single-Family | Apartments in Buildings With | | Mobile Homes | |
| | | | Two to Four Units | Five or More Units | | |
| RSE Column Factor: | 0.5 | 0.5 | 1.6 | 1.4 | 1.8 | |
| Million Households | | | | | | |
| Total U.S. Households | 107.0 | 73.7 | 9.5 | 17.0 | 6.8 | 4.4 |
| Number of Households, Fuels Used (more than one may apply): | | | | | | |
| Electricity ¹ | 107.0 | 73.7 | 9.5 | 17.0 | 6.8 | 4.4 |
| Natural Gas | 66.9 | 48.5 | 6.2 | 9.9 | 2.3 | 6.0 |
| Fuel Oil | 8.7 | 6.4 | 0.6 | 1.4 | 0.2 | 16.8 |
| Kerosene | 2.9 | 2.2 | Q | Q | 0.6 | 16.7 |
| LPG | 9.4 | 7.6 | Q | Q | 1.6 | 15.0 |
| Wood | 14.5 | 13.2 | 0.4 | 0.3 | 0.6 | 16.2 |
| Quadrillion Btu | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 11.63 | 8.99 | 0.69 | 1.08 | 0.87 | 5.1 |
| Site | 3.89 | 3.01 | 0.23 | 0.36 | 0.29 | 5.1 |
| Natural Gas | 4.84 | 3.98 | 0.45 | 0.28 | 0.14 | 7.5 |
| Fuel Oil | 0.71 | 0.59 | 0.06 | 0.05 | 0.01 | 18.7 |
| Kerosene | 0.05 | 0.03 | Q | Q | 0.02 | 28.4 |
| LPG | 0.38 | 0.31 | Q | Q | 0.06 | 19.6 |
| Wood | 0.37 | 0.36 | Q | Q | 0.01 | 20.1 |
| Total (excludes primary electricity and wood) | 9.86 | 7.91 | 0.74 | 0.70 | 0.52 | 4.4 |
| Physical Units | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | |
| Electricity (billion kWh) | 1,140 | 881 | 68 | 105 | 85 | 5.1 |
| Natural Gas (billion cf) | 4,708 | 3,864 | 434 | 274 | 135 | 7.5 |
| Fuel Oil (million gallons) | 5,105 | 4,221 | 422 | 397 | 65 | 18.7 |
| Kerosene (million gallons) | 348 | 195 | Q | Q | 146 | 28.4 |
| LPG (million gallons) | 4,121 | 3,433 | Q | Q | 649 | 19.6 |
| Wood (million cords) | 18.7 | 17.8 | Q | Q | 0.6 | 20.1 |
| Million Btu per Household² | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 108.7 | 122.1 | 73.2 | 63.3 | 127.2 | 3.0 |
| Site | 36.4 | 40.8 | 24.5 | 21.2 | 42.5 | 3.0 |
| Natural Gas | 72.4 | 82.0 | 71.7 | 28.4 | 60.1 | 3.6 |
| Fuel Oil | 81.7 | 91.1 | 94.4 | 39.5 | 40.0 | 6.5 |
| Kerosene | 16.1 | 11.9 | Q | Q | 32.8 | 19.6 |
| LPG | 40.2 | 41.5 | Q | Q | 36.5 | 10.0 |
| Wood | 25.9 | 26.9 | Q | 2.2 | 19.7 | 18.7 |
| Total (excludes primary electricity and wood) | 92.2 | 107.3 | 78.1 | 41.0 | 75.9 | 2.3 |

See footnotes at end of table.

Table CE1-4c. Total Energy Consumption in U.S. Households by Type of Housing Unit, 2001 (Continued)

| | Type of Housing Unit | | | | | RSE Row Factors |
|---|----------------------|---------------|------------------------------|--------------------|--------------|-----------------|
| | Total | Single-Family | Apartments in Buildings With | | Mobile Homes | |
| | | | Two to Four Units | Five or More Units | | |
| RSE Column Factor: | 0.5 | 0.5 | 1.6 | 1.4 | 1.8 | |
| Physical Units per Household² | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | |
| Electricity (kWh) | 10,656 | 11,965 | 7,176 | 6,204 | 12,469 | 3.0 |
| Natural Gas (thousand cf) | 70 | 80 | 70 | 28 | 58 | 3.6 |
| Fuel Oil (gallons) | 589 | 657 | 680 | 285 | 288 | 6.5 |
| Kerosene (gallons) | 119 | 88 | Q | Q | 243 | 19.6 |
| LPG (gallons) | 440 | 454 | Q | Q | 399 | 10.0 |
| Wood (cords) | 1.3 | 1.3 | Q | 0.1 | 1.0 | 18.7 |
| Million Households | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | |
| Space Heating ³ | 105.3 | 72.8 | 9.4 | 16.3 | 6.8 | 4.4 |
| Electric Air-Conditioning ⁴ | 80.8 | 57.6 | 6.3 | 11.8 | 5.1 | 4.9 |
| Water Heating ⁵ | 106.7 | 73.5 | 9.5 | 16.9 | 6.8 | 4.4 |
| Refrigerators | 106.8 | 73.6 | 9.5 | 16.9 | 6.8 | 4.4 |
| Appliances | 107.0 | 73.7 | 9.5 | 17.0 | 6.8 | 4.4 |
| Quadrillion Btu^a | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | |
| Space Heating | 4.62 | 3.75 | 0.41 | 0.24 | 0.21 | 5.3 |
| Electric Air-Conditioning | 0.62 | 0.50 | 0.03 | 0.05 | 0.04 | 7.9 |
| Water Heating | 1.68 | 1.31 | 0.12 | 0.17 | 0.08 | 4.5 |
| Refrigerators | 0.53 | 0.41 | 0.03 | 0.05 | 0.03 | 4.6 |
| Other Appliances and Lighting | 2.40 | 1.93 | 0.14 | 0.18 | 0.15 | 4.6 |
| Million Btu per Household^{2,a} | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | |
| Space Heating | 43.9 | 51.5 | 44.2 | 14.8 | 31.3 | 3.9 |
| Electric Air-Conditioning | 7.7 | 8.7 | 5.0 | 4.6 | 7.4 | 5.5 |
| Water Heating | 15.8 | 17.9 | 12.4 | 10.0 | 12.2 | 2.7 |
| Refrigerators | 5.0 | 5.6 | 3.7 | 3.2 | 5.1 | 2.3 |
| Other Appliances and Lighting | 22.5 | 26.2 | 15.1 | 10.6 | 21.9 | 2.5 |

¹ The RECS cannot be used to accurately estimate the number of households that do not use electricity.

² The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

³ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁴ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

⁵ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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

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.

Table CE1-5.1u. Total Energy Consumption and Expenditures by Household Member and Demographics, 2001

| Household Demographics | Total End-Use Energy | | | | | | | | RSE Row Factors |
|--|-----------------------|-------------------------------|--------------------------------|---------------------------|------------------------|-------------------|---------------------------|------------------------|-----------------|
| | Households (millions) | Total | | Per Household | | | Per Household Member | | |
| | | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | Household Members | Consumption (million Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 1.3 | 1.5 | 1.5 | 0.8 | 0.7 | 0.7 | 0.9 | 0.8 | |
| Total Households | 107.0 | 9.86 | 159.74 | 92.2 | 1,493 | 2.6 | 36.0 | 583 | 1.2 |
| Household Size | | | | | | | | | |
| 1 Person | 28.2 | 1.84 | 29.67 | 65.5 | 1,053 | 1.0 | 65.5 | 1,053 | 2.0 |
| 2 Persons | 35.1 | 3.25 | 52.18 | 92.6 | 1,486 | 2.0 | 46.3 | 743 | 1.8 |
| 3 Persons | 17.0 | 1.67 | 27.38 | 98.2 | 1,608 | 3.0 | 32.7 | 536 | 2.5 |
| 4 Persons | 15.6 | 1.71 | 28.17 | 110.0 | 1,808 | 4.0 | 27.5 | 452 | 2.7 |
| 5 Persons | 7.1 | 0.87 | 14.27 | 122.9 | 2,006 | 5.0 | 24.6 | 401 | 5.2 |
| 6 or More Persons | 4.0 | 0.51 | 8.08 | 127.3 | 2,022 | 6.7 | 18.9 | 301 | 4.5 |
| 2001 Household Income Category | | | | | | | | | |
| Less than \$9,999 | 11.0 | 0.72 | 11.47 | 65.2 | 1,039 | 1.9 | 34.8 | 554 | 5.0 |
| \$10,000 to \$14,999 | 7.7 | 0.53 | 8.62 | 69.7 | 1,124 | 2.1 | 32.7 | 528 | 4.9 |
| \$15,000 to \$19,999 | 8.9 | 0.72 | 11.49 | 80.5 | 1,290 | 2.3 | 35.2 | 565 | 4.6 |
| \$20,000 to \$29,999 | 14.0 | 1.17 | 18.38 | 83.4 | 1,315 | 2.3 | 35.5 | 561 | 3.3 |
| \$30,000 to \$39,999 | 13.9 | 1.21 | 19.43 | 86.9 | 1,398 | 2.6 | 34.0 | 547 | 3.0 |
| \$40,000 to \$49,999 | 13.2 | 1.22 | 20.03 | 92.8 | 1,518 | 2.7 | 34.4 | 562 | 3.5 |
| \$50,000 to \$74,999 | 21.7 | 2.22 | 36.47 | 102.5 | 1,683 | 2.9 | 35.1 | 577 | 2.6 |
| \$75,000 to \$99,999 | 8.1 | 0.91 | 14.75 | 112.5 | 1,825 | 2.9 | 38.5 | 624 | 4.3 |
| \$100,000 or More | 8.6 | 1.17 | 19.09 | 136.1 | 2,231 | 3.0 | 44.7 | 732 | 4.8 |
| Income Relative to Poverty Line | | | | | | | | | |
| Below 100 Percent | 15.0 | 1.06 | 17.04 | 70.7 | 1,138 | 2.6 | 27.6 | 444 | 4.0 |
| 100 to 150 Percent | 11.5 | 0.95 | 15.19 | 83.0 | 1,324 | 2.7 | 30.6 | 488 | 3.8 |
| Above 150 Percent | 80.5 | 7.85 | 127.51 | 97.5 | 1,583 | 2.5 | 38.4 | 623 | 1.3 |
| Eligible for Federal Assistance¹ | | | | | | | | | |
| Yes | 33.8 | 2.70 | 42.94 | 79.9 | 1,270 | 2.7 | 30.1 | 479 | 2.4 |
| No | 73.2 | 7.16 | 116.80 | 97.9 | 1,596 | 2.5 | 38.8 | 633 | 1.4 |
| Age of Householder | | | | | | | | | |
| Under 25 Years | 6.1 | 0.40 | 7.04 | 65.9 | 1,148 | 2.6 | 24.9 | 434 | 4.7 |
| 25 to 34 Years | 16.8 | 1.39 | 23.02 | 82.4 | 1,367 | 3.0 | 27.2 | 451 | 2.8 |
| 35 to 44 Years | 22.3 | 2.24 | 36.35 | 100.1 | 1,626 | 3.3 | 30.4 | 494 | 2.6 |
| 45 to 54 Years | 20.7 | 2.16 | 34.77 | 104.4 | 1,678 | 2.8 | 37.9 | 610 | 2.9 |
| 55 to 64 Years | 14.5 | 1.41 | 23.14 | 97.3 | 1,593 | 2.1 | 45.6 | 747 | 3.1 |
| 65 to 74 Years | 12.6 | 1.11 | 17.52 | 88.3 | 1,391 | 1.8 | 49.6 | 780 | 3.5 |
| 75 Years or More | 11.2 | 0.92 | 13.98 | 81.4 | 1,243 | 1.5 | 54.2 | 828 | 4.0 |
| No answer/refused | 2.6 | 0.23 | 3.89 | 90.4 | 1,522 | 2.3 | 39.0 | 657 | 7.6 |
| Race of Householder | | | | | | | | | |
| Non-Hispanic | 96.8 | 9.15 | 147.60 | 94.5 | 1,524 | 2.5 | 38.0 | 613 | 1.3 |
| Non-Hispanic White | 78.7 | 7.49 | 120.71 | 95.2 | 1,533 | 2.4 | 39.6 | 637 | 1.5 |
| Non-Hispanic Black | 12.7 | 1.28 | 20.10 | 100.8 | 1,581 | 2.7 | 37.6 | 589 | 3.8 |
| Multi-racial ² | 0.9 | 0.07 | 1.17 | 75.4 | 1,343 | 2.8 | 26.8 | 477 | 13.6 |
| Other ³ | 4.5 | 0.31 | 5.62 | 69.0 | 1,244 | 3.3 | 21.0 | 378 | 6.2 |
| Hispanic | 10.2 | 0.71 | 12.15 | 70.0 | 1,195 | 3.3 | 21.3 | 363 | 4.5 |

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Respondents could select one or more race categories to describe themselves.

³ Includes Native American, Native Alaskan, Asian, and Pacific Islander households.

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.

Table CE1-5.2u. Total Energy Consumption and Expenditures by Square Feet and Household Demographics, 2001

| Household Demographics | Total End-Use Energy | | | | | | | | RSE Row Factors |
|--|-----------------------|-------------------------------|--------------------------------|---------------------------|------------------------|-------------|------------------------|------------------------|-----------------|
| | Households (millions) | Total | | Per Household | | | Per Square Feet | | |
| | | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | Square Feet | Consumption (1000 Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 1.3 | 1.5 | 1.4 | 0.8 | 0.7 | 0.9 | 0.8 | 0.8 | |
| Total Households | 107.0 | 9.86 | 159.74 | 92.2 | 1,493 | 1,975 | 46.7 | 0.76 | 1.3 |
| Household Size | | | | | | | | | |
| 1 Person | 28.2 | 1.84 | 29.67 | 65.5 | 1,053 | 1,433 | 45.7 | 0.74 | 2.2 |
| 2 Persons | 35.1 | 3.25 | 52.18 | 92.6 | 1,486 | 2,079 | 44.6 | 0.71 | 2.0 |
| 3 Persons | 17.0 | 1.67 | 27.38 | 98.2 | 1,608 | 2,100 | 46.8 | 0.77 | 2.8 |
| 4 Persons | 15.6 | 1.71 | 28.17 | 110.0 | 1,808 | 2,343 | 46.9 | 0.77 | 2.9 |
| 5 Persons | 7.1 | 0.87 | 14.27 | 122.9 | 2,006 | 2,317 | 53.0 | 0.87 | 5.2 |
| 6 or More Persons | 4.0 | 0.51 | 8.08 | 127.3 | 2,022 | 2,308 | 55.2 | 0.88 | 5.3 |
| 2001 Household Income Category | | | | | | | | | |
| Less than \$9,999 | 11.0 | 0.72 | 11.47 | 65.2 | 1,039 | 1,168 | 55.9 | 0.89 | 4.6 |
| \$10,000 to \$14,999 | 7.7 | 0.53 | 8.62 | 69.7 | 1,124 | 1,328 | 52.5 | 0.85 | 4.4 |
| \$15,000 to \$19,999 | 8.9 | 0.72 | 11.49 | 80.5 | 1,290 | 1,494 | 53.9 | 0.86 | 4.2 |
| \$20,000 to \$29,999 | 14.0 | 1.17 | 18.38 | 83.4 | 1,315 | 1,555 | 53.6 | 0.85 | 3.1 |
| \$30,000 to \$39,999 | 13.9 | 1.21 | 19.43 | 86.9 | 1,398 | 1,725 | 50.4 | 0.81 | 3.1 |
| \$40,000 to \$49,999 | 13.2 | 1.22 | 20.03 | 92.8 | 1,518 | 2,068 | 44.9 | 0.73 | 3.6 |
| \$50,000 to \$74,999 | 21.7 | 2.22 | 36.47 | 102.5 | 1,683 | 2,360 | 43.4 | 0.71 | 2.7 |
| \$75,000 to \$99,999 | 8.1 | 0.91 | 14.75 | 112.5 | 1,825 | 2,690 | 41.8 | 0.68 | 4.2 |
| \$100,000 or More | 8.6 | 1.17 | 19.09 | 136.1 | 2,231 | 3,395 | 40.1 | 0.66 | 4.5 |
| Income Relative to Poverty Line | | | | | | | | | |
| Below 100 Percent | 15.0 | 1.06 | 17.04 | 70.7 | 1,138 | 1,227 | 57.6 | 0.93 | 3.8 |
| 100 to 150 Percent | 11.5 | 0.95 | 15.19 | 83.0 | 1,324 | 1,494 | 55.6 | 0.89 | 3.7 |
| Above 150 Percent | 80.5 | 7.85 | 127.51 | 97.5 | 1,583 | 2,183 | 44.7 | 0.73 | 1.4 |
| Eligible for Federal Assistance¹ | | | | | | | | | |
| Yes | 33.8 | 2.70 | 42.94 | 79.9 | 1,270 | 1,435 | 55.7 | 0.89 | 2.4 |
| No | 73.2 | 7.16 | 116.80 | 97.9 | 1,596 | 2,225 | 44.0 | 0.72 | 1.5 |
| Age of Householder | | | | | | | | | |
| Under 25 Years | 6.1 | 0.40 | 7.04 | 65.9 | 1,148 | 1,154 | 57.1 | 1.00 | 4.6 |
| 25 to 34 Years | 16.8 | 1.39 | 23.02 | 82.4 | 1,367 | 1,673 | 49.2 | 0.82 | 2.9 |
| 35 to 44 Years | 22.3 | 2.24 | 36.35 | 100.1 | 1,626 | 2,096 | 47.7 | 0.78 | 2.6 |
| 45 to 54 Years | 20.7 | 2.16 | 34.77 | 104.4 | 1,678 | 2,307 | 45.2 | 0.73 | 2.9 |
| 55 to 64 Years | 14.5 | 1.41 | 23.14 | 97.3 | 1,593 | 2,207 | 44.1 | 0.72 | 3.1 |
| 65 to 74 Years | 12.6 | 1.11 | 17.52 | 88.3 | 1,391 | 1,932 | 45.7 | 0.72 | 3.6 |
| 75 Years or More | 11.2 | 0.92 | 13.98 | 81.4 | 1,243 | 1,773 | 45.9 | 0.70 | 4.0 |
| No answer/refused | 2.6 | 0.23 | 3.89 | 90.4 | 1,522 | 1,977 | 45.7 | 0.77 | 7.3 |
| Race of Householder | | | | | | | | | |
| Non-Hispanic | 96.8 | 9.15 | 147.60 | 94.5 | 1,524 | 2,035 | 46.5 | 0.75 | 1.4 |
| Non-Hispanic White | 78.7 | 7.49 | 120.71 | 95.2 | 1,533 | 2,087 | 45.6 | 0.73 | 1.6 |
| Non-Hispanic Black | 12.7 | 1.28 | 20.10 | 100.8 | 1,581 | 1,827 | 55.2 | 0.87 | 4.5 |
| Multi-racial ² | 0.9 | 0.07 | 1.17 | 75.4 | 1,343 | 1,526 | 49.4 | 0.88 | 12.9 |
| Other ³ | 4.5 | 0.31 | 5.62 | 69.0 | 1,244 | 1,808 | 38.1 | 0.69 | 6.8 |
| Hispanic | 10.2 | 0.71 | 12.15 | 70.0 | 1,195 | 1,407 | 49.8 | 0.85 | 4.3 |

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Respondents could select one or more race categories to describe themselves.

³ Includes Native American, Native Alaskan, Asian, and Pacific Islander households.

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.

Table CE1-6.1u. Total Energy Consumption and Expenditures by Household Member and Usage Indicators, 2001¹

| Usage Indicators | Total End-Use Energy | | | | | | | | RSE Row Factors |
|--|-----------------------|-------------------------------|--------------------------------|---------------------------|------------------------|-------------------|---------------------------|------------------------|-----------------|
| | Households (millions) | Total | | Per Household | | | Per Household Member | | |
| | | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | Household Members | Consumption (million Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 1.5 | 1.6 | 1.6 | 0.7 | 0.7 | 0.7 | 0.9 | 0.8 | |
| Total Households | 107.0 | 9.86 | 159.74 | 92.2 | 1,493 | 2.6 | 36.0 | 583 | 1.3 |
| Weekday Home Activities | | | | | | | | | |
| Home Used for Business | | | | | | | | | |
| Yes | 7.6 | 0.87 | 14.06 | 114.7 | 1,859 | 2.9 | 39.2 | 636 | 4.3 |
| No/Don't Know | 99.4 | 9.00 | 145.69 | 90.5 | 1,465 | 2.5 | 35.7 | 578 | 1.4 |
| Energy-Intensive Activity | | | | | | | | | |
| Yes | 1.7 | 0.19 | 3.10 | 112.7 | 1,820 | 2.8 | 40.9 | 660 | 9.1 |
| No/Don't Know | 105.3 | 9.67 | 156.65 | 91.9 | 1,488 | 2.6 | 35.9 | 581 | 1.3 |
| Someone Home All Day | | | | | | | | | |
| Yes | 53.0 | 5.17 | 82.88 | 97.6 | 1,563 | 2.7 | 35.9 | 575 | 1.9 |
| No/Don't Know | 54.0 | 4.69 | 76.86 | 86.9 | 1,424 | 2.4 | 36.0 | 590 | 1.5 |
| Total Floorspace Category¹ (square feet) | | | | | | | | | |
| Fewer than 500 | 3.9 | 0.15 | 2.96 | 39.0 | 759 | 1.8 | 21.7 | 423 | 6.7 |
| 500 to 999 | 21.8 | 1.19 | 20.99 | 54.8 | 964 | 2.1 | 26.5 | 465 | 3.0 |
| 1,000 to 1,499 | 22.7 | 1.71 | 29.34 | 75.4 | 1,294 | 2.5 | 30.3 | 520 | 2.7 |
| 1,500 to 1,999 | 16.6 | 1.56 | 25.33 | 93.5 | 1,522 | 2.7 | 34.8 | 567 | 2.7 |
| 2,000 to 2,499 | 13.5 | 1.45 | 22.62 | 106.8 | 1,672 | 2.7 | 39.3 | 616 | 3.1 |
| 2,500 to 2,999 | 9.3 | 1.08 | 16.40 | 115.8 | 1,759 | 2.7 | 42.7 | 648 | 3.4 |
| 3,000 to 3,499 | 6.9 | 0.87 | 13.73 | 126.8 | 1,996 | 3.1 | 40.5 | 636 | 4.7 |
| 3,500 to 3,999 | 4.1 | 0.58 | 9.01 | 143.6 | 2,224 | 3.2 | 45.0 | 697 | 5.5 |
| 4,000 or More | 8.2 | 1.27 | 19.35 | 155.2 | 2,359 | 3.0 | 52.0 | 790 | 3.9 |
| Year of Construction | | | | | | | | | |
| 1939 or Before | 19.0 | 2.16 | 30.57 | 113.9 | 1,613 | 2.5 | 46.0 | 651 | 3.4 |
| 1940 to 1949 | 7.6 | 0.76 | 11.61 | 99.8 | 1,518 | 2.7 | 37.6 | 572 | 4.9 |
| 1950 to 1959 | 14.2 | 1.39 | 21.25 | 97.9 | 1,500 | 2.5 | 39.1 | 599 | 3.1 |
| 1960 to 1969 | 13.8 | 1.19 | 19.48 | 86.5 | 1,414 | 2.4 | 35.7 | 583 | 3.4 |
| 1970 to 1979 | 18.8 | 1.48 | 26.03 | 79.0 | 1,388 | 2.5 | 31.6 | 555 | 3.2 |
| 1980 to 1989 | 18.2 | 1.45 | 26.22 | 79.7 | 1,438 | 2.5 | 31.9 | 575 | 3.4 |
| 1990 to 1999 | 14.5 | 1.33 | 22.91 | 91.3 | 1,575 | 2.9 | 31.2 | 539 | 5.3 |
| 2000 to 2001 ² | 0.9 | 0.10 | 1.67 | 111.1 | 1,845 | 3.4 | 32.9 | 547 | 15.4 |
| Housing Unit Type and Number of Bedrooms | | | | | | | | | |
| Mobile Homes | | | | | | | | | |
| Less than 3 Bedrooms | 3.7 | 0.26 | 4.58 | 71.3 | 1,234 | 2.0 | 35.4 | 612 | 6.4 |
| 3 or More Bedrooms | 3.1 | 0.25 | 4.52 | 81.4 | 1,458 | 3.3 | 25.0 | 447 | 7.1 |
| Single-Family Detached | | | | | | | | | |
| Less than 3 Bedrooms | 12.3 | 1.04 | 16.42 | 85.1 | 1,340 | 2.0 | 43.0 | 678 | 3.3 |
| 3 Bedrooms | 33.5 | 3.41 | 54.45 | 101.7 | 1,624 | 2.7 | 38.2 | 610 | 2.2 |
| 4 Bedrooms | 14.4 | 1.87 | 29.84 | 130.2 | 2,079 | 3.3 | 39.0 | 623 | 3.2 |
| 5 or More Bedrooms | 3.0 | 0.52 | 8.10 | 176.5 | 2,733 | 3.8 | 46.2 | 716 | 7.8 |
| Single-Family Attached | | | | | | | | | |
| Less than 3 Bedrooms | 3.9 | 0.31 | 4.64 | 78.5 | 1,184 | 2.1 | 37.8 | 570 | 8.3 |
| 3 Bedrooms | 4.6 | 0.46 | 7.45 | 101.4 | 1,627 | 2.7 | 37.5 | 601 | 6.0 |
| 4 or More Bedrooms | 2.1 | 0.29 | 4.13 | 139.2 | 1,969 | 3.7 | 37.2 | 526 | 9.9 |
| Apartments in Buildings | | | | | | | | | |
| With 2 to 4 Units | | | | | | | | | |
| Less than 2 Bedrooms | 2.6 | 0.15 | 2.35 | 57.6 | 902 | 1.7 | 33.8 | 530 | 10.8 |
| 2 Bedrooms | 5.0 | 0.38 | 6.37 | 75.2 | 1,264 | 2.1 | 35.1 | 590 | 5.4 |
| 3 or More Bedrooms | 1.8 | 0.21 | 3.25 | 114.9 | 1,759 | 3.4 | 33.4 | 511 | 9.9 |

See footnotes at end of table.

Table CE1-6.1u. Total Energy Consumption and Expenditures by Household Member and Usage Indicators, 2001¹ (Continued)

| Usage Indicators | Total End-Use Energy | | | | | | | | RSE Row Factors |
|---|-----------------------|-------------------------------|--------------------------------|---------------------------|------------------------|-------------------|---------------------------|------------------------|-----------------|
| | Households (millions) | Total | | Per Household | | | Per Household Member | | |
| | | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | Household Members | Consumption (million Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 1.5 | 1.6 | 1.6 | 0.7 | 0.7 | 0.7 | 0.9 | 0.8 | |
| Apartments in Buildings With 5 or More Units | 17.0 | 0.70 | 13.66 | 41.0 | 803 | 2.0 | 20.5 | 402 | 4.1 |
| Less than 2 Bedrooms | 8.5 | 0.28 | 5.41 | 32.7 | 635 | 1.5 | 21.3 | 414 | 5.0 |
| 2 Bedrooms | 7.0 | 0.33 | 6.37 | 47.2 | 908 | 2.3 | 20.7 | 397 | 6.8 |
| 3 or More Bedrooms | 1.5 | 0.09 | 1.88 | 60.2 | 1,283 | 3.3 | 18.0 | 384 | 10.9 |

¹ Does **not** include floorspace for unheated garages.

² 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.

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.

Table CE1-6.2u. Total Energy Consumption and Expenditures by Square Feet and Usage Indicators, 2001

| Usage Indicators | Total End-Use Energy | | | | | | | | RSE Row Factors |
|--|----------------------|-------------------------------|--------------------------------|---------------------------|------------------------|-------------|------------------------|------------------------|-----------------|
| | Households (million) | Total | | Per Household | | | Per Square Feet | | |
| | | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | Square Feet | Consumption (1000 Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 1.6 | 1.7 | 1.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | |
| Total Households | 107.0 | 9.86 | 159.74 | 92.2 | 1,493 | 1,975 | 46.7 | 0.76 | 1.4 |
| Weekday Home Activities | | | | | | | | | |
| Home Used for Business | | | | | | | | | |
| Yes | 7.6 | 0.87 | 14.06 | 114.7 | 1,859 | 2,586 | 44.3 | 0.72 | 4.4 |
| No/Don't Know | 99.4 | 9.00 | 145.69 | 90.5 | 1,465 | 1,929 | 46.9 | 0.76 | 1.5 |
| Energy-Intensive Activity | | | | | | | | | |
| Yes | 1.7 | 0.19 | 3.10 | 112.7 | 1,820 | 2,529 | 44.6 | 0.72 | 8.3 |
| No/Don't Know | 105.3 | 9.67 | 156.65 | 91.9 | 1,488 | 1,966 | 46.7 | 0.76 | 1.4 |
| Someone Home All Day | | | | | | | | | |
| Yes | 53.0 | 5.17 | 82.88 | 97.6 | 1,563 | 2,065 | 47.3 | 0.76 | 1.9 |
| No/Don't Know | 54.0 | 4.69 | 76.86 | 86.9 | 1,424 | 1,887 | 46.1 | 0.75 | 1.7 |
| Total Floorspace Category¹ (square feet) | | | | | | | | | |
| Fewer than 500 | 3.9 | 0.15 | 2.96 | 39.0 | 759 | 402 | 96.9 | 1.89 | 5.6 |
| 500 to 999 | 21.8 | 1.19 | 20.99 | 54.8 | 964 | 770 | 71.2 | 1.25 | 2.7 |
| 1,000 to 1,499 | 22.7 | 1.71 | 29.34 | 75.4 | 1,294 | 1,232 | 61.2 | 1.05 | 2.4 |
| 1,500 to 1,999 | 16.6 | 1.56 | 25.33 | 93.5 | 1,522 | 1,737 | 53.8 | 0.88 | 2.5 |
| 2,000 to 2,499 | 13.5 | 1.45 | 22.62 | 106.8 | 1,672 | 2,227 | 48.0 | 0.75 | 2.7 |
| 2,500 to 2,999 | 9.3 | 1.08 | 16.40 | 115.8 | 1,759 | 2,733 | 42.4 | 0.64 | 2.9 |
| 3,000 to 3,499 | 6.9 | 0.87 | 13.73 | 126.8 | 1,996 | 3,226 | 39.3 | 0.62 | 4.4 |
| 3,500 to 3,999 | 4.1 | 0.58 | 9.01 | 143.6 | 2,224 | 3,697 | 38.8 | 0.60 | 4.7 |
| 4,000 or More | 8.2 | 1.27 | 19.35 | 155.2 | 2,359 | 5,280 | 29.4 | 0.45 | 3.6 |
| Year of Construction | | | | | | | | | |
| 1939 or Before | 19.0 | 2.16 | 30.57 | 113.9 | 1,613 | 2,034 | 56.0 | 0.79 | 3.2 |
| 1940 to 1949 | 7.6 | 0.76 | 11.61 | 99.8 | 1,518 | 1,853 | 53.9 | 0.82 | 4.9 |
| 1950 to 1959 | 14.2 | 1.39 | 21.25 | 97.9 | 1,500 | 2,004 | 48.9 | 0.75 | 3.2 |
| 1960 to 1969 | 13.8 | 1.19 | 19.48 | 86.5 | 1,414 | 1,836 | 47.1 | 0.77 | 3.4 |
| 1970 to 1979 | 18.8 | 1.48 | 26.03 | 79.0 | 1,388 | 1,737 | 45.5 | 0.80 | 3.3 |
| 1980 to 1989 | 18.2 | 1.45 | 26.22 | 79.7 | 1,438 | 1,925 | 41.4 | 0.75 | 3.5 |
| 1990 to 1999 | 14.5 | 1.33 | 22.91 | 91.3 | 1,575 | 2,370 | 38.5 | 0.66 | 5.4 |
| 2000 to 2001 ² | 0.9 | 0.10 | 1.67 | 111.1 | 1,845 | 3,036 | 36.6 | 0.61 | 16.3 |
| Housing Unit Type and Number of Bedrooms | | | | | | | | | |
| Mobile Homes | 6.8 | 0.52 | 9.09 | 75.9 | 1,336 | 1,055 | 72.0 | 1.27 | 5.1 |
| Less than 3 Bedrooms | 3.7 | 0.26 | 4.58 | 71.3 | 1,234 | 835 | 85.5 | 1.48 | 5.7 |
| 3 or More Bedrooms | 3.1 | 0.25 | 4.52 | 81.4 | 1,458 | 1,319 | 61.7 | 1.11 | 6.6 |
| Single-Family Detached | 63.1 | 6.85 | 108.81 | 108.5 | 1,724 | 2,428 | 44.7 | 0.71 | 1.7 |
| Less than 3 Bedrooms | 12.3 | 1.04 | 16.42 | 85.1 | 1,340 | 1,611 | 52.8 | 0.83 | 3.3 |
| 3 Bedrooms | 33.5 | 3.41 | 54.45 | 101.7 | 1,624 | 2,288 | 44.5 | 0.71 | 2.3 |
| 4 Bedrooms | 14.4 | 1.87 | 29.84 | 130.2 | 2,079 | 3,064 | 42.5 | 0.68 | 3.1 |
| 5 or More Bedrooms | 3.0 | 0.52 | 8.10 | 176.5 | 2,733 | 4,305 | 41.0 | 0.63 | 7.2 |
| Single-Family Attached | 10.6 | 1.06 | 16.22 | 100.4 | 1,531 | 2,201 | 45.6 | 0.70 | 4.8 |
| Less than 3 Bedrooms | 3.9 | 0.31 | 4.64 | 78.5 | 1,184 | 1,548 | 50.7 | 0.77 | 7.6 |
| 3 Bedrooms | 4.6 | 0.46 | 7.45 | 101.4 | 1,627 | 2,304 | 44.0 | 0.71 | 6.0 |
| 4 or More Bedrooms | 2.1 | 0.29 | 4.13 | 139.2 | 1,969 | 3,193 | 43.6 | 0.62 | 7.8 |
| Apartments in Buildings | | | | | | | | | |
| With 2 to 4 Units | 9.5 | 0.74 | 11.97 | 78.1 | 1,261 | 1,393 | 56.1 | 0.91 | 4.7 |
| Less than 2 Bedrooms | 2.6 | 0.15 | 2.35 | 57.6 | 902 | 899 | 64.1 | 1.00 | 8.6 |
| 2 Bedrooms | 5.0 | 0.38 | 6.37 | 75.2 | 1,264 | 1,403 | 53.6 | 0.90 | 5.3 |
| 3 or More Bedrooms | 1.8 | 0.21 | 3.25 | 114.9 | 1,759 | 2,061 | 55.8 | 0.85 | 10.3 |

See footnotes at end of table.

Table CE1-6.2u. Total Energy Consumption and Expenditures by Square Feet and Usage Indicators, 2001 (Continued)

| Usage Indicators | Total End-Use Energy | | | | | | | | RSE Row Factors |
|---|----------------------|-------------------------------|--------------------------------|---------------------------|------------------------|-------------|------------------------|------------------------|-----------------|
| | Households (million) | Total | | Per Household | | | Per Square Feet | | |
| | | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | Square Feet | Consumption (1000 Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 1.6 | 1.7 | 1.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | |
| Apartments in Buildings With 5 or More Units | 17.0 | 0.70 | 13.66 | 41.0 | 803 | 847 | 48.5 | 0.95 | 3.8 |
| Less than 2 Bedrooms | 8.5 | 0.28 | 5.41 | 32.7 | 635 | 637 | 51.3 | 1.00 | 4.2 |
| 2 Bedrooms | 7.0 | 0.33 | 6.37 | 47.2 | 908 | 1,009 | 46.8 | 0.90 | 6.2 |
| 3 or More Bedrooms | 1.5 | 0.09 | 1.88 | 60.2 | 1,283 | 1,294 | 46.5 | 0.99 | 9.8 |

¹ Does **not** include floorspace for unheated garages.

² 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.

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.

Table CE1-7c. Total Energy Consumption in U.S. Households by Four Most Populated States, 2001

| | Four Most Populated States | | | | | RSE Row Factors |
|--|----------------------------|----------|------------|-------|---------|-----------------|
| | Total U.S. | New York | California | Texas | Florida | |
| | 0.4 | 1.2 | 0.9 | 1.5 | 1.5 | |
| Million Households | | | | | | |
| Total U.S. Households | 107.0 | 7.1 | 12.3 | 7.7 | 6.3 | NE |
| Number of Households, Fuels Used (more than one may apply): | | | | | | |
| Electricity ¹ | 107.0 | 7.1 | 12.3 | 7.7 | 6.3 | NE |
| Natural Gas | 66.9 | 5.4 | 10.5 | 4.9 | 1.3 | 4.1 |
| Fuel Oil | 8.7 | 2.2 | Q | Q | Q | 19.0 |
| Kerosene | 2.9 | 0.2 | 0.3 | Q | Q | 24.6 |
| LPG | 9.4 | 0.5 | 0.7 | 0.3 | 0.4 | 24.0 |
| Wood | 14.5 | 0.7 | 2.3 | 1.1 | 0.5 | 17.3 |
| Quadrillion Btu | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 11.63 | 0.43 | 0.75 | 1.17 | 0.98 | 4.6 |
| Site | 3.89 | 0.14 | 0.25 | 0.39 | 0.33 | 4.6 |
| Natural Gas | 4.84 | 0.39 | 0.49 | 0.28 | 0.03 | 9.4 |
| Fuel Oil | 0.71 | 0.16 | Q | Q | Q | 21.9 |
| Kerosene | 0.05 | (*) | 0.01 | Q | Q | 32.1 |
| LPG | 0.38 | 0.01 | 0.02 | 0.01 | (*) | 27.9 |
| Wood | 0.37 | 0.06 | 0.04 | 0.01 | (*) | 21.8 |
| Total (excludes primary electricity and wood) | 9.86 | 0.70 | 0.77 | 0.68 | 0.37 | 3.1 |
| Physical Units | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | |
| Electricity (billion kWh) | 1,140 | 42 | 73 | 115 | 97 | 4.6 |
| Natural Gas (billion cf) | 4,708 | 378 | 475 | 271 | 33 | 9.4 |
| Fuel Oil (million gallons) | 5,105 | 1,123 | Q | Q | Q | 21.9 |
| Kerosene (million gallons) | 348 | 29 | 41 | Q | Q | 32.1 |
| LPG (million gallons) | 4,121 | 93 | 231 | 96 | 40 | 27.9 |
| Wood (million cords) | 18.7 | 2.8 | 1.8 | 0.6 | 0.2 | 21.8 |
| Million Btu per Household² | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 108.7 | 60.9 | 60.7 | 152.4 | 155.6 | 4.6 |
| Site | 36.4 | 20.4 | 20.3 | 51.0 | 52.0 | 4.6 |
| Natural Gas | 72.4 | 71.4 | 46.3 | 57.0 | 26.3 | 6.6 |
| Fuel Oil | 81.7 | 70.9 | Q | Q | Q | 5.2 |
| Kerosene | 16.1 | 22.3 | 20.4 | Q | Q | 31.7 |
| LPG | 40.2 | 16.9 | 30.7 | 30.7 | 9.8 | 20.0 |
| Wood | 25.9 | 80.5 | 15.3 | 11.1 | 8.9 | 15.9 |
| Total (excludes primary electricity and wood) | 92.2 | 99.0 | 62.3 | 88.5 | 58.1 | 3.1 |

See footnotes at end of table.

Table CE1-7c. Total Energy Consumption in U.S. Households by Four Most Populated States, 2001 (Continued)

| | Four Most Populated States | | | | | RSE Row Factors |
|---|----------------------------|----------|------------|--------|---------|-----------------|
| | Total U.S. | New York | California | Texas | Florida | |
| RSE Column Factor: | 0.4 | 1.2 | 0.9 | 1.5 | 1.5 | |
| Physical Units per Household² | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | |
| Electricity (kWh) | 10,656 | 5,974 | 5,948 | 14,937 | 15,250 | 4.6 |
| Natural Gas (thousand cf) | 70 | 69 | 45 | 55 | 26 | 6.6 |
| Fuel Oil (gallons) | 589 | 511 | Q | Q | Q | 5.2 |
| Kerosene (gallons) | 119 | 165 | 151 | Q | Q | 31.7 |
| LPG (gallons) | 440 | 185 | 336 | 336 | 108 | 20.0 |
| Wood (cords) | 1.3 | 4.0 | 0.8 | 0.6 | 0.4 | 15.9 |
| Million Households | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | |
| Space Heating ³ | 105.3 | 7.0 | 11.8 | 7.7 | 6.2 | 0.7 |
| Electric Air-Conditioning ⁴ | 80.8 | 4.7 | 5.2 | 7.4 | 6.1 | 2.6 |
| Water Heating ⁵ | 106.7 | 7.0 | 12.2 | 7.6 | 6.3 | NE |
| Refrigerators | 106.8 | 7.1 | 12.3 | 7.7 | 6.3 | NE |
| Appliances | 107.0 | 7.1 | 12.3 | 7.7 | 6.3 | NE |
| Quadrillion Btu^a | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | |
| Space Heating | 4.62 | 0.41 | 0.27 | 0.20 | 0.03 | 6.7 |
| Electric Air-Conditioning | 0.62 | 0.01 | 0.02 | 0.11 | 0.10 | 8.1 |
| Water Heating | 1.68 | 0.13 | 0.20 | 0.12 | 0.06 | 3.6 |
| Refrigerators | 0.53 | 0.03 | 0.04 | 0.05 | 0.04 | 4.0 |
| Other Appliances and Lighting | 2.40 | 0.13 | 0.24 | 0.20 | 0.14 | 3.2 |
| Million Btu per Household^{2,a} | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | |
| Space Heating | 43.9 | 58.5 | 22.6 | 25.9 | 5.0 | 6.8 |
| Electric Air-Conditioning | 7.7 | 2.4 | 3.3 | 14.8 | 16.6 | 6.5 |
| Water Heating | 15.8 | 18.1 | 16.2 | 15.9 | 9.6 | 3.5 |
| Refrigerators | 5.0 | 3.7 | 3.5 | 6.7 | 6.3 | 3.9 |
| Other Appliances and Lighting | 22.5 | 18.4 | 19.7 | 25.9 | 21.4 | 3.2 |

¹ The RECS cannot be used to accurately estimate the number of households that do not use electricity.
² The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.
³ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
⁴ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.
⁵ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
^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.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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.

Table CE1-8c. Total Energy Consumption in U.S. Households by Urban/Rural Location, 2001

| | Urban/Rural Location ¹ | | | | | RSE Row Factors |
|--|-----------------------------------|-------|-------|---------|-------|-----------------|
| | Total | City | Town | Suburbs | Rural | |
| | 0.5 | 0.9 | 1.4 | 1.3 | 1.2 | |
| Million Households | | | | | | |
| Total U.S. Households | 107.0 | 49.9 | 18.0 | 21.2 | 17.9 | 4.2 |
| Number of Households, Fuels Used (more than one may apply): | | | | | | |
| Electricity ² | 107.0 | 49.9 | 18.0 | 21.2 | 17.9 | 4.2 |
| Natural Gas | 66.9 | 37.4 | 11.2 | 14.4 | 3.9 | 5.5 |
| Fuel Oil | 8.7 | 2.6 | 2.1 | 1.4 | 2.6 | 13.3 |
| Kerosene | 2.9 | 0.5 | 0.6 | 0.4 | 1.4 | 20.1 |
| LPG | 9.4 | 0.9 | 1.6 | 0.8 | 6.1 | 14.9 |
| Wood | 14.5 | 3.9 | 2.4 | 3.2 | 5.1 | 9.4 |
| Quadrillion Btu | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 11.63 | 4.51 | 1.92 | 2.60 | 2.60 | 4.5 |
| Site | 3.89 | 1.51 | 0.64 | 0.87 | 0.87 | 4.5 |
| Natural Gas | 4.84 | 2.51 | 0.87 | 1.15 | 0.31 | 6.8 |
| Fuel Oil | 0.71 | 0.18 | 0.19 | 0.12 | 0.22 | 14.6 |
| Kerosene | 0.05 | (*) | 0.01 | Q | 0.03 | 29.5 |
| LPG | 0.38 | 0.02 | 0.07 | 0.03 | 0.26 | 20.2 |
| Wood | 0.37 | 0.05 | 0.06 | 0.04 | 0.23 | 15.1 |
| Total (excludes primary electricity and wood) | 9.86 | 4.22 | 1.77 | 2.18 | 1.69 | 4.1 |
| Physical Units | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | |
| Electricity (billion kWh) | 1,140 | 442 | 188 | 255 | 254 | 4.5 |
| Natural Gas (billion cf) | 4,708 | 2,438 | 848 | 1,121 | 302 | 6.8 |
| Fuel Oil (million gallons) | 5,105 | 1,277 | 1,352 | 878 | 1,598 | 14.6 |
| Kerosene (million gallons) | 348 | 29 | 56 | Q | 236 | 29.5 |
| LPG (million gallons) | 4,121 | 257 | 725 | 326 | 2,814 | 20.2 |
| Wood (million cords) | 18.7 | 2.3 | 2.9 | 2.0 | 11.5 | 15.1 |
| Million Btu per Household³ | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 108.7 | 90.5 | 106.3 | 122.7 | 145.4 | 2.4 |
| Site | 36.4 | 30.3 | 35.6 | 41.0 | 48.6 | 2.4 |
| Natural Gas | 72.4 | 67.1 | 77.6 | 80.2 | 79.0 | 3.2 |
| Fuel Oil | 81.7 | 68.3 | 88.5 | 88.1 | 86.2 | 5.4 |
| Kerosene | 16.1 | 7.3 | 13.7 | Q | 22.0 | 22.0 |
| LPG | 40.2 | 25.7 | 42.6 | 37.0 | 42.1 | 11.6 |
| Wood | 25.9 | 11.7 | 24.6 | 12.7 | 45.6 | 11.9 |
| Total (excludes primary electricity and wood) | 92.2 | 84.7 | 98.4 | 102.7 | 94.5 | 2.1 |

See footnotes at end of table.

Table CE1-8c. Total Energy Consumption in U.S. Households by Urban/Rural Location, 2001 (Continued)

| | Urban/Rural Location ¹ | | | | RSE Row Factors | |
|---|-----------------------------------|-------|--------|---------|-----------------|-------|
| | Total | City | Town | Suburbs | | Rural |
| RSE Column Factor: | 0.5 | 0.9 | 1.4 | 1.3 | 1.2 | |
| Physical Units per Household³ | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | |
| Electricity (kWh) | 10,656 | 8,869 | 10,425 | 12,028 | 14,251 | 2.4 |
| Natural Gas (thousand cf) | 70 | 65 | 75 | 78 | 77 | 3.2 |
| Fuel Oil (gallons) | 589 | 493 | 638 | 635 | 622 | 5.4 |
| Kerosene (gallons) | 119 | 54 | 102 | Q | 163 | 22.1 |
| LPG (gallons) | 440 | 281 | 467 | 406 | 461 | 11.6 |
| Wood (cords) | 1.3 | 0.6 | 1.2 | 0.6 | 2.3 | 11.9 |
| Million Households | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | |
| Space Heating ⁴ | 105.3 | 48.9 | 17.9 | 21.1 | 17.3 | 4.2 |
| Electric Air-Conditioning ⁵ | 80.8 | 35.6 | 13.4 | 18.6 | 13.3 | 4.3 |
| Water Heating ⁶ | 106.7 | 49.7 | 18.0 | 21.2 | 17.8 | 4.2 |
| Refrigerators | 106.8 | 49.7 | 18.0 | 21.2 | 17.8 | 4.2 |
| Appliances | 107.0 | 49.9 | 18.0 | 21.2 | 17.9 | 4.2 |
| Quadrillion Btu^a | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | |
| Space Heating | 4.62 | 1.99 | 0.90 | 0.97 | 0.76 | 5.1 |
| Electric Air-Conditioning | 0.62 | 0.26 | 0.09 | 0.17 | 0.11 | 5.9 |
| Water Heating | 1.68 | 0.77 | 0.29 | 0.37 | 0.25 | 3.9 |
| Refrigerators | 0.53 | 0.22 | 0.09 | 0.12 | 0.10 | 4.2 |
| Other Appliances and Lighting | 2.40 | 0.98 | 0.41 | 0.55 | 0.46 | 4.4 |
| Million Btu per Household^{3,a} | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | |
| Space Heating | 43.9 | 40.6 | 50.3 | 45.8 | 44.1 | 3.4 |
| Electric Air-Conditioning | 7.7 | 7.3 | 6.4 | 9.3 | 8.0 | 4.0 |
| Water Heating | 15.8 | 15.4 | 16.1 | 17.5 | 14.3 | 2.1 |
| Refrigerators | 5.0 | 4.5 | 5.0 | 5.5 | 5.8 | 2.1 |
| Other Appliances and Lighting | 22.5 | 19.7 | 22.6 | 25.9 | 25.9 | 2.4 |

¹ Based on the household respondent's description rather than the Federal Government definition.
² The RECS cannot be used to accurately estimate the number of households that do not use electricity.
³ The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.
⁴ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
⁵ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.
⁶ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
^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.

Table CE1-9c. Total Energy Consumption in U.S. Households by Northeast Census Region, 2001

| | Northeast Census Region | | | | RSE Row Factors |
|--|-------------------------|-----------------|-----------------|-------------|-----------------------|
| | Total U.S. | Census Division | | | |
| | | Total | Middle Atlantic | New England | |
| | | | 0.5 | 1.0 | |
| RSE Column Factor: | | | | | |
| Million Households | | | | | |
| Total U.S. Households | 107.0 | 20.3 | 14.8 | 5.4 | NE |
| Number of Households, Fuels Used (more than one may apply): | | | | | |
| Electricity ¹ | 107.0 | 20.3 | 14.8 | 5.4 | NE |
| Natural Gas | 66.9 | 12.5 | 10.3 | 2.3 | 7.5 |
| Fuel Oil | 8.7 | 6.6 | 3.9 | 2.7 | 12.4 |
| Kerosene | 2.9 | 0.7 | 0.4 | Q | 23.8 |
| LPG | 9.4 | 1.7 | 1.0 | 0.7 | 16.7 |
| Wood | 14.5 | 2.3 | 1.3 | 0.9 | 13.1 |
| Quadrillion Btu | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | |
| Electricity | | | | | |
| Primary | 11.63 | 1.58 | 1.18 | 0.39 | 3.8 |
| Site | 3.89 | 0.53 | 0.40 | 0.13 | 3.8 |
| Natural Gas | 4.84 | 0.98 | 0.79 | 0.19 | 10.0 |
| Fuel Oil | 0.71 | 0.58 | 0.30 | 0.27 | 14.3 |
| Kerosene | 0.05 | 0.02 | 0.01 | Q | 32.2 |
| LPG | 0.38 | 0.05 | 0.03 | 0.02 | 22.1 |
| Wood | 0.37 | 0.10 | 0.08 | 0.03 | 17.0 |
| Total (excludes primary electricity and wood) | 9.86 | 2.16 | 1.54 | 0.62 | 2.4 |
| Physical Units | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | |
| Electricity (billion kWh) | 1,140 | 154 | 116 | 39 | 3.8 |
| Natural Gas (billion cf) | 4,708 | 954 | 772 | 181 | 10.0 |
| Fuel Oil (million gallons) | 5,105 | 4,166 | 2,196 | 1,969 | 14.3 |
| Kerosene (million gallons) | 348 | 155 | 101 | Q | 32.2 |
| LPG (million gallons) | 4,121 | 563 | 296 | 267 | 22.1 |
| Wood (million cords) | 18.7 | 5.1 | 3.8 | 1.3 | 17.0 |
| Million Btu per Household² | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | |
| Electricity | | | | | |
| Primary | 108.7 | 77.8 | 79.6 | 72.9 | 3.8 |
| Site | 36.4 | 26.0 | 26.6 | 24.4 | 3.8 |
| Natural Gas | 72.4 | 78.3 | 77.4 | 82.5 | 4.7 |
| Fuel Oil | 81.7 | 87.3 | 78.8 | 99.3 | 4.2 |
| Kerosene | 16.1 | 30.2 | 33.2 | 25.8 | 19.2 |
| LPG | 40.2 | 29.8 | 27.4 | 33.1 | 17.8 |
| Wood | 25.9 | 44.9 | 56.7 | 27.9 | 10.8 |
| Total (excludes primary electricity and wood) | 92.2 | 106.6 | 103.4 | 115.3 | 2.4 |

See footnotes at end of table.

Table CE1-9c. Total Energy Consumption in U.S. Households by Northeast Census Region, 2001 (Continued)

| | Northeast Census Region | | | | RSE Row Factors |
|---|-------------------------|-----------------|-----------------|-------------|-----------------|
| | Total U.S. | Census Division | | | |
| | | Total | Middle Atlantic | New England | |
| RSE Column Factor: | 0.5 | 1.0 | 1.2 | 1.6 | |
| Physical Units per Household² | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | |
| Electricity (kWh) | 10,656 | 7,624 | 7,799 | 7,142 | 3.8 |
| Natural Gas (thousand cf) | 70 | 76 | 75 | 80 | 4.7 |
| Fuel Oil (gallons) | 589 | 630 | 568 | 716 | 4.2 |
| Kerosene (gallons) | 119 | 224 | 246 | 191 | 19.2 |
| LPG (gallons) | 440 | 327 | 300 | 362 | 17.8 |
| Wood (cords) | 1.3 | 2.2 | 2.8 | 1.4 | 10.8 |
| Million Households | | | | | |
| Number of Households, Where the End Use Is: | | | | | |
| Space Heating ³ | 105.3 | 19.9 | 14.6 | 5.3 | NE |
| Electric Air-Conditioning ⁴ | 80.8 | 14.2 | 11.1 | 3.2 | 3.4 |
| Water Heating ⁵ | 106.7 | 20.2 | 14.8 | 5.4 | NE |
| Refrigerators | 106.8 | 20.2 | 14.8 | 5.4 | NE |
| Appliances | 107.0 | 20.3 | 14.8 | 5.4 | NE |
| Quadrillion Btu^a | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | |
| Space Heating | 4.62 | 1.26 | 0.88 | 0.38 | 3.1 |
| Electric Air-Conditioning | 0.62 | 0.05 | 0.04 | 0.01 | 8.1 |
| Water Heating | 1.68 | 0.36 | 0.26 | 0.11 | 2.6 |
| Refrigerators | 0.53 | 0.08 | 0.06 | 0.02 | 2.6 |
| Other Appliances and Lighting | 2.40 | 0.41 | 0.30 | 0.11 | 3.8 |
| Million Btu per Household^{2,a} | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | |
| Space Heating | 43.9 | 63.1 | 60.1 | 71.4 | 3.0 |
| Electric Air-Conditioning | 7.7 | 3.3 | 3.4 | 2.7 | 6.7 |
| Water Heating | 15.8 | 18.0 | 17.4 | 19.6 | 2.6 |
| Refrigerators | 5.0 | 4.2 | 4.3 | 3.9 | 2.5 |
| Other Appliances and Lighting | 22.5 | 20.1 | 20.3 | 19.6 | 3.8 |

¹ The RECS cannot be used to accurately estimate the number of households that do not use electricity.
² The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.
³ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
⁴ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.
⁵ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
^a The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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.

Table CE1-10c. Total Energy Consumption in U.S. Households by Midwest Census Region, 2001

| | Midwest Census Region | | | | RSE Row Factors |
|--|-----------------------|-----------------|--------------------|--------------------|-----------------------|
| | Total U.S. | Census Division | | | |
| | | Total | East North Central | West North Central | |
| | | | 0.5 | 1.0 | |
| RSE Column Factor: | 0.5 | 1.0 | 1.2 | 1.5 | |
| Million Households | | | | | |
| Total U.S. Households | 107.0 | 24.5 | 17.1 | 7.4 | NE |
| Number of Households, Fuels Used (more than one may apply): | | | | | |
| Electricity ¹ | 107.0 | 24.5 | 17.1 | 7.4 | NE |
| Natural Gas | 66.9 | 19.4 | 14.2 | 5.2 | 3.9 |
| Fuel Oil | 8.7 | 0.9 | 0.5 | 0.4 | 15.2 |
| Kerosene | 2.9 | 0.5 | 0.4 | Q | 14.6 |
| LPG | 9.4 | 2.3 | 1.1 | 1.2 | 22.0 |
| Wood | 14.5 | 2.5 | 1.4 | 1.1 | 13.1 |
| Quadrillion Btu | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | |
| Electricity | | | | | |
| Primary | 11.63 | 2.43 | 1.60 | 0.83 | 2.5 |
| Site | 3.89 | 0.81 | 0.54 | 0.28 | 2.5 |
| Natural Gas | 4.84 | 1.84 | 1.39 | 0.44 | 5.0 |
| Fuel Oil | 0.71 | 0.06 | 0.03 | 0.03 | 18.8 |
| Kerosene | 0.05 | (*) | Q | Q | 35.4 |
| LPG | 0.38 | 0.15 | 0.07 | 0.08 | 23.3 |
| Wood | 0.37 | 0.09 | 0.06 | 0.03 | 27.7 |
| Total (excludes primary electricity and wood) | 9.86 | 2.86 | 2.03 | 0.83 | 2.2 |
| Physical Units | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | |
| Electricity (billion kWh) | 1,140 | 238 | 157 | 81 | 2.5 |
| Natural Gas (billion cf) | 4,708 | 1,784 | 1,352 | 432 | 5.0 |
| Fuel Oil (million gallons) | 5,105 | 437 | 234 | 203 | 18.9 |
| Kerosene (million gallons) | 348 | 23 | Q | Q | 35.4 |
| LPG (million gallons) | 4,121 | 1,607 | 767 | 840 | 23.3 |
| Wood (million cords) | 18.7 | 4.6 | 3.0 | 1.6 | 27.7 |
| Million Btu per Household² | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | |
| Electricity | | | | | |
| Primary | 108.7 | 99.2 | 93.9 | 111.5 | 2.5 |
| Site | 36.4 | 33.2 | 31.4 | 37.3 | 2.5 |
| Natural Gas | 72.4 | 94.7 | 98.2 | 85.0 | 2.8 |
| Fuel Oil | 81.7 | 68.4 | 63.3 | 75.4 | 11.0 |
| Kerosene | 16.1 | 6.5 | Q | Q | 30.0 |
| LPG | 40.2 | 63.7 | 63.4 | 63.9 | 7.2 |
| Wood | 25.9 | 36.7 | 42.3 | 29.3 | 18.4 |
| Total (excludes primary electricity and wood) | 92.2 | 116.7 | 118.9 | 111.6 | 2.2 |

See footnotes at end of table.

Table CE1-10c. Total Energy Consumption in U.S. Households by Midwest Census Region, 2001 (Continued)

| | Midwest Census Region | | | | RSE Row Factors |
|---|-----------------------|-----------------|--------------------|--------------------|-----------------|
| | Total U.S. | Census Division | | | |
| | | Total | East North Central | West North Central | |
| | | | 0.5 | 1.0 | |
| RSE Column Factor: | | | | | |
| Physical Units per Household² | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | |
| Electricity (kWh) | 10,656 | 9,727 | 9,206 | 10,930 | 2.5 |
| Natural Gas (thousand cf) | 70 | 92 | 95 | 83 | 2.8 |
| Fuel Oil (gallons) | 589 | 494 | 456 | 546 | 11.0 |
| Kerosene (gallons) | 119 | 48 | Q | Q | 30.0 |
| LPG (gallons) | 440 | 697 | 694 | 700 | 7.2 |
| Wood (cords) | 1.3 | 1.8 | 2.1 | 1.5 | 18.4 |
| Million Households | | | | | |
| Number of Households, Where the End Use Is: | | | | | |
| Space Heating ³ | 105.3 | 24.4 | 17.0 | 7.3 | NE |
| Electric Air-Conditioning ⁴ | 80.8 | 20.2 | 13.4 | 6.7 | 2.3 |
| Water Heating ⁵ | 106.7 | 24.5 | 17.1 | 7.4 | NE |
| Refrigerators | 106.8 | 24.5 | 17.1 | 7.4 | NE |
| Appliances | 107.0 | 24.5 | 17.1 | 7.4 | NE |
| Quadrillion Btu^a | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | |
| Space Heating | 4.62 | 1.63 | 1.18 | 0.45 | 3.1 |
| Electric Air-Conditioning | 0.62 | 0.10 | 0.06 | 0.04 | 5.2 |
| Water Heating | 1.68 | 0.43 | 0.30 | 0.12 | 2.6 |
| Refrigerators | 0.53 | 0.12 | 0.08 | 0.04 | 2.1 |
| Other Appliances and Lighting | 2.40 | 0.58 | 0.41 | 0.17 | 2.1 |
| Million Btu per Household^{2,a} | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | |
| Space Heating | 43.9 | 66.8 | 69.3 | 61.2 | 3.0 |
| Electric Air-Conditioning | 7.7 | 5.1 | 4.6 | 6.0 | 4.3 |
| Water Heating | 15.8 | 17.4 | 17.7 | 16.8 | 2.6 |
| Refrigerators | 5.0 | 4.9 | 4.8 | 5.2 | 2.1 |
| Other Appliances and Lighting | 22.5 | 23.7 | 23.9 | 23.4 | 2.1 |

¹ The RECS cannot be used to accurately estimate the number of households that do not use electricity.
² The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.
³ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
⁴ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.
⁵ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
^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.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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.

**Table CE1-11c. Total Energy Consumption in U.S. Households
by South Census Region, 2001**

| | South Census Region | | | | | RSE Row Factors |
|--|---------------------|-----------------|----------------|--------------------|--------------------|-----------------------|
| | Total U.S. | Census Division | | | West south Central | |
| | | Total | South Atlantic | East South Central | | |
| RSE Column Factor: | 0.5 | 0.8 | 1.2 | 1.5 | 1.5 | |
| Million Households | | | | | | |
| Total U.S. Households | 107.0 | 38.9 | 20.3 | 6.8 | 11.8 | NE |
| Number of Households, Fuels Used (more than one may apply): | | | | | | |
| Electricity ¹ | 107.0 | 38.9 | 20.3 | 6.8 | 11.8 | NE |
| Natural Gas | 66.9 | 18.7 | 8.0 | 2.9 | 7.8 | 7.0 |
| Fuel Oil | 8.7 | 0.9 | 0.9 | Q | Q | 30.5 |
| Kerosene | 2.9 | 1.4 | 1.0 | 0.3 | Q | 19.3 |
| LPG | 9.4 | 3.8 | 2.1 | 1.3 | 0.5 | 16.6 |
| Wood | 14.5 | 5.2 | 2.8 | 0.9 | 1.5 | 11.2 |
| Quadrillion Btu | | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 11.63 | 5.65 | 2.85 | 1.07 | 1.73 | 3.1 |
| Site | 3.89 | 1.89 | 0.95 | 0.36 | 0.58 | 3.1 |
| Natural Gas | 4.84 | 1.13 | 0.49 | 0.18 | 0.46 | 9.1 |
| Fuel Oil | 0.71 | 0.06 | 0.06 | Q | Q | 33.1 |
| Kerosene | 0.05 | 0.02 | 0.01 | (*) | Q | 33.0 |
| LPG | 0.38 | 0.12 | 0.06 | 0.04 | 0.02 | 23.6 |
| Wood | 0.37 | 0.09 | 0.05 | 0.02 | 0.02 | 20.7 |
| Total (excludes primary electricity and wood) | 9.86 | 3.21 | 1.57 | 0.59 | 1.06 | 3.1 |
| Physical Units | | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | | |
| Electricity (billion kWh) | 1,140 | 554 | 279 | 105 | 170 | 3.1 |
| Natural Gas (billion cf) | 4,708 | 1,096 | 476 | 175 | 445 | 9.1 |
| Fuel Oil (million gallons) | 5,105 | 419 | 398 | Q | Q | 33.1 |
| Kerosene (million gallons) | 348 | 126 | 89 | 37 | Q | 33.0 |
| LPG (million gallons) | 4,121 | 1,301 | 656 | 432 | 213 | 23.6 |
| Wood (million cords) | 18.7 | 4.3 | 2.3 | 1.0 | 1.0 | 20.7 |
| Million Btu per Household² | | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | | |
| Electricity | | | | | | |
| Primary | 108.7 | 145.3 | 140.4 | 157.6 | 146.5 | 3.1 |
| Site | 36.4 | 48.6 | 47.0 | 52.7 | 49.0 | 3.1 |
| Natural Gas | 72.4 | 60.4 | 61.2 | 61.6 | 59.1 | 4.7 |
| Fuel Oil | 81.7 | 61.6 | 64.2 | Q | Q | 13.6 |
| Kerosene | 16.1 | 12.2 | 12.4 | 14.6 | Q | 24.6 |
| LPG | 40.2 | 30.9 | 29.1 | 30.0 | 41.1 | 13.2 |
| Wood | 25.9 | 16.7 | 16.6 | 22.8 | 13.3 | 14.4 |
| Total (excludes primary electricity and wood) | 92.2 | 82.5 | 77.3 | 86.0 | 89.5 | 3.1 |

See footnotes at end of table.

Table CE1-11c. Total Energy Consumption in U.S. Households by South Census Region, 2001 (Continued)

| | South Census Region | | | | | RSE Row Factors |
|---|---------------------|-----------------|----------------|--------------------|--------------------|-----------------|
| | Total U.S. | Census Division | | | West south Central | |
| | | Total | South Atlantic | East South Central | | |
| RSE Column Factor: | 0.5 | 0.8 | 1.2 | 1.5 | 1.5 | |
| Physical Units per Household² | | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | | |
| Electricity (kWh) | 10,656 | 14,240 | 13,763 | 15,447 | 14,363 | 3.1 |
| Natural Gas (thousand cf) | 70 | 59 | 59 | 60 | 57 | 4.7 |
| Fuel Oil (gallons) | 589 | 445 | 463 | Q | Q | 13.6 |
| Kerosene (gallons) | 119 | 90 | 92 | 108 | Q | 24.6 |
| LPG (gallons) | 440 | 338 | 319 | 328 | 451 | 13.2 |
| Wood (cords) | 1.3 | 0.8 | 0.8 | 1.1 | 0.7 | 14.4 |
| Million Households | | | | | | |
| Number of Households, Where the End Use Is: | | | | | | |
| Space Heating ³ | 105.3 | 38.7 | 20.0 | 6.8 | 11.8 | NE |
| Electric Air-Conditioning ⁴ | 80.8 | 36.9 | 19.0 | 6.4 | 11.5 | 1.6 |
| Water Heating ⁵ | 106.7 | 38.9 | 20.3 | 6.8 | 11.8 | NE |
| Refrigerators | 106.8 | 38.9 | 20.3 | 6.8 | 11.8 | NE |
| Appliances | 107.0 | 38.9 | 20.3 | 6.8 | 11.8 | NE |
| Quadrillion Btu^a | | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | | |
| Space Heating | 4.62 | 1.07 | 0.52 | 0.22 | 0.33 | 6.6 |
| Electric Air-Conditioning | 0.62 | 0.42 | 0.20 | 0.06 | 0.16 | 4.2 |
| Water Heating | 1.68 | 0.54 | 0.26 | 0.09 | 0.19 | 3.2 |
| Refrigerators | 0.53 | 0.23 | 0.11 | 0.04 | 0.08 | 2.9 |
| Other Appliances and Lighting | 2.40 | 0.94 | 0.47 | 0.17 | 0.30 | 2.2 |
| Million Btu per Household^{2,a} | | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | | |
| Space Heating | 43.9 | 27.7 | 25.9 | 32.5 | 27.9 | 6.6 |
| Electric Air-Conditioning | 7.7 | 11.5 | 10.7 | 9.9 | 13.7 | 3.5 |
| Water Heating | 15.8 | 13.9 | 12.8 | 13.3 | 16.3 | 3.2 |
| Refrigerators | 5.0 | 6.0 | 5.6 | 6.0 | 6.6 | 2.9 |
| Other Appliances and Lighting | 22.5 | 24.3 | 23.2 | 25.1 | 25.5 | 2.2 |

¹ The RECS cannot be used to accurately estimate the number of households that do not use electricity.

² The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

³ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁴ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

⁵ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

^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.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

**Table CE1-12c. Total Energy Consumption in U.S. Households
by West Census Region, 2001**

| | West Census Region | | | | RSE Row Factors |
|--|--------------------|-----------------|----------|---------|-----------------------|
| | Total U.S. | Census Division | | | |
| | | Total | Mountain | Pacific | |
| | | | 0.5 | 1.1 | |
| RSE Column Factor: | | | | | |
| Million Households | | | | | |
| Total U.S. Households | 107.0 | 23.3 | 6.7 | 16.6 | NE |
| Number of Households, Fuels Used (more than one may apply): | | | | | |
| Electricity ¹ | 107.0 | 23.3 | 6.7 | 16.6 | NE |
| Natural Gas | 66.9 | 16.3 | 4.7 | 11.6 | 2.6 |
| Fuel Oil | 8.7 | 0.2 | Q | 0.2 | 24.0 |
| Kerosene | 2.9 | 0.4 | Q | 0.3 | 17.6 |
| LPG | 9.4 | 1.5 | 0.5 | 1.0 | 17.4 |
| Wood | 14.5 | 4.6 | 1.0 | 3.5 | 10.4 |
| Quadrillion Btu | | | | | |
| Total Btu Consumption, Fuels Used: | | | | | |
| Electricity | | | | | |
| Primary | 11.63 | 1.97 | 0.68 | 1.29 | 3.1 |
| Site | 3.89 | 0.66 | 0.23 | 0.43 | 3.1 |
| Natural Gas | 4.84 | 0.90 | 0.33 | 0.57 | 4.6 |
| Fuel Oil | 0.71 | 0.01 | Q | 0.01 | 31.5 |
| Kerosene | 0.05 | 0.01 | Q | 0.01 | 36.0 |
| LPG | 0.38 | 0.06 | 0.03 | 0.03 | 23.4 |
| Wood | 0.37 | 0.10 | 0.02 | 0.08 | 17.8 |
| Total (excludes primary electricity and wood) | 9.86 | 1.63 | 0.59 | 1.05 | 3.0 |
| Physical Units | | | | | |
| Physical Units of Total Consumption, Fuels Used: | | | | | |
| Electricity (billion kWh) | 1,140 | 193 | 67 | 126 | 3.1 |
| Natural Gas (billion cf) | 4,708 | 873 | 317 | 556 | 4.6 |
| Fuel Oil (million gallons) | 5,105 | 84 | Q | 72 | 31.5 |
| Kerosene (million gallons) | 348 | 45 | Q | 44 | 36.0 |
| LPG (million gallons) | 4,121 | 650 | 339 | 312 | 23.4 |
| Wood (million cords) | 18.7 | 4.8 | 1.0 | 3.8 | 17.8 |
| Million Btu per Household² | | | | | |
| Total Btu Consumption per Household, Fuels Used: | | | | | |
| Electricity | | | | | |
| Primary | 108.7 | 84.5 | 101.3 | 77.8 | 3.1 |
| Site | 36.4 | 28.3 | 33.9 | 26.0 | 3.1 |
| Natural Gas | 72.4 | 55.0 | 68.8 | 49.4 | 3.5 |
| Fuel Oil | 81.7 | 52.8 | Q | 50.8 | 14.3 |
| Kerosene | 16.1 | 16.7 | Q | 17.7 | 29.5 |
| LPG | 40.2 | 39.8 | 57.9 | 29.7 | 11.3 |
| Wood | 25.9 | 20.9 | 19.1 | 21.5 | 14.1 |
| Total (excludes primary electricity and wood) | 92.2 | 70.1 | 87.2 | 63.2 | 3.0 |

See footnotes at end of table.

Table CE1-12c. Total Energy Consumption in U.S. Households by West Census Region, 2001 (Continued)

| | West Census Region | | | | RSE Row Factors |
|---|--------------------|-----------------|----------|---------|-----------------|
| | Total U.S. | Census Division | | | |
| | | Total | Mountain | Pacific | |
| RSE Column Factor: | 0.5 | 1.1 | 1.5 | 1.3 | |
| Physical Units per Household² | | | | | |
| Physical Units of Total Consumption per Household, Fuels Used: | | | | | |
| Electricity (kWh) | 10,656 | 8,287 | 9,926 | 7,622 | 3.1 |
| Natural Gas (thousand cf) | 70 | 53 | 67 | 48 | 3.5 |
| Fuel Oil (gallons) | 589 | 381 | Q | 367 | 14.3 |
| Kerosene (gallons) | 119 | 124 | Q | 131 | 29.5 |
| LPG (gallons) | 440 | 436 | 634 | 326 | 11.3 |
| Wood (cords) | 1.3 | 1.0 | 1.0 | 1.1 | 14.1 |
| Million Households | | | | | |
| Number of Households, Where the End Use Is: | | | | | |
| Space Heating ³ | 105.3 | 22.4 | 6.7 | 15.7 | NE |
| Electric Air-Conditioning ⁴ | 80.8 | 9.6 | 3.2 | 6.3 | 7.2 |
| Water Heating ⁵ | 106.7 | 23.2 | 6.7 | 16.5 | NE |
| Refrigerators | 106.8 | 23.2 | 6.7 | 16.5 | NE |
| Appliances | 107.0 | 23.3 | 6.7 | 16.6 | NE |
| Quadrillion Btu^a | | | | | |
| Total Btu Consumption, Where the End Use Is: | | | | | |
| Space Heating | 4.62 | 0.67 | 0.27 | 0.39 | 4.6 |
| Electric Air-Conditioning | 0.62 | 0.05 | 0.03 | 0.02 | 8.5 |
| Water Heating | 1.68 | 0.35 | 0.11 | 0.24 | 2.5 |
| Refrigerators | 0.53 | 0.10 | 0.03 | 0.06 | 2.7 |
| Other Appliances and Lighting | 2.40 | 0.47 | 0.14 | 0.33 | 3.0 |
| Million Btu per Household^{2,a} | | | | | |
| Total Btu Consumption per Household, Where the End Use Is: | | | | | |
| Space Heating | 43.9 | 29.7 | 41.0 | 24.9 | 4.6 |
| Electric Air-Conditioning | 7.7 | 5.4 | 9.7 | 3.2 | 6.5 |
| Water Heating | 15.8 | 15.1 | 15.7 | 14.9 | 2.5 |
| Refrigerators | 5.0 | 4.1 | 5.0 | 3.8 | 2.7 |
| Other Appliances and Lighting | 22.5 | 20.2 | 21.2 | 19.8 | 3.0 |

¹ The RECS cannot be used to accurately estimate the number of households that do not use electricity.
² The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.
³ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
⁴ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.
⁵ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.
^a The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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.