Residential Energy Consumption Surveys

1997 Consumption and Expenditures Tables

Electric Air-Conditioning Consumption Tables

(23 pages, 66 kb)

| Contents | Pages |
|---|-------|
| CE3-1c. Electric Air-Conditioning Energy Consumption in U.S. Households by Climate Zone, 1997 | 2 |
| CE3-2c. Electric Air-Conditioning Energy Consumption in U.S. Households by Year of Construction, 1997 | 2 |
| CE3-3c. Electric Air-Conditioning Energy Consumption in U.S. Households by Household Income, 1997 | 2 |
| CE3-4c. Electric Air-Conditioning Energy Consumption in U.S. Households by Type of Housing Unit, 1997 CE3-5u. Electric Air-Conditioning Energy Consumption and Expenditures in U.S. Households by Household | 2 |
| Demographics, 1997 | 2 |
| CE3-6u. Electric Air-Conditioning Energy Consumption and Expenditures in U.S. Households by Usage Indicators, 1997 | 2 |
| CE3-7c. Electric Air-Conditioning Energy Consumption in U.S. Households by Four Most Populated States, 1997 | 2 |
| CE3-8c. Electric Air-Conditioning Energy Consumption in U.S. Households by Urban/Rural Location, 1997 | 2 |
| CE3-9c. Electric Air-Conditioning Energy Consumption in U.S. Households by Northeast Census Region, 1997 | 2 |
| CE3-10c. Electric Air-Conditioning Energy Consumption in U.S. Households by Midwest Census Region, 1997 | 2 |
| CE3-11c. Electric Air-Conditioning Energy Consumption in U.S. Households by South Census Region, 1997 | 2 |
| CE3-12c. Electric Air-Conditioning Energy Consumption in U.S. Households by West Census Region, 1997 | 2 |

These data are from the 1997 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 data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 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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Contact: Robert Latta, Survey Manager (rlatta @eia.doe.gov)

World Wide Web: http://www.eia.doe.gov/emeu/consumption

Table CE3-1c. Electric Air-Conditioning Energy Consumption in U.S. Households by Climate Zone, 1997

| by Cilli | iale Zui | ie, 1997 | | | | | | |
|---|--|---------------------------------|------------------------------------|---------------------------------------|---|---|-----------------------------------|--|
| | | | | Climate Zone ¹ | | | | |
| | | | Fewer than 2,0 | 000 CDD and | | 2,000 CDD | | |
| | Total | More than 7,000 HDD | 5,500 to 7,000 HDD | 4,000 to 5,499 HDD | Fewer than 4,000 HDD | or More and Fewer than 4,000 HDD | B05 | |
| RSE Column Factor: | 0.5 | 1.9 | 1.1 | 0.9 | 1.2 | 0.9 | RSE Row Factors | |
| | | | M | illion Households |) | | | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning ² Central Air-Conditioning ³ Room/Wall Air-Conditioning | 72.6 47.5 | 9.3 4.1 5.2 2.9 2.3 | 28.0 9.8 18.2 10.5 7.7 | 22.5 4.9 17.6 10.3 7.3 | 19.5 7.5 12.0 8.4 3.6 | 22.2 2.6 19.6 15.3 4.3 | 8.2 9.8 8.4 10.0 11.2 | |
| | | | | Quadrillion Btu | | | | |
| Electric Air-Conditioning Btu Consumption Total | 0.42 | 0.01 | 0.05 | 0.07 | 0.07 | 0.22 | 11.0 | |
| Central Air-ConditioningRoom/Wall Air-Conditioning | | 0.01 (*) | 0.04 0.01 | 0.06 0.02 | 0.06 0.01 | 0.19 0.03 | 11.8 13.7 | |
| | | | | Billion kWh | | | | |
| Electric Air-Conditioning kWh Consumption | | | | | | | | |
| Total Central Air-Conditioning | 101 | 3 3 | 14 11 | 21 16 | 20 17 | 63 54 | 11.0 11.8 13.7 | |
| Room/Wall Air-Conditioning | 21 1 3 5 4 9 Million Btu per Household ⁴ | | | | | | | |
| | | | | · | | | | |
| Electric Air-Conditioning Btu Consumption per Household Electric Air-Conditioning Central Air-Conditioning | 7.2 | 2.2 3.0 | 2.6 3.5 | 4.1 5.4 | 5.8 6.8 | 11.0 12.1 | 5.0 4.7 | |
| Room/Wall Air-Conditioning | 2.9 | 1.2 | 1.4 kV | 2.2 /h per Household | 3.4 | 7.0 | 6.0 | |
| | | | | po | <u>'</u> | | | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning Central Air-Conditioning | | 644 885 343 | 766 1,022 416 | 1,195 1,580 648 | 1,694 1,998 986 | 3,224 3,547 2,064 | 5.0 4.7 6.0 | |
| | | | 1997 Cooling De | gree-Days (CDD) | per Household ⁴ | | | |
| 1997 Cooling Degree-Days per Household | | | | | | | | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,274 868 1,435 1,576 1,169 | 464 418 500 518 477 | 590 487 645 658 628 | 988 769 1,048 1,081 1,001 | 1,310 1,054 1,470 1,503 1,393 | 2,735 2,647 2,746 2,782 2,619 | 4.1 7.1 3.5 4.0 3.9 | |

Table CE3-1c. Electric Air-Conditioning Energy Consumption in U.S. Households by Climate Zone, 1997 (Continued)

| | | Climate Zone ¹ | | | | | | |
|--|----------------------|---------------------------|-----------------------|-------------------------|-------------------------------------|---|-------------------|--|
| | | | | 2,000 CDD | | | | |
| | Total | More than 7,000 HDD | 5,500 to 7,000 HDD | 4,000 to 5,499 HDD | Fewer than 4,000 HDD | or More and Fewer than 4,000 HDD | RSE | |
| RSE Column Factor: | 0.5 | 1.9 | 1.1 | 0.9 | 1.2 | 0.9 | Row Factors | |
| - | | | Cooled Square | Footage (CSF) po | er Household ⁴ | | | |
| Cooled Square Footage per Household ⁵ Electric Air-Conditioning Central Air-Conditioning | 1,464 1,823 | 1,705 2,314 | 1,525 2,091 | 1,455 1,891 | 1,389 1,690 | 1,396 1,574 | 3.4 3.1 | |
| Room/Wall Air-Conditioning | 786 | 944 A | 751 | 837 tensity [kWh÷{CI | 690 DD×(CSF÷1000)}] ⁴ | 757 | 4.9 | |
| Air-Conditioning Intensity Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 0.80 0.74 0.91 | 0.76 0.74 0.76 | 0.78 0.74 0.88 | 0.78 0.77 0.77 | 0.83 0.79 1.03 | 0.84 0.81 1.04 | 2.9 3.1 4.5 | |

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 number of bounded where the code was instantiated.

⁴ Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

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

² 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.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

⁵ In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage.

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.

Table CE3-2c. Electric Air-Conditioning Energy Consumption in U.S. Households by Year of Construction, 1997

| | | | | Year of Co | nstruction | | | | |
|---|---|---|---|---|---|---|---------------------------------------|---------------------------------|-----------------------|
| | Total | 1990 to 1997 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | | |
| RSE Column Factor: | 0.5 | 0.5 | 1.9 | 1.2 | 1.0 | 0.9 | 1.1 | 0.9 | RSE Row Factors |
| _ | | | | Million Hous | seholds | | | 1 | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning ² Central Air-Conditioning ³ Room/Wall Air-Conditioning | 101.5 28.8 72.6 47.5 25.2 | 9.7 1.4 8.3 7.5 0.8 | 17.3 2.7 14.6 12.9 1.8 | 19.6 4.9 14.7 10.8 3.9 | 14.4 4.4 10.0 6.5 3.5 | 12.5 3.6 8.9 4.6 4.3 | 27.9 11.8 16.1 5.2 10.9 | 4.2 7.9 4.7 6.2 8.6 | |
| - | | | | Quadrillio | n Btu | | | | |
| Electric Air-Conditioning Btu Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | 0.42 0.34 0.07 | 0.06 0.06 (*) | 0.11 0.10 0.01 | 0.10 0.08 0.01 | 0.05 0.04 0.01 | 0.04 0.03 0.01 | 0.05 0.03 0.03 | 7.1 8.3 11.6 | |
| _ | | | | Billion k | w h | | | | |
| Electric Air-Conditioning kWh Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | 122 101 21 | 18 18 1 | 32 30 2 | 28 24 4 | 16 13 3 | 12 8 4 | 16 8 8 | 7.1 8.3 11.6 | |
| _ | | | Mi | llion Btu per l | Household ⁴ | | | | |
| Electric Air-Conditioning Btu Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 5.7 7.2 2.9 | 7.4 8.0 2.7 | 7.4 8.0 3.1 | 6.5 7.7 3.3 | 5.4 6.7 3.1 | 4.8 6.1 3.3 | 3.3 5.2 2.4 | 5.3 5.6 9.0 | |
| - | | | | kWh per Hou | usehold ⁴ | | | | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,677 2,123 837 | 2,181 2,330 782 | 2,160 2,332 901 | 1,911 2,257 955 | 1,592 1,953 911 | 1,393 1,788 970 | 975 1,529 713 | 5.3 5.6 9.0 | |
| - | | 1 | 997 Cooling | Degree-Days | (CDD) per H | ousehold ⁴ | | | |
| 1997 Cooling Degree-Days per Household Total U.S. Households | 1,274 868 1,435 1,576 1,169 | 1,342 736 1,443 1,478 1,112 | 1,557 746 1,704 1,788 1,094 | 1,411 877 1,589 1,689 1,312 | 1,312 1,017 1,443 1,558 1,225 | 1,257 943 1,385 1,399 1,370 | 967 828 1,068 1,135 1,037 | 3.9 7.7 4.1 4.9 5.9 | |

Table CE3-2c. Electric Air-Conditioning Energy Consumption in U.S. Households by Year of Construction, 1997 (Continued)

| | | Year of Construction | | | | | | | |
|--|--|---------------------------------|--------------------|--------------------|--------------------|-------------------------|----------------------|-----------------------|--|
| | Total | 1990 to 1997 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | D05 | |
| RSE Column Factor: | 0.5 | 1.9 | 1.2 | 1.0 | 0.9 | 1.1 | 0.9 | RSE Row Factors | |
| | Cooled Square Footage (CSF) per Household ⁴ | | | | | | | | |
| _ | | | | | | | | | |
| Cooled Square Footage per Household ⁵ | | | | | | | | | |
| Electric Air-Conditioning | 1,464 | 2,001 | 1,643 | 1,436 | 1,412 | 1,321 | 1,158 | 3.0 | |
| Central Air-Conditioning Room/Wall Air-Conditioning | 1,823 786 | 2,134 760 | 1,770 717 | 1,708 688 | 1,730 811 | 1,786 825 | 1,895 810 | 2.8 5.6 | |
| - | | Air | -Conditioning | g Intensity [k\ | Wh÷{CDD×(C | SF÷1000)}] ⁴ | | | |
| - | | | | | - , | | | | |
| Air-Conditioning Intensity | | | | | | | | | |
| Electric Air-Conditioning | 0.80 | 0.76 | 0.77 | 0.84 | 0.78 | 0.76 | 0.79 | 3.1 | |
| Central Air-Conditioning | 0.74 | 0.74 | 0.74 | 0.78 | 0.72 | 0.72 | 0.71 | 3.3 | |
| Room/Wall Air-Conditioning | 0.91 | 0.93 | 1.15 | 1.06 | 0.92 | 0.86 | 0.85 | 6.3 | |

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

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

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the

Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
 In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage. (*) = Value rounds to zero in the units displayed.

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.

Table CE3-3c. Electric Air-Conditioning Energy Consumption in U.S. Households by Household Income, 1997

| | | | 1997 House | hold Income | Т | | Eli- gible for | |
|---|--|--------------------------|----------------------------|----------------------------|------------------------|----------------------------|--|-----------------------|
| | Total | Less than \$10,000 | \$10,000 to \$24,999 | \$25,000 to \$49,999 | \$50,000 or More | Below Poverty Line | Fed- eral Assist- ance ¹ | |
| RSE Column Factor: | 0.6 | 1.7 | 1.0 | 0.8 | 0.9 | 1.4 | | RSE Row Factors |
| - | | | | Million H | ouseholds | | | |
| Total U.S. Households | 101.5 | 13.3 | 29.1 | 31.1 | 27.9 | 14.6 | 34.1 | 2.7 |
| No/Don't Use Air-Conditioning | 28.8 | 5.2 | 9.9 | 8.0 | 5.7 | 6.4 | 13.2 | 5.2 |
| Electric Air-Conditioning ² | 72.6 | 8.1 | 19.3 | 23.1 | 22.2 | 8.3 | 20.9 | 3.6 |
| Central Air-Conditioning ³ | 47.5 | 3.6 | 10.9 | 15.6 | 17.3 | 3.7 | 10.5 | 5.4 |
| Room/Wall Air-Conditioning | 25.2 | 4.4 | 8.4 | 7.5 | 4.9 | 4.6 | 10.4 | 5.7 |
| - | | | | Quadri | llion Btu | | | |
| Electric Air-Conditioning Btu | | | | | | | | |
| Consumption Total | 0.42 | 0.04 | 0.10 | 0.12 | 0.16 | 0.04 | 0.10 | 6.0 |
| Central Air-Conditioning | 0.42 | 0.04 | 0.10 | 0.12 | 0.16 | 0.04 | 0.10 | 7.6 |
| Room/Wall Air-Conditioning | 0.07 | 0.02 | 0.02 | 0.02 | 0.13 | 0.02 | 0.03 | 8.9 |
| - | 0.01 | 0.01 | 0.02 | | n kWh | 0.02 | 0.00 | 0.0 |
| - | | | | | | | | |
| Electric Air-Conditioning kWh Consumption Total | 122 | 11 | 20 | 25 | 48 | 10 | 20 | 6.0 |
| Central Air-Conditioning | 101 | 11 7 | 28 21 | 35 29 | 46 44 | 12 7 | 29 20 | 7.6 |
| Room/Wall Air-Conditioning | 21 | 4 | 7 | 6 | 4 | 4 | 9 | 8.9 |
| - | Million Btu per Household ⁴ | | | | | | | |
| - | | | | | | <u> </u> | | |
| Electric Air-Conditioning Btu Consumption per Household | | | | | | | | |
| Electric Air-Conditioning | 5.7 | 4.6 | 5.0 | 5.1 | 7.3 | 4.9 | 4.8 | 4.8 |
| Central Air-ConditioningRoom/Wall Air-Conditioning | 7.2 2.9 | 6.5 3.1 | 6.7 | 6.3 | 8.6 2.9 | 6.9 3.3 | 6.5 3.1 | 5.4 |
| Room/wall All-Conditioning | 2.9 | 3.1 | 3.0 | kWh ner l | | | 3.1 | 6.8 |
| - | | | | KWII PEI I | louseriolu | | | |
| Electric Air-Conditioning kWh Consumption per Household | | | | | | | | |
| Electric Air-Conditioning | 1,677 | 1,354 | 1,478 | 1,497 | 2,154 | 1,433 | 1,404 | 4.8 |
| Central Air-Conditioning | 2,123 | 1,894 | 1,950 | 1,853 | 2,522 | 2,035 | 1,897 | 5.4 |
| Room/Wall Air-Conditioning | 837 | 910 | 867 | 754 | 848 | 959 | 908 | 6.8 |
| - | | 1: | 997 Cooling | Degree-Da | ıys (CDD) p | per Household ⁴ | | |
| 1997 Cooling Degree-Days per Household | | | | | | | | |
| Total U.S. Households | 1,274 | 1,392 | 1,339 | 1,197 | 1,235 | 1,379 | 1,322 | 3.1 |
| No/Don't Use Air-Conditioning | 868 | 984 | 921 | 808 | 752 | 1,003 | 961 | 5.5 |
| | | | 1,553 | 1,332 | 1,359 | 1,666 | 1,551 | 3.2 |
| Electric Air-Conditioning | 1,435 | 1,657 | 1,000 | 1,002 | 1,000 | 1,000 | 1,001 | |
| | 1,435 1,576 | 1,829 | 1,805 | 1,482 | 1,464 | 1,894 | 1,737 | 4.2 |

Table CE3-3c. Electric Air-Conditioning Energy Consumption in U.S. Households by Household Income, 1997 (Continued)

| | Total | | 1997 Household Income | | | | Eli- gible for | | |
|--|--|--------------------------|----------------------------|----------------------------|------------------------|-----------------------|--|-----------------------|--|
| | | Less than \$10,000 | \$10,000 to \$24,999 | \$25,000 to \$49,999 | \$50,000 or More | Below Poverty Line | Fed- eral Assist- ance ¹ | | |
| RSE Column Factor: | | 1.7 | 1.0 | 0.8 | 0.9 | 1.4 | 1.0 | RSE Row Factors | |
| _ | Cooled Square Footage (CSF) per Household ⁴ | | | | | | | | |
| Cooled Square Footage per Household ⁵ Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,464 1,823 786 | 884 1,274 563 | 1,117 1,425 718 | 1,449 1,717 889 | 1,990 2,284 945 | 921 1,346 586 | 1,055 1,417 691 | 2.9 3.2 3.7 | |
| _ | | Air- | Conditionir | ng Intensity | [kWh÷{CD | D×(CSF÷1000)}]4 | | | |
| Air-Conditioning Intensity Electric Air-Conditioning | 0.80 0.74 | 0.92 0.81 | 0.85 0.76 | 0.78 0.73 | 0.80 0.75 | 0.93 0.80 | 0.86 0.77 | 2.9 3.4 | |

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

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

² 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.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

⁴ Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

Averages are for trose house reliable. The previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage.

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.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1997 Residential Energy Consumption Survey.

Table CE3-4c. Electric Air-Conditioning Energy Consumption in U.S. Households by Type of Housing Unit, 1997

| | | <u> </u> | | | | | | |
|--|---|---|---|---|---|---------------------------------|--|--|
| | | | Type of Ho | ousing Unit | | | | |
| | | | Multi | family | | | | |
| | Total | Single-Family | Two to Four Units | Five or More Units | Mobile Home | | | |
| RSE Column Factor: | 0.5 | 0.5 | 1.7 | 1.4 | 1.5 | RSE Row Factors | | |
| | | | Million Housel | nolds | | | | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning ¹ Central Air-Conditioning ² Room/Wall Air-Conditioning | 72.6 47.5 | 73.7 19.9 53.8 36.8 17.1 | 5.6 2.2 3.4 1.6 1.8 | 15.8 4.9 10.9 6.5 4.4 | 6.3 1.8 4.5 2.6 1.9 | 4.1 7.6 4.8 7.0 7.8 | | |
| | | | Quadrillion I | Btu | | | | |
| Electric Air-Conditioning Btu Consumption Total | | 0.33 0.28 0.05 | 0.01 0.01 (*) | 0.04 0.03 0.01 | 0.03 0.02 0.01 | 7.5 8.6 9.8 | | |
| | | | Billion kW | h | | | | |
| Electric Air-Conditioning kWh Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | | 97 82 15 | 3 2 1 | 12 10 2 | 10 7 3 | 7.5 8.6 9.8 | | |
| | Million Btu per Household ³ | | | | | | | |
| Electric Air-Conditioning Btu Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 7.2 | 6.1 7.6 3.0 | 3.3 5.1 1.7 | 3.7 5.0 1.8 | 7.5 9.3 5.1 | 5.7 5.9 7.1 | | |
| | | | kWh per House | ehold ³ | | | | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,677 2,123 837 | 1,798 2,221 886 | 957 1,496 484 | 1,086 1,474 519 | 2,204 2,716 1,488 | 5.7 5.9 7.1 | | |
| | | 1997 Cool | ing Degree-Days (C | DD) per Household | 3 | | | |
| 1997 Cooling Degree-Days per Household Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,274 868 1,435 1,576 1,169 | 1,257 838 1,411 1,520 1,178 | 1,084 779 1,280 1,591 1,007 | 1,418 1,001 1,607 1,907 1,167 | 1,282 942 1,420 1,545 1,245 | 4.6 7.4 4.7 5.6 4.9 | | |

Table CE3-4c. Electric Air-Conditioning Energy Consumption in U.S. Households by Type of Housing Unit, 1997 (Continued)

| | | Type of Housing Unit | | | | | | | |
|--|--|-----------------------|----------------------|----------------------|----------------------|-----------------------|--|--|--|
| | | | Multif | family | | | | | |
| | Total | Single-Family | Two to Four Units | Five or More Units | Mobile Home | | | | |
| RSE Column Factor: | 0.5 | 0.5 | 1.7 | 1.4 | 1.5 | RSE Row Factors | | | |
| | Cooled Square Footage (CSF) per Household ³ | | | | | | | | |
| Cooled Square Footage per Household ⁴ Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,464 1,823 786 | 1,699 2,063 915 | 770 1,035 537 | 747 937 470 | 904 1,125 594 | 2.7 2.6 3.6 | | | |
| - | Air-Conditioning Intensity [kWh÷{CDD×(CSF÷1000)}] ³ | | | | | | | | |
| Air-Conditioning Intensity Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 0.80 0.74 0.91 | 0.75 0.71 0.82 | 0.97 0.91 0.90 | 0.90 0.82 0.95 | 1.72 1.56 2.01 | 2.6 2.8 4.9 | | | |

¹ 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.

Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage. (*) = Value rounds to zero in the units displayed.

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 1997 Residential Energy Consumption Survey.

Table CE3-5u. Electric Air-Conditioning Energy Consumption and Expenditures in U.S. Households by Household Demographics, 1997

| | | | Electric Air-Conditioning | Energy | | | | |
|------------------------------------|--------------------------|----------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------|--|--|
| • | | То | tal | Per Hou | Per Household | | | |
| Household Demographics | Households (millions) | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | | | |
| RSE Column Factor: | 0.8 | 1.2 | 1.2 | 0.9 | 0.9 | RSE Row Factors | | |
| Total | 72.6 | 0.42 | 10.20 | 5.7 | 140 | 2.6 | | |
| | . 2.0 | 02 | 10.20 | U | | | | |
| Household Size | | | | | | | | |
| 1 Person | 17.7 | 0.07 | 1.83 | 4.1 | 104 | 3.9 | | |
| 2 Persons | 24.6 | 0.14 | 3.52 | 5.8 | 143 | 4.1 | | |
| 3 Persons | 12.2 | 0.08 | 1.89 | 6.4 | 155 | 4.4 | | |
| 4 Persons | 11.2 | 0.07 | 1.74 | 6.4 | 155 | 5.4 | | |
| 5 Persons 6 or More Persons | 4.4 2.5 | 0.03 0.02 | 0.71 0.50 | 6.6 8.2 | 162 199 | 7.3 11.2 | | |
| O OF MOTE PEISONS | 2.5 | 0.02 | 0.30 | 0.2 | 199 | 11.2 | | |
| 1997 Household Income Category | | | | | | | | |
| Less than \$5,000 | 2.0 | 0.01 | 0.22 | 4.4 | 107 | 10.4 | | |
| \$5,000 to \$9,999 | 6.1 | 0.03 | 0.70 | 4.7 | 115 | 12.4 | | |
| \$10,000 to \$14,999 | 6.3 | 0.03 | 0.74 | 4.8 | 118 | 8.0 | | |
| \$15,000 to \$19,999 | 7.1 | 0.04 | 0.90 | 5.1 | 128 | 7.6 | | |
| \$20,000 to \$24,999 | 5.9 | 0.03 | 0.74 | 5.2 | 126 | 6.3 | | |
| \$25,000 to \$34,999 | 11.4 | 0.05 | 1.33 | 4.8 | 116 | 4.2 | | |
| \$35,000 to \$49,999 | 11.7 | 0.06 | 1.53 | 5.4 | 131 | 4.5 | | |
| \$50,000 to \$74,999 | 13.4 | 0.09 | 2.15 | 6.5 | 161 | 5.0 | | |
| \$75,000 or More | 8.8 | 0.08 | 1.89 | 8.6 | 215 | 6.3 | | |
| Below Poverty Line | | | | | | | | |
| 100 Percent | 8.3 | 0.04 | 1.00 | 4.9 | 120 | 7.9 | | |
| 125 Percent | 11.6 | 0.06 | 1.42 | 5.0 | 123 | 7.7 | | |
| 150 Percent | 16.2 | 0.08 | 2.03 | 5.1 | 125 | 6.0 | | |
| Eligible for Federal | | | | | | | | |
| Assistance ¹ | 20.9 | 0.10 | 2.48 | 4.8 | 119 | 5.4 | | |
| Age of Householder | | | | | | | | |
| Under 25 Years | 3.5 | 0.02 | 0.41 | 4.8 | 119 | 8.1 | | |
| 25 to 34 Years | 12.7 | 0.07 | 1.61 | 5.2 | 127 | 4.2 | | |
| 35 to 44 Years | 16.4 | 0.11 | 2.56 | 6.4 | 156 | 4.4 | | |
| 45 to 59 Years | 18.8 | 0.13 | 3.08 | 6.8 | 164 | 4.2 | | |
| 60 Years and Over | 21.3 | 0.10 | 2.53 | 4.7 | 119 | 5.0 | | |
| Race of Householder | | | | | | | | |
| White | 58.2 | 0.34 | 8.15 | 5.8 | 140 | 2.9 | | |
| Black | 9.0 | 0.05 | 1.27 | 5.7 | 141 | 6.3 | | |
| Other ² | 5.4 | 0.03 | 0.78 | 5.3 | 145 | 12.3 | | |
| Householder of Hispanic Descent | | | | | | | | |
| Yes | 5.2 | 0.04 | 0.95 | 7.2 | 183 | 8.5 | | |
| No | 67.4 | 0.38 | 9.25 | 7.2 5.6 | 137 | 2.8 | | |
| | 07.7 | 0.00 | 5.25 | 3.0 | 137 | 2.0 | | |

Below 150 percent of poverty line or 60 percent of median State income.
 Includes 2.7 million householders who described themselves as Hispanic rather than White, Black, or other.
 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 1997 Residential Energy Consumption Survey.

Table CE3-6u. Electric Air-Conditioning Energy Consumption and Expenditures in U.S. Households by Usage Indicators, 1997

| | | | Electric Air-Conditioning | Energy | | |
|--|-------------------------|----------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|
| , | | То | tal | Per Hou | ısehold | |
| Usage Indicators | Households (million) | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | |
| RSE Column Factor: | 0.9 | 1.3 | 1.2 | 0.8 | 0.8 | RSE Row Factors |
| Total | 72.6 | 0.42 | 10.20 | 5.7 | 140 | 2.6 |
| Total | 72.0 | 0.42 | 10.20 | 5.7 | 140 | 2.0 |
| Type of Air-Conditioning ¹ | | | | | | |
| Electric Air-Conditioning | 72.6 | 0.42 | 10.20 | 5.7 | 140 | 2.6 |
| Central Air-Conditioning | 47.5 | 0.34 | 8.29 | 7.2 | 175 | 3.0 |
| Room Air-Conditioning | 25.2 | 0.07 | 1.91 | 2.9 | 76 | 4.7 |
| Percentage of Rooms Air-Conditioned in Summer 1997 | | | | | | |
| 100% | 50.2 | 0.35 | 8.51 | 7.0 | 169 | 3.1 |
| 50% to 99% | 11.4 | 0.05 | 1.13 | 4.0 | 99 | 6.0 |
| 25% to 49% | 7.0 | 0.01 | 0.38 | 2.0 | 55 | 6.8 |
| 1% to 24% | 4.0 | 0.01 | 0.17 | 1.5 | 43 | 8.1 |
| Household Size | | | | | | |
| 1 Person | 17.7 | 0.07 | 1.83 | 4.1 | 104 | 3.9 |
| 2 Persons | 24.6 | 0.14 | 3.52 | 5.8 | 143 | 4.1 |
| 3 Persons | 12.2 | 0.08 | 1.89 | 6.4 | 155 | 4.4 |
| 4 Persons | 11.2 | 0.07 | 1.74 | 6.4 | 155 | 5.4 |
| 5 Persons | 4.4 | 0.03 | 0.71 | 6.6 | 162 | 7.3 |
| 6 or More Persons | 2.5 | 0.02 | 0.50 | 8.2 | 199 | 11.2 |
| Comment Harris All Day | | | | | | |
| Someone Home All Day Yes | 36.2 | 0.22 | 5.31 | 6.0 | 147 | 3.9 |
| No | 36.5 | 0.22 | 4.89 | 5.5 | 134 | 3.4 |
| | | | **** | | : - | - |
| Large Tree(s) that Shades the Home | 05.5 | 0.00 | 5.40 | 0.4 | 454 | 4.0 |
| Yes | 35.5 37.2 | 0.23 | 5.48 4.72 | 6.4 5.1 | 154 127 | 4.2 3.9 |
| No | 31.2 | 0.19 | 4.72 | J. I | 121 | 3.9 |
| Adequacy of Insulation | | | | | | |
| Well Insulated | 29.7 | 0.18 | 4.39 | 6.1 | 148 | 4.0 |
| Adequately Insulated | 31.5 | 0.18 | 4.53 | 5.9 | 144 | 3.4 |
| Poorly Insulated | 11.2 | 0.05 | 1.25 | 4.4 | 112 | 5.6 |
| Not Insulated | 0.2 | (*) | 0.02 | 3.9 | 103 | 30.2 |
| Cooling Degree-Days (CDD)-1997 Use Central Air-Conditioning | | | | | | |
| 2,000 or More | 12.2 | 0.16 | 3.92 | 13.4 | 322 | 6.8 |
| 1,000 to 1,999 | 18.3 | 0.12 | 2.90 | 6.8 | 158 | 5.6 |
| 500 to 999 | 12.7 | 0.05 | 1.23 | 3.7 | 97 | 6.9 |
| Fewer than 500 | 4.2 | 0.01 | 0.24 | 2.2 | 56 | 13.1 |
| Use Room Air-Conditioner | 0.4 | 0.00 | 0.00 | 0.0 | 200 | 44.7 |
| 2,000 or More | 3.1 | 0.03 | 0.63 | 8.3 | 202 | 11.7 |
| 1,000 to 1,999 500 to 999 | 8.7 9.8 | 0.03 0.02 | 0.70 0.48 | 3.1 1.6 | 81 49 | 6.5 6.9 |
| Fewer than 500 | 3.5 | (*) | 0.09 | 1.0 | 25 | 14.9 |
| | | () | | | | |
| Air-Conditioning Use Summer 1997 ² | | | | | | |
| Central Air-Conditioning | | | | | | |
| Only a Few Times | 12.6 | 0.04 | 1.07 | 3.2 | 85 | 5.0 |
| Quite a Bit | 10.5 | 0.07 | 1.64 | 6.2 | 157 | 4.8 |
| All Summer | 24.4 | 0.24 | 5.58 | 9.8 | 229 | 3.8 |

Table CE3-6u. Electric Air-Conditioning Energy Consumption and Expenditures in U.S. Households by Usage Indicators, 1997 (Continued)

| | Electric Air-Conditioning Energy | | | | | | | | |
|---|----------------------------------|----------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|--|--|--|
| | | То | tal | Per Hot | usehold | | | | |
| Usage Indicators | Households (million) | Consumption (quadrillion Btu) | Expenditures (billion dollars) | Consumption (million Btu) | Expenditures (dollars) | | | | |
| RSE Column Factor: | 0.9 | 1.3 | 1.2 | 0.8 | 0.8 | RSE Row Factors | | | |
| Room Air-Conditioners | | | | | , | | | | |
| Only a Few Times | 13.2 | 0.02 | 0.66 | 1.7 | 50 | 4.6 | | | |
| Quite a Bit | 6.5 | 0.02 | 0.42 | 2.4 | 65 | 6.8 | | | |
| All Summer | 5.5 | 0.02 | 0.83 | 6.1 | 151 | 7.9 | | | |
| Electric Air-Conditioning Paid by Household Central Air-Conditioning | | | | | | | | | |
| Yes | 46.2 | 0.34 | 8.13 | 7.3 | 176 | 3.0 | | | |
| NoRoom Air-Conditioner | 1.1 | 0.01 | 0.14 | 5.8 | 130 | 18.4 | | | |
| Yes | 23.4 | 0.07 | 1.80 | 2.9 | 77 | 4.9 | | | |
| No | 1.7 | (*) | 0.10 | 2.1 | 58 | 19.2 | | | |
| Age of Air-Conditioners ² (excludes systems for more than one housing unit) Central Air-Conditioner | | | | | | | | | |
| Less than 5 Years | 13.1 | 0.09 | 2.12 | 6.8 | 162 | 6.4 | | | |
| 5 to 9 Years | 14.1 | 0.11 | 2.61 | 7.6 | 185 | 5.9 | | | |
| 10 to 19 Years | 12.8 | 0.10 | 2.38 | 7.9 | 187 | 5.3 | | | |
| 20 or More Years | 3.9 | 0.02 | 0.61 | 6.1 | 154 | 8.4 | | | |
| Don't Know Room Air-Conditioner | 2.7 | 0.02 | 0.46 | 7.1 | 169 | 11.0 | | | |
| Less than 5 Years | 8.7 | 0.03 | 0.71 | 3.1 | 81 | 6.6 | | | |
| 5 to 9 Years | 6.9 | 0.02 | 0.52 | 2.8 | 76 | 7.4 | | | |
| 10 or 19 Years | 5.7 | 0.02 | 0.43 | 2.9 | 76 | 7.5 | | | |
| 20 or More Years Don't Know | 2.0 1.9 | (*) (*) | 0.12 0.12 | 2.3 2.2 | 62 62 | 10.3 13.6 | | | |
| Average Cost of Electricity (cents per kWh) Central Air-Conditioning | | | | | | | | | |
| Less than 6 | 4.1 | 0.03 | 0.46 | 7.1 | 113 | 11.5 | | | |
| 6 to 8.99 | 28.4 | 0.25 | 5.73 | 8.8 | 202 | 4.3 | | | |
| 9 or More | 15.0 | 0.06 | 2.10 | 4.3 | 140 | 7.2 | | | |
| Room Air-Conditioning | | | | | 44 | | | | |
| Less than 6 | 1.7 | (*) | 0.08 | 2.8 | • • • | 17.7 | | | |
| 6 to 8.99 | 10.0 | 0.04 | 1.01 | 4.4 | 101 | 8.0 | | | |
| 9 or More | 13.4 | 0.02 | 0.82 | 1.7 | 61 | 5.9 | | | |

¹ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

2 If a household has both a central and room air-conditioner then the usage and age of the equipment is presented only for the central unit.

 [&]quot;I a nouseroid has both a central and room air-conditioner then the usage and age of the equipment is presented only for the central unit.
 (*) = Value rounds to zero in the units displayed.
 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 1997 Residential Energy Consumption Survey.

Table CE3-7c. Electric Air-Conditioning Energy Consumption in U.S. Households by Four Most Populated States, 1997

| | • | | | | | |
|---|--|---|--|---|---|-----------------------|
| | | | Four Most Po | pulated States | | |
| | Total U.S. | New York | California | Texas | Florida | |
| RSE Column Factor: | 0.4 | 1.4 | 1.7 | 1.1 | 1.1 | RSE Row Factors |
| | | | Million Househ | olds | | |
| Total U.S. Households | 101.5 | 6.8 | 11.5 | 7.0 | 5.9 | NF |
| No/Don't Use Air-Conditioning | | 2.6 | 6.9 | 0.6 | 0.3 | 11.5 |
| Electric Air-Conditioning ¹ | | 4.2 | 4.6 | 6.3 | 5.6 | 3.3 |
| Central Air-Conditioning ² | | 1.3 | 3.2 | 4.8 | 4.9 | 5.4 |
| Room/Wall Air-Conditioning | 25.2 | 3.0 | 1.4 | 1.6 | 0.7 | 10.7 |
| | | | Quadrillion B | tu | | |
| Electric Air-Conditioning Btu | | | | | | |
| Consumption | | | | | | |
| Total | 0.42 | 0.01 | 0.02 | 0.07 | 0.07 | 10.0 |
| Central Air-Conditioning | | (*) | 0.01 | 0.06 | 0.07 | 10.1 |
| Room/Wall Air-Conditioning | 0.07 | (*) | (*) | 0.01 | 0.01 | 17.5 |
| | | | Billion kWh | 1 | | |
| Electric Air-Conditioning kWh | | | | | | |
| Consumption | | | | | | |
| Total | | 2 | 5 | 22 | 21 | 10.0 |
| Central Air-Conditioning Room/Wall Air-Conditioning | | 1 1 | 4 1 | 18 3 | 20 2 | 10.1 17.5 |
| rtoon, van 7til Conditioning | | | Million Btu per Hou | - | | 17.0 |
| | | | Million Blu per riot | .scrioiu | | |
| Electric Air-Conditioning Btu Consumption per Household | | | | | | |
| Electric Air-Conditioning | 5.7 | 1.8 | 3.6 | 11.6 | 13.1 | 7.8 |
| Central Air-Conditioning | 7.2 | 2.4 | 4.4 | 13.0 | 13.8 | 8.7 |
| | 0.0 | | 4.0 | | | 1 40 7 |
| Room/Wall Air-Conditioning | 2.9 | 1.5 | 1.9 | 7.5 | 8.5 | 10.7 |
| Room/Wall Air-Conditioning | 2.9 | | 1.9 kWh per House | 7.5 | | 10.7 |
| Electric Air-Conditioning kWh | 2.9 | | | 7.5 | | 10.7 |
| Electric Air-Conditioning kWh Consumption per Household | | 1.5 | kWh per House | 7.5 | 8.5 | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 | 1.5 | kWh per House | 7.5 hold ³ | 3,842 | 7.8 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 2,123 | 1.5 518 716 | kWh per House 1,065 1,293 | 7.5 hold ³ 3,408 3,809 | 3,842 4,042 | 7.8 8.7 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 2,123 | 518 716 434 | 1,065 1,293 546 | 7.5 hold ³ 3,408 3,809 2,192 | 3,842 4,042 2,503 | 7.8 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 2,123 | 518 716 434 | kWh per House 1,065 1,293 | 7.5 hold ³ 3,408 3,809 2,192 | 3,842 4,042 2,503 | 7.8 8.7 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 2,123 837 | 518 716 434 1997 Cooli | 1,065 1,293 546 ing Degree-Days (CI | 7.5 hold ³ 3,408 3,809 2,192 DD) per Household ³ | 3,842 4,042 2,503 | 7.8 8.7 10.7 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning 1997 Cooling Degree-Days per Household Total U.S. Households | 1,677 2,123 837 | 518 716 434 1997 Cool i | 1,065 1,293 546 ing Degree-Days (CI | 7.5 hold ³ 3,408 3,809 2,192 DD) per Household ³ 2,494 | 3,842 4,042 2,503 | 7.8 8.7 10.7 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning 1997 Cooling Degree-Days per Household Total U.S. Households No/Don't Use Air-Conditioning | 1,677 2,123 837 1,274 868 | 518 716 434 1997 Cool i | 1,065 1,293 546 ing Degree-Days (CI | 7.5 hold ³ 3,408 3,809 2,192 DD) per Household ³ 2,494 2,125 | 3,842 4,042 2,503 3,547 3,567 | 7.8 8.7 10.7 |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning 1997 Cooling Degree-Days per Household Total U.S. Households | 1,677 2,123 837 1,274 868 1,435 | 518 716 434 1997 Cool i | 1,065 1,293 546 ing Degree-Days (CI | 7.5 hold ³ 3,408 3,809 2,192 DD) per Household ³ 2,494 | 3,842 4,042 2,503 | 7.8 8.7 10.7 |

Table CE3-7c. Electric Air-Conditioning Energy Consumption in U.S. Households by Four Most Populated States, 1997 (Continued)

| | Four Most Pop | ulated States | | | | | |
|---------------|---|---|---|---|--|--|--|
| | Four Most Populated State | | | | | | |
| New York | California | Texas | Florida | | | | |
| 1.4 | 1.7 | 1.1 | 1.1 | RSE Row Factors | | | |
| Cooled S | quare Footage (CSF |) per Household ³ | | | | | |
| | | | | | | | |
| 1,081 | 1,297 | 1,402 | 1,523 | 5.4 | | | |
| | , | , | , | 5.9 | | | |
| 713 | 556 | 748 | 822 | 7.8 | | | |
| Air-Condition | ning Intensity [kWh÷ | (CDD×(CSF÷1000) | }] 3 | | | | |
| | | | | | | | |
| | | | | | | | |
| 0.61 | 0.59 | 0.96 | 0.71 | 2.7 | | | |
| 0.63 | | | 0.70 | 3.5 | | | |
| 0.70 | 0.77 | 1.17 | 0.82 | 5.6 | | | |
| | 1.4 Cooled S 1,081 1,953 713 Air-Condition 0.61 | 1.4 1.7 Cooled Square Footage (CSF 1,081 1,297 1,953 1,622 713 556 Air-Conditioning Intensity [kWh÷ 0.61 0.59 0.63 0.56 | 1.4 1.7 1.1 Cooled Square Footage (CSF) per Household ³ 1,081 1,297 1,402 1,953 1,622 1,617 713 556 748 Air-Conditioning Intensity [kWh÷{CDD×(CSF÷1000)}] 0.61 0.59 0.96 0.63 0.56 0.93 | 1.4 1.7 1.1 1.1 Cooled Square Footage (CSF) per Household ³ 1,081 1,297 1,402 1,523 1,953 1,622 1,617 1,627 713 556 748 822 Air-Conditioning Intensity [kWh÷{CDD×(CSF÷1000)}] ³ 0.61 0.59 0.96 0.71 0.63 0.56 0.93 0.70 | | | |

¹ 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

NF = No applicable RSE row factor.

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.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage.

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

Table CE3-8c. Electric Air-Conditioning Energy Consumption in U.S. Households by Urban/Rural Location, 1997

| | | 1 | | | | |
|--|---|---|---|---|---|---------------------------------|
| | | | Urban/Rui | ral Location ¹ | | |
| | Total | City | Town | Suburbs | Rural | |
| RSE Column Factor: | 0.6 | 0.8 | 1.5 | 1.2 | 1.2 | RSE Row Factors |
| | | | Million House | holds | | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning ² Central Air-Conditioning ³ Room/Wall Air-Conditioning | 101.5 28.8 72.6 47.5 25.2 | 48.2 15.1 33.1 20.5 12.6 | 18.2 5.1 13.1 7.8 5.4 | 18.6 3.7 14.8 11.9 2.9 | 16.5 4.9 11.5 7.2 4.3 | 4.1 7.0 4.4 5.5 6.9 |
| | | | Quadrillion | Btu | | |
| Electric Air-Conditioning Btu Consumption Total | 0.42 0.34 0.07 | 0.18 0.15 0.04 | 0.06 0.05 0.01 | 0.10 0.10 0.01 | 0.07 0.05 0.01 | 6.3 7.0 9.7 |
| | | | Billion kW | | | |
| Electric Air-Conditioning kWh Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | | 54 43 11 | 18 14 4 | 31 28 2 | 20 15 4 | 6.3 7.0 9.7 |
| Roon/Wall All-Collutioning | 21 | | Million Btu per Ho | | 4 | 9.1 |
| Electric Air-Conditioning Btu Consumption per Household Electric Air-Conditioning | 5.7 7.2 2.9 | 5.5 7.2 2.9 | 4.6 6.0 2.5 | 7.0 8.1 2.7 | 5.9 7.3 3.4 | 4.5 4.6 7.1 |
| | | | kWh per Hous | ehold ⁴ | | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 2,123 | 1,624 2,106 | 1,339 1,766 | 2,066 2,378 | 1,715 2,131 | 4.5 4.6 |
| Room/Wall Air-Conditioning | 837 | 841 | 719 | 785 | 1,009 | 7.1 |
| | | 1997 Cool | ing Degree-Days (C | CDD) per Household | 4 | |
| 1997 Cooling Degree-Days per Household Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,274 868 1,435 1,576 1,169 | 1,401 993 1,586 1,794 1,248 | 1,071 690 1,219 1,362 1,011 | 1,293 818 1,412 1,484 1,118 | 1,105 705 1,276 1,340 1,166 | 3.8 6.7 3.8 4.4 4.9 |

Table CE3-8c. Electric Air-Conditioning Energy Consumption in U.S. Households by Urban/Rural Location, 1997 (Continued)

| | | Urban/Rural Location ¹ | | | | | | |
|--|-----------------------|-----------------------------------|-----------------------|--------------------------------|-------------------------|-----------------------|--|--|
| | Total | City | Town | Suburbs | Rural | | | |
| RSE Column Factor: | 0.6 | 0.8 | 1.5 | 1.2 | 1.2 | RSE Row Factors | | |
| | | Cooled S | quare Footage (CS | SF) per Household ⁴ | | | | |
| Cooled Square Footage per Household ⁵ Electric Air-Conditioning | 1,464 1,823 786 | 1,295 1,653 713 | 1,429 1,823 856 | 1,832 2,068 863 | 1,514 1,900 859 | 2.7 2.5 4.2 | | |
| _ | | Air-Condition | ning Intensity [kWl | n÷{CDD×(CSF÷1000) |)}] ⁴ | | | |
| Air-Conditioning Intensity Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 0.80 0.74 0.91 | 0.79 0.71 0.95 | 0.77 0.71 0.83 | 0.80 0.78 0.81 | 0.89 0.84 1.01 | 2.5 2.6 4.9 | | |

¹ Based on the household respondent's description rather than the Federal Government definition.

² 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.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count

Includes 642,000 households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
 4 Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
 5 In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage.

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.

Table CE3-9c. Electric Air-Conditioning Energy Consumption in U.S. Households by Northeast Census Region, 1997

| | | 1 | | | |
|---|-----------------------|-----------------------------------|---|---------------------------------|---------------------------------|
| | | | Northeast Census Regi | on | |
| | | | Census | Division | |
| | Total U.S. | Total | Middle Atlantic | New England | |
| RSE Column Factor: | 0.5 | 1.0 | 1.1 | 1.9 | RSE Row Factors |
| | | Mill | ion Households | | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning ¹ Central Air-Conditioning ² Room/Wall Air-Conditioning | 28.8 72.6 47.5 | 19.7 7.6 12.2 4.4 7.8 | 14.4 4.7 9.7 4.0 5.7 | 5.3 2.8 2.5 0.4 2.1 | NF 6.9 4.2 11.2 7.4 |
| | | Q | tuadrillion Btu | | |
| Electric Air-Conditioning Btu Consumption Total | 0.34 | 0.02 0.01 0.01 | 0.02 0.01 0.01 | (*) (*) (*) | 7.4 11.4 9.8 |
| | | | Billion kWh | | |
| Electric Air-Conditioning kWh Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | 101 | 7 4 3 Million | 6 4 2 Btu per Household ³ | (*) 1 | 7.4 11.4 9.8 |
| Floatric Air Conditioning Dtv Consumption nor | | | | | |
| Electric Air-Conditioning Btu Consumption per Household Electric Air-Conditioning | 7.2 | 2.0 3.2 1.4 | 2.2 3.3 1.4 | 1.5 2.7 1.3 | 5.0 7.2 5.1 |
| | | kWh | per Household ³ | | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 | 599 | 640 | 438 | 5.0 |
| Central Air-Conditioning | 2,123 837 | 938 409 | 954 422 | 784 370 | 7.2 5.1 |
| | 1 | 997 Cooling Degr | ee-Days (CDD) per H | ousehold ³ | |
| 1997 Cooling Degree-Days per Household Total U.S. Households | 868 1,435 1,576 | 688 627 725 673 755 | 743 719 755 679 808 | 537 473 609 614 608 | 3.9 6.5 2.8 4.8 2.8 |

Table CE3-9c. Electric Air-Conditioning Energy Consumption in U.S. Households by Northeast Census Region, 1997 (Continued)

| | | Northeast Census Region | | | |
|--|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| | | | Census Division | | |
| | Total U.S. | Total | Middle Atlantic | New England | |
| RSE Column Factor: | 0.5 | 1.0 | 1.1 | 1.9 | RSE Row Factors |
| | | Cooled Square Fo | ootage (CSF) per Ho | usehold ³ | |
| Cooled Square Footage per Household ⁴ Electric Air-Conditioning | 1,464 1,823 786 | 1,271 2,158 774 | 1,323 2,148 751 | 1,070 2,262 836 | 5.0 5.2 5.0 |
| _ | Air | -Conditioning Inte | nsity [kWh÷{CDD×(C | SF÷1000)}] ³ | |
| Air-Conditioning Intensity Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 0.80 0.74 0.91 | 0.65 0.65 0.70 | 0.64 0.65 0.70 | 0.67 0.56 0.73 | 2.4 4.5 3.5 |

¹ 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.

were treated as if the fuel was electricity.

Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

³ Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

⁴ In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage.

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

NF = No applicable RSE row factor.

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 1997 Residential Energy Consumption Survey.

Table CE3-10c. Electric Air-Conditioning Energy Consumption in U.S. Households by Midwest Census Region, 1997

| | | , | Midwest Census Regio | on | |
|--|---|------------------------------------|--|---------------------------------|---------------------------------|
| | | | Census | Division | |
| | Total U.S. | Total | East North Central | West North Central | |
| RSE Column Factor: | 0.6 | 0.9 | 1.2 | 1.6 | RSE Row Factors |
| | | Millie | on Households | | |
| Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning ¹ Central Air-Conditioning ² Room/Wall Air-Conditioning | 101.5 28.8 72.6 47.5 25.2 | 24.1 5.5 18.6 12.3 6.3 | 16.9 4.6 12.4 8.0 4.3 | 7.2 0.9 6.3 4.3 2.0 | NF 8.0 2.2 4.2 8.1 |
| | | Qı | uadrillion Btu | | |
| Electric Air-Conditioning Btu Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | 0.42 0.34 0.07 | 0.06 0.05 0.01 | 0.04 0.03 0.01 | 0.03 0.02 (*) | 5.9 7.0 9.7 |
| | | | Billion kWh | | |
| Electric Air-Conditioning kWh Consumption Total Central Air-Conditioning Room/Wall Air-Conditioning | 122 101 21 | 18 15 3 Million E | 11 9 2 Stu per Household ³ | 7 6 1 | 5.9 7.0 9.7 |
| | | | · · | | |
| Electric Air-Conditioning Btu Consumption per Household Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 5.7 7.2 2.9 | 3.3 4.2 1.7 | 3.0 3.7 1.5 | 4.1 5.0 1.9 | 5.0 4.5 6.6 |
| | | kWh | per Household ³ | | |
| Electric Air-Conditioning kWh Consumption per Household Electric Air-Conditioning | 1,677 | 978 | 870 | 1,191 | 5.0 |
| Central Air-Conditioning Room/Wall Air-Conditioning | 2,123 837 | 1,228 486 | 1,096 447 | 1,131 1,474 571 | 4.5 6.6 |
| | 1 | 997 Cooling Degre | e-Days (CDD) per H | lousehold ³ | |
| 1997 Cooling Degree-Days per Household Total U.S. Households No/Don't Use Air-Conditioning Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,274 868 1,435 1,576 1,169 | 704 592 737 754 703 | 637 563 664 670 653 | 862 739 880 911 811 | 4.2 4.0 4.5 4.9 4.8 |

Table CE3-10c. Electric Air-Conditioning Energy Consumption in U.S. Households by Midwest Census Region, 1997 (Continued)

| | | Midwest Census Region | | | |
|--|-----------------------|-----------------------|-----------------------|--------------------------|-----------------------|
| | | | Census | Division | |
| | Total U.S. | Total | East North Central | West North Central | |
| RSE Column Factor: | 0.6 | 0.9 | 1.2 | 1.6 | RSE Row Factors |
| _ | | Cooled Square F | ootage (CSF) per Ho | usehold ³ | |
| Cooled Square Footage per Household ⁴ Electric Air-Conditioning | 1,464 1,823 786 | 1,701 2,137 843 | 1,671 2,132 813 | 1,758 2,145 909 | 3.2 3.0 5.5 |
| _ | Air | -Conditioning Inte | ensity [kWh÷{CDD×(0 | CSF÷1000)}] ³ | |
| Air-Conditioning Intensity Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 0.80 0.74 0.91 | 0.78 0.76 0.82 | 0.78 0.77 0.84 | 0.77 0.75 0.77 | 2.5 2.3 5.8 |

¹ 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.

were treated as if the fuel was electricity.

Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

³ Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

⁴ In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage.

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

NF = No applicable RSE row factor.

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 1997 Residential Energy Consumption Survey.

Table CE3-11c. Electric Air-Conditioning Energy Consumption in U.S. Households by South Census Region, 1997

| | | T | | | | |
|--|---------------|--------------|--------------------|----------------------------|--------------------|-----------------------|
| | | | Sou | th Census Region | | |
| | | | | Census Division | | |
| | Total U.S. | Total | South Atlantic | East South Central | West South Central | |
| RSE Column Factor: | 0.6 | 0.8 | 1.1 | 1.4 | 1.3 | RSE Row Factors |
| | | | Million | Households | | |
| | | | | | | |
| Total U.S. Households | 101.5 | 35.9 | 18.7 | 6.3 | 10.8 | NF |
| No/Don't Use Air-Conditioning | 28.8 | 2.7 | 1.5 | 0.4 | 0.8 | 11.5 |
| Electric Air-Conditioning ¹ Central Air-Conditioning ² | 72.6 | 33.2 | 17.2 13.3 | 6.0 4.2 | 10.0 | 1.6 3.2 |
| Room/Wall Air-Conditioning | 47.5 25.2 | 24.9 8.3 | 3.9 | 4.2 1.8 | 7.4 2.6 | 6.7 |
| Noon/waii Aii-Conditioning | 23.2 | 0.3 | 3.9 | 1.0 | 2.0 | 0.7 |
| - | | | Quad | drillion Btu | | |
| Electric Air-Conditioning Btu | | | | | | |
| Consumption | 0.40 | 0.20 | 0.14 | 0.04 | 0.11 | 1 40 |
| Total | 0.42 | 0.29 | 0.14 | 0.04 | 0.11 | 4.9 |
| Central Air-Conditioning Room/Wall Air-Conditioning | 0.34 0.07 | 0.25 0.04 | 0.12 0.02 | 0.03 0.01 | 0.09 0.02 | 5.3 9.6 |
| Room/ Wall All-Conditioning | 0.07 | 0.04 | 0.02 | 0.01 | 0.02 | 9.0 |
| - | | | Bill | lion kWh | | Т |
| Electric Air-Conditioning kWh | | | | | | |
| Consumption | | | | | | |
| Total | 122 | 85 | 41 | 12 | 32 | 4.9 |
| Central Air-Conditioning | 101 21 | 72 13 | 35 5 | 10 2 | 26 6 | 5.3 9.6 |
| Room/Wall Air-Conditioning | 21 | 13 | | | 0 | 9.0 |
| - | | | Million Btu | per Household ³ | | |
| Electric Air-Conditioning Btu Consumption per Household | | | | | | |
| Electric Air-Conditioning | 5.7 | 8.8 | 8.1 | 7.0 | 11.0 | 4.5 |
| Central Air-Conditioning | 7.2 | 9.9 | 9.1 | 8.3 | 12.2 | 4.2 |
| Room/Wall Air-Conditioning | 2.9 | 5.4 | 4.5 | 4.1 | 7.4 | 7.1 |
| | | | kWh pe | r Household ³ | | |
| Electric Air-Conditioning kWh | | | | | | |
| Consumption per Household | | | | | | |
| Electric Air-Conditioning | 1,677 | 2,566 | 2,363 | 2,064 | 3,214 | 4.5 |
| Central Air-Conditioning | 2,123 | 2,899 | 2,665 | 2,426 | 3,589 | 4.2 |
| Room/Wall Air-Conditioning | 837 | 1,571 | 1,329 | 1,207 | 2,170 | 7.1 |
| _ | | 199 | 7 Cooling Degree-I | Days (CDD) per House | hold ³ | |
| 4007 Cooling Dogroo Dove you Househald | | | | | | |
| 1997 Cooling Degree-Days per Household Total U.S. Households | 1,274 | 2,044 | 2,023 | 1,518 | 2,387 | 4.3 |
| No/Don't Use Air-Conditioning | 868 | 1,840 | 1,758 | 1,481 | 2,149 | 7.6 |
| Electric Air-Conditioning | 1,435 | 2,060 | 2,046 | 1,520 | 2,406 | 4.2 |
| Central Air-Conditioning | 1,576 | 2,112 | 2,137 | 1,529 | 2,399 | 4.5 |
| Room/Wall Air-Conditioning | 1,169 | 1,905 | 1,737 | 1,500 | 2,425 | 4.7 |
| _ | | | | | | |

Table CE3-11c. Electric Air-Conditioning Energy Consumption in U.S. Households by South Census Region, 1997 (Continued)

| | | South Census Region | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-----------------------|--|
| | | | | Census Division | | | |
| | Total U.S. | Total | South Atlantic | East South Central | West South Central | | |
| RSE Column Factor: 0.6 | 0.6 | 0.8 | 1.1 | 1.4 | 1.3 | RSE Row Factors | |
| | | (| Cooled Square Foot | age (CSF) per Househo | old ³ | | |
| Cooled Square Footage per Household ⁴ Electric Air-Conditioning Central Air-Conditioning Room/Wall Air-Conditioning | 1,464 1,823 786 | 1,443 1,659 796 | 1,496 1,695 813 | 1,407 1,679 765 | 1,375 1,584 791 | 2.6 2.8 4.3 | |
| - - | | Air-C | Conditioning Intensi | ty [kWh÷{CDD×(CSF÷1 | 000)}] ³ | | |
| Air-Conditioning Intensity Electric Air-Conditioning | 0.80 | 0.86 | 0.77 | 0.97 | 0.97 | 1.8 | |
| Central Air-Conditioning Room/Wall Air-Conditioning | 0.74 0.91 | 0.83 1.04 | 0.74 0.94 | 0.95 1.05 | 0.94 1.13 | 1.9 4.0 | |

¹ 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.

Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a large during the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage. NF = No applicable RSE row factor.

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.

Table CE3-12c. Electric Air-Conditioning Energy Consumption in U.S. Households by West Census Region, 1997

| | | 1001 | | | |
|--|----------------|----------------|-----------------------------------|--------------|-----------------------|
| | | | West Census Region | | |
| | | | Census | Division | |
| | Total U.S. | Total | Mountain | Pacific | |
| RSE Column Factor: | 0.4 | 1.1 | 1.8 | 1.4 | RSE Row Factors |
| | | | Million Households | | |
| T. (110 Hz. (114 Hz.) | 404.5 | 04.0 | 0.0 | 45.0 | N.E. |
| Total U.S. Households | 101.5 28.8 | 21.8 13.2 | 6.2 3.2 | 15.6 9.9 | NF 6.7 |
| Electric Air-Conditioning ¹ | 72.6 | 8.7 | 2.9 | 5.7 | 6.9 |
| Central Air-Conditioning ² | 47.5 | 5.9 | 2.1 | 3.8 | 7.9 |
| Room/Wall Air-Conditioning | 25.2 | 2.8 | 0.8 | 1.9 | 11.3 |
| _ | | | Quadrillion Btu | | T |
| Electric Air-Conditioning Btu Consumption | | | | | |
| Total | 0.42 | 0.04 | 0.02 | 0.02 | 9.6 |
| Central Air-Conditioning | 0.34 0.07 | 0.03 0.01 | 0.02 (*) | 0.02 (*) | 10.3 14.4 |
| Room/Wall Air-Conditioning | 0.07 | 0.01 | () | () | 14.4 |
| _ | | | Billion kWh | | |
| Electric Air-Conditioning kWh Consumption | 400 | 44 | | 0 | 0.0 |
| Total Central Air-Conditioning | 122 101 | 11 9 | 6 5 | 6 5 | 9.6 |
| Room/Wall Air-Conditioning | 21 | 2 | 1 | 1 | 14.4 |
| _ | | Milli | on Btu per Household ³ | | |
| Electric Air-Conditioning Btu Consumption per | | | | | |
| Household | | | | | |
| Electric Air-Conditioning Central Air-Conditioning | 5.7 7.2 | 4.4 5.4 | 6.4 7.8 | 3.4 4.1 | 8.6 8.0 |
| Room/Wall Air-Conditioning | 2.9 | 2.2 | 2.8 | 1.9 | 11.8 |
| | | k | Wh per Household ³ | | |
| Electric Air-Conditioning kWh Consumption per | | | | | |
| Household | | | | | |
| Electric Air-Conditioning | 1,677 | 1,287 | 1,870 | 987 | 8.6 |
| Central Air-ConditioningRoom/Wall Air-Conditioning | 2,123 837 | 1,594 639 | 2,292 815 | 1,205 562 | 8.0 11.8 |
| _ | | | egree-Days (CDD) per H | | |
| _ | | | | | |
| 1997 Cooling Degree-Days per Household | | | | | |
| Total U.S. Households | 1,274 | 1,166 | 1,562 | 1,010 | 6.6 |
| No/Don't Use Air-Conditioning Electric Air-Conditioning | 868 1 435 | 923 1 536 | 1,053 2,122 | 880 1,235 | 9.3 7.2 |
| Central Air-Conditioning | 1,435 1,576 | 1,536 1,705 | 2,122 2,482 | 1,235 | 7.5 |
| Room/Wall Air-Conditioning | 1,169 | 1,181 | 1,225 | 1,162 | 9.4 |
| - - | | | | | |

Table CE3-12c. Electric Air-Conditioning Energy Consumption in U.S. Households by West Census Region, 1997 (Continued)

| | | | West Census Region | | |
|--|---------------|--------------------|-----------------------|-------------------------|-----------------------|
| | | | Census | Division | |
| | Total U.S. | Total | Mountain | Pacific | |
| RSE Column Factor: | 0.4 | 1.1 | 1.8 | 1.4 | RSE Row Factors |
| _ | | Cooled Square | Footage (CSF) per Ho | usehold ³ | |
| Cooled Square Footage per Household ⁴ | | | | | |
| Electric Air-Conditioning | 1,464 | 1,303 | 1,294 | 1,308 | 4.6 |
| Central Air-ConditioningRoom/Wall Air-Conditioning | 1,823 786 | 1,609 659 | 1,540 679 | 1,647 650 | 4.3 6.3 |
| _ | | Air-Conditioning I | ntensity [kWh÷{CDD×(C | SF÷1000)}] ³ | |
| Air Conditioning Intensity | | | | | |
| Air-Conditioning Intensity Electric Air-Conditioning | 0.80 | 0.64 | 0.68 | 0.61 | 4.4 |
| Central Air-Conditioning | 0.74 | 0.58 | 0.60 | 0.58 | 4.4 |
| Room/Wall Air-Conditioning | 0.91 | 0.82 | 0.98 | 0.74 | 6.5 |

¹ 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.

Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These room/wall air-conditioners are not included in the count of 25.2 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
 In previous RECS, square footage measurements were obtained during the personal interview. In the 1997 RECS, square footage was estimated using a regression equation developed with the 1993 RECS data. The 1997 RECS estimated square footage tends to be larger than the 1993 measured square footage. (*) = Value rounds to zero in the units displayed.

NF = No applicable RSE row factor.

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 1997 Residential Energy Consumption Survey.