

**Table C15A. Electricity Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003**

|  | Total Electricity Consumption<br>(billion kWh) |          |       |      | Total Floorspace of Buildings Using Electricity<br>(million square feet) |          |        |        | Electricity Energy Intensity<br>(kWh/square foot) |          |       |      |
|--|--|----------|-------|------|--|----------|--------|--------|---|----------|-------|------|
|  | North-east                                     | Mid-west | South | West | North-east   | Mid-west | South  | West   | North-east  | Mid-west | South | West |
| <b>All Buildings</b> .....               | 172  | 234      | 452   | 185  | 13,899   | 17,725   | 26,017 | 12,541 | 12.4  | 13.2     | 17.4  | 14.7 |
| <b>Building Floorspace (Square Feet)</b> |  |          |       |      |  |          |        |        |   |          |       |      |
| 1,001 to 5,000 .....                     | 14   | 30       | 52    | 19   | 1,031  | 1,742    | 2,410  | 1,296  | 13.5  | 17.4     | 21.5  | 14.6 |
| 5,001 to 10,000 .....                    | 11   | 17       | 37    | 21   | 1,128  | 1,558    | 2,640  | 1,319  | 9.8   | 10.8     | 14.0  | 15.8 |
| 10,001 to 25,000 .....                   | 22   | 33       | 59    | 28   | 2,094  | 3,317    | 4,746  | 2,338  | 10.4  | 10.0     | 12.5  | 12.1 |
| 25,001 to 50,000 .....                   | 14   | 33       | 48    | 21   | 1,388  | 2,628    | 3,318  | 1,764  | 9.8   | 12.6     | 14.6  | 12.1 |
| 50,001 to 100,000 .....                  | 29   | 32       | 68    | 24   | 2,272  | 2,376    | 4,059  | 1,558  | 12.6  | 13.5     | 16.8  | 15.7 |
| 100,001 to 200,000 .....                 | 28   | 37       | 84    | 22   | 2,238  | 2,475    | 4,105  | 1,353  | 12.4  | 15.1     | 20.5  | 16.6 |
| 200,001 to 500,000 .....                 | 24   | 29       | 42    | 17   | 1,781  | 2,288    | 2,104  | 1,196  | 13.3  | 12.9     | 20.0  | 14.0 |
| Over 500,000 .....                       | 32   | 22       | 61    | 32   | 1,967  | 1,341    | 2,635  | 1,717  | 16.1  | 16.4     | 23.2  | 18.7 |
| <b>Principal Building Activity</b>       |  |          |       |      |  |          |        |        |   |          |       |      |
| Education .....                          | 13   | 20       | 58    | 17   | 1,683  | 2,539    | 3,983  | 1,667  | 7.8   | 8.1      | 14.6  | 10.2 |
| Food Sales .....                         | Q  | 16       | 24    | Q    | Q  | 305      | 484    | Q      | Q   | 52.5     | 50.5  | Q    |
| Food Service .....                       | Q  | 14       | 37    | 8    | Q  | 453      | 764    | 265    | Q   | 29.9     | 48.3  | 31.9 |
| Health Care .....                        | 10   | 18       | 31    | 12   | 535  | 798      | 1,277  | 553    | 19.4  | 23.2     | 24.5  | 22.5 |
| Inpatient .....                          | 8  | 12       | 26    | 7    | 358  | 438      | 838    | 270    | 23.2  | 26.4     | 30.5  | 25.3 |
| Outpatient .....                         | Q  | 7        | 6     | 6    | Q  | 359      | 438    | 283    | Q   | 19.2     | 13.0  | 19.8 |
| Lodging .....                            | 9  | 15       | 29    | 16   | 1,171  | 1,144    | 1,694  | 1,087  | Q   | 13.0     | 17.2  | 14.7 |
| Mercantile .....                         | 30   | 31       | 107   | 47   | 1,720  | 1,904    | 5,094  | 2,473  | 17.6  | 16.2     | 21.0  | 19.0 |
| Retail (Other Than Mall) .....           | 6  | 12       | 29    | 14   | 630  | 880      | 1,844  | 963    | 8.8   | 14.2     | 16.0  | 14.8 |
| Enclosed and Strip Malls .....           | 25   | 18       | 77    | 33   | 1,090  | 1,024    | 3,251  | 1,511  | 22.6  | 18.0     | 23.8  | 21.7 |
| Office .....                             | 50   | 53       | 71    | 36   | 3,012  | 2,989    | 3,782  | 2,425  | 16.5  | 17.9     | 18.8  | 15.0 |
| Public Assembly .....                    | 6  | 11       | 21    | 11   | 1,048  | 1,012    | 1,174  | 701    | Q   | 10.7     | 17.8  | 16.0 |
| Public Order and Safety .....            | Q  | Q        | Q     | Q    | Q  | Q        | Q      | Q      | Q   | Q        | Q     | Q    |
| Religious Worship .....                  | 2  | 5        | 10    | 2    | 627  | 1,115    | 1,498  | 515    | 2.8   | 4.1      | 6.7   | 3.6  |
| Service .....                            | 5  | 14       | 18    | 7    | 731  | 1,259    | 1,335  | 657    | 6.9   | 10.8     | 13.2  | 11.4 |
| Warehouse and Storage .....              | 9  | 27       | 25    | 11   | 1,467  | 2,849    | 3,623  | 1,486  | 5.9   | 9.6      | 6.9   | 7.3  |
| Other .....                              | 15   | 5        | Q     | Q    | 649  | 306      | Q      | Q      | 23.3  | 16.7     | Q     | Q    |
| Vacant .....                             | Q  | Q        | Q     | Q    | Q  | Q        | Q      | Q      | Q   | Q        | Q     | Q    |
| <b>Year Constructed</b>                  |  |          |       |      |  |          |        |        |   |          |       |      |
| Before 1920 .....                        | 11   | 8        | 6     | Q    | 1,395  | 1,535    | 522    | Q      | 7.7   | 5.4      | 10.7  | Q    |
| 1920 to 1945 .....                       | 19   | 23       | 12    | 9    | 2,546  | 1,954    | 1,266  | 942    | 7.4   | 11.8     | 9.7   | 9.4  |
| 1946 to 1959 .....                       | 18   | 18       | 24    | 12   | 2,139  | 2,071    | 1,823  | 1,022  | 8.4   | 8.9      | 13.0  | 12.1 |
| 1960 to 1969 .....                       | 24   | 25       | 37    | 19   | 1,858  | 2,428    | 2,655  | 1,656  | 13.0  | 10.5     | 13.9  | 11.3 |
| 1970 to 1979 .....                       | 31   | 53       | 78    | 39   | 1,916  | 3,543    | 4,198  | 2,401  | 16.4  | 15.0     | 18.6  | 16.3 |
| 1980 to 1989 .....                       | 31   | 39       | 116   | 46   | 1,675  | 2,187    | 5,702  | 2,726  | 18.4  | 17.8     | 20.3  | 16.8 |
| 1990 to 1999 .....                       | 23   | 47       | 128   | 42   | 1,530  | 2,781    | 7,067  | 2,322  | 15.0  | 17.0     | 18.2  | 18.3 |
| 2000 to 2003 .....                       | 16   | 19       | 51    | 16   | 841  | 1,227    | 2,783  | 1,177  | 18.4  | 15.8     | 18.4  | 13.3 |
| <b>Climate Zone: 30-Year Average</b>     |  |          |       |      |  |          |        |        |   |          |       |      |
| Under 2,000 CDD and --                   |  |          |       |      |  |          |        |        |   |          |       |      |
| More than 7,000 HDD .....                | 26   | 68       | N     | 43   | 2,515  | 5,783    | N      | 3,002  | 10.3  | 11.8     | N     | 14.3 |
| 5,500-7,000 HDD .....                    | 73   | 147      | N     | 35   | 5,958  | 10,372   | N      | 2,219  | 12.2  | 14.1     | N     | 15.8 |
| 4,000-5,499 HDD .....                    | 73   | 20       | 86    | 10   | 5,425  | 1,570    | 4,661  | 718    | 13.5  | 12.5     | 18.4  | 14.5 |
| Fewer than 4,000 HDD .....               | N  | N        | 183   | 78   | N  | N        | 11,153 | 5,911  | N   | N        | 16.4  | 13.1 |
| 2,000 CDD or More and --                 |  |          |       |      |  |          |        |        |   |          |       |      |
| Fewer than 4,000 HDD .....               | N  | N        | 183   | 19   | N  | N        | 10,203 | 692    | N   | N        | 17.9  | 27.4 |

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**Table C15A. Electricity Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003**

|  | Total Electricity Consumption<br>(billion kWh) |          |       |      | Total Floorspace of Buildings Using Electricity<br>(million square feet) |          |        |        | Electricity Energy Intensity<br>(kWh/square foot) |          |       |      |
|--|--|----------|-------|------|--|----------|--------|--------|---|----------|-------|------|
|  | North-east                                     | Mid-west | South | West | North-east   | Mid-west | South  | West   | North-east  | Mid-west | South | West |
| <b>All Buildings</b> .....                       | 172  | 234      | 452   | 185  | 13,899   | 17,725   | 26,017 | 12,541 | 12.4  | 13.2     | 17.4  | 14.7 |
| <b>Number of Establishments</b>                  |  |          |       |      |  |          |        |        |   |          |       |      |
| One .....  | 92   | 162      | 265   | 108  | 7,996  | 12,134   | 16,569 | 7,679  | 11.4  | 13.4     | 16.0  | 14.1 |
| 2 to 5 .....                                     | 35   | 41       | 74    | 30   | 2,802  | 3,116    | 4,468  | 2,140  | 12.4  | 13.2     | 16.6  | 14.2 |
| 6 to 10 .....                                    | 14   | 11       | 31    | 11   | 792  | 730      | 1,212  | 624    | 17.7  | 15.0     | 25.6  | 18.1 |
| 11 to 20 .....                                   | 10   | 11       | 32    | 11   | 884  | 552      | 1,342  | 591    | 11.2  | 19.7     | 23.7  | 18.7 |
| More than 20 .....                               | 21   | Q        | 49    | 24   | 1,118  | Q        | 2,094  | 1,396  | 18.9  | Q        | 23.5  | 17.2 |
| Currently Unoccupied .....                       | Q  | Q        | Q     | Q    | Q  | Q        | Q      | Q      | Q   | Q        | Q     | Q    |
| <b>Energy Sources (more than one may apply)</b>  |  |          |       |      |  |          |        |        |   |          |       |      |
| Electricity .....                                | 172  | 234      | 452   | 185  | 13,899   | 17,725   | 26,017 | 12,541 | 12.4  | 13.2     | 17.4  | 14.7 |
| Natural Gas .....                                | 136  | 189      | 286   | 131  | 10,162   | 14,143   | 15,254 | 8,907  | 13.4  | 13.4     | 18.8  | 14.7 |
| Fuel Oil .....                                   | 79   | 52       | 98    | 46   | 6,464  | 2,894    | 4,663  | 2,230  | 12.2  | 17.9     | 21.0  | 20.6 |
| District Heat .....                              | 25   | 28       | 38    | 10   | 1,496  | 1,648    | 1,766  | 667    | 16.8  | 17.2     | 21.3  | 14.8 |
| <b>Energy End Uses (more than one may apply)</b> |  |          |       |      |  |          |        |        |   |          |       |      |
| Buildings with Space Heating .....               | 171  | 233      | 432   | 171  | 13,675   | 17,327   | 23,991 | 11,417 | 12.5  | 13.4     | 18.0  | 15.0 |
| Buildings with Cooling .....                     | 165  | 220      | 448   | 177  | 12,016   | 15,459   | 24,723 | 11,347 | 13.7  | 14.2     | 18.1  | 15.6 |
| Buildings with Water Heating .....               | 168  | 217      | 429   | 176  | 12,875   | 15,850   | 22,859 | 11,227 | 13.0  | 13.7     | 18.8  | 15.7 |
| <b>Annual Consumption (kilowatthours)</b>        |  |          |       |      |  |          |        |        |   |          |       |      |
| 10,000 or Less .....                             | 1  | 1        | 1     | 1    | 752  | 929      | 729    | 451    | 1.1   | 1.1      | 1.7   | 1.8  |
| 10,001 to 50,000 .....                           | 7  | 13       | 17    | 9    | 1,811  | 2,288    | 3,405  | 1,767  | 3.6   | 5.5      | 5.0   | 5.1  |
| 50,001 to 100,000 .....                          | 10   | 12       | 23    | 10   | 1,575  | 1,555    | 2,571  | 1,025  | 6.2   | 7.8      | 8.9   | 9.8  |
| 100,001 to 500,000 .....                         | 30   | 64       | 95    | 49   | 3,118  | 5,105    | 5,976  | 3,423  | 9.7   | 12.5     | 15.9  | 14.4 |
| 500,001 to 1,000,000 .....                       | 16   | 23       | 55    | 16   | 1,435  | 1,874    | 3,064  | 987    | 11.2  | 12.3     | 17.8  | 16.6 |
| 1,000,001 to 5,000,000 .....                     | 53   | 77       | 149   | 54   | 2,827  | 3,897    | 6,043  | 2,835  | 18.8  | 19.7     | 24.6  | 19.2 |
| Over 5,000,000 .....                             | 56   | 45       | 112   | 45   | 2,381  | 2,078    | 4,229  | 2,054  | 23.3  | 21.5     | 26.6  | 22.0 |

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site <http://www.eia.doe.gov/emeu/cbecs>.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample that use electricity.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.