# Buildings Characteristics

## Conservation Tables

(16 pages, 86 kb)

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<thead>
<tr>
<th>CONTENTS</th>
<th>PAGES</th>
</tr>
</thead>
<tbody>
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</tr>
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<td>4</td>
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<tr>
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<td>4</td>
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<tr>
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<td>4</td>
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</tbody>
</table>

These data are from the 1995 Commercial Buildings Energy Consumption Survey (CBECS), a national probability sample survey of commercial buildings sponsored by the Energy Information Administration, that provides information on the use of energy in commercial buildings in the United States. The 1995 CBECS was the sixth survey in a series begun in 1979. The data were collected from a sample of 6,639 buildings representing 4.6 million commercial buildings and 58.8 billion square feet of commercial floorspace in the U.S. The 1995 data are available for the four Census regions and nine Census division.

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**World Wide Web:** [http://www.eia.doe.gov/emeu/consumption](http://www.eia.doe.gov/emeu/consumption)
Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>All Buildings</th>
<th>Any Conservation Features</th>
<th>Building Shell</th>
<th>HVAC</th>
<th>Lighting</th>
<th>All Buildings</th>
<th>Any Conservation Features</th>
<th>Building Shell</th>
<th>HVAC</th>
<th>Lighting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>RSE Column Factor:</td>
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<td>1.1</td>
<td>1.3</td>
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<td>0.8</td>
<td>0.9</td>
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</tr>
</tbody>
</table>

All Buildings ................. 4,579 4,075 3,906 2,529 2,084 58,772 55,288 53,190 44,657 38,537 4.0

Building Floorspace (Square Feet)

1,001 to 5,000 .................. 2,399 2,067 1,991 1,086 881 6,338 6,871 6,344 4,929 3,626 8.4
5,001 to 10,000 ................. 745 676 527 427 358 11,167 10,928 10,491 8,139 6,625 7.6
10,001 to 25,000 ............... 213 195 175 153 140 7,676 7,311 7,021 6,370 4,936 6.2
25,001 to 50,000 ............... 115 109 100 83 74 7,968 7,848 7,530 6,957 5,806 6.4
50,001 to 100,000 ............. 48 44 41 38 34 6,776 6,534 6,370 5,787 5,364 7.6
100,001 to 200,000 .......... 19 18 17 16 15 5,553 5,161 5,161 4,912 4,775 7.5
Over 200,000 .................. 6 6 6 5 5 5,313 5,018 5,005 4,973 4,857 8.8

Principal Building Activity

Education ....................... 309 308 297 241 234 7,740 7,726 7,519 6,918 5,639 9.1
Food Sales ...................... 137 130 129 107 100 6,282 6,260 6,090 5,345 4,374 15.8
Food Service ................... 105 102 102 81 73 642 628 609 435 374 12.6
Health Care ..................... 156 157 156 123 116 3,618 3,600 3,556 3,152 2,535 11.7
Mercantile and Service ....... 1,289 1,123 1,055 638 521 12,726 11,888 11,369 9,109 7,962 8.4
Office .......................... 705 704 696 411 357 10,478 10,463 10,395 8,691 7,922 7.4
Public Assembly ............... 358 341 334 222 211 3,841 3,820 3,682 2,977 2,357 12.3
Public Order and Safety ....... 87 81 80 54 48 1,353 1,305 1,278 1,030 945 12.6
Religious Worship ............. 269 265 262 145 134 2,792 2,745 2,720 2,177 1,709 12.3
Warehouse and Storage ....... 580 408 367 174 191 8,481 7,079 6,261 4,677 4,356 13.3
Other .......................... 67 61 60 46 40 1,004 979 967 852 721 27.2
Vacant ........................ 261 149 148 25 22 2,532 2,532 2,483 2,149 1,564 19.5

Year Constructed

1919 or Before ............... 353 314 296 172 173 3,673 3,470 3,275 2,298 2,328 12.5
1920 to 1945 ................. 562 468 443 296 213 6,710 5,882 5,323 4,266 3,495 10.3
1946 to 1959 ................. 867 788 751 458 390 12,726 11,888 11,369 9,109 7,962 8.4
1960 to 1969 ................. 718 636 590 418 344 10,858 10,188 9,591 8,689 7,246 7.3
1970 to 1979 ................. 813 745 725 446 346 11,333 10,978 10,572 8,671 7,639 6.6
1980 to 1989 ................. 846 757 748 537 421 12,252 11,791 11,607 10,129 8,564 7.3
1990 to 1992 ................. 218 203 196 107 118 2,590 2,532 2,483 2,149 2,023 12.2
1993 to 1995 ................. 202 164 158 95 79 2,059 1,999 1,868 1,665 1,558 15.7

Floors

One ............................ 3,018 2,600 2,475 1,490 1,220 24,552 22,001 20,888 15,942 12,843 5.4
Two ............................ 1,002 940 911 642 498 14,122 13,756 13,317 11,071 9,372 6.1
Three .......................... 399 392 378 271 250 7,335 7,204 6,930 5,908 5,257 10.2
Four to Nine ................... 148 132 129 114 106 8,789 8,451 8,192 7,988 7,443 9.3
Ten or More ................... 12 12 12 11 10 3,975 3,877 3,863 3,748 3,622 11.5

Census Region

Northeast ..................... 725 658 625 493 446 11,883 11,118 10,464 9,854 8,920 9.4
Midwest ....................... 1,139 1,030 974 605 486 14,322 13,733 13,162 10,764 9,495 7.8
South ........................ 1,750 1,529 1,497 895 654 20,830 19,139 18,757 14,904 12,087 6.3
West .......................... 964 858 809 536 498 11,736 11,297 10,806 9,135 8,036 8.5

See footnotes at end of table.
Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995 (Continued)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Number of Buildings (thousand)</th>
<th>Total Floorspace (million square feet)</th>
<th>RSE Row Factor</th>
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<tr>
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<td>HVAC</td>
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<tr>
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<td>Any Conservation Features</td>
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<td></td>
<td>Light- ing</td>
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<tr>
<td>Workers (main shift)</td>
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<tr>
<td>Fewer than 5</td>
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<td>1,956</td>
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<td>5 to 9</td>
<td>798</td>
<td>731</td>
<td>496</td>
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<tr>
<td>10 to 19</td>
<td>625</td>
<td>598</td>
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<td>20 to 49</td>
<td>400</td>
<td>378</td>
<td>339</td>
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<td>50 to 99</td>
<td>138</td>
<td>130</td>
<td>114</td>
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<tr>
<td>100 to 249</td>
<td>71</td>
<td>70</td>
<td>67</td>
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<tr>
<td>250 or More</td>
<td>43</td>
<td>43</td>
<td>42</td>
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Ownership and Occupancy

| Nongovernment Owned       | 4,025                          | 3,437                                   | 2,133          | 1,768 46,966 43,720 42,074 34,095 29,737 4.4 |
| Owner Occupied           | 3,158                          | 2,762                                   | 1,481          | 35,753 32,842 32,739 26,731 24,062 4.7 |
| Nonowner Occupied        | 698                            | 595                                     | 390            | 9,697 9,172 8,630 7,253 5,625 8.8 |
| Government Owned         | 553                            | 469                                     | 396            | 12,076 11,569 11,116 10,562 8,800 6.4 |

Energy Sources (more than one may apply)

| Electricity              | 4,343                          | 3,833                                   | 2,521          | 2,084 57,076 54,617 52,520 44,490 38,537 3.9 |
| Natural Gas              | 2,478                          | 2,267                                   | 1,266          | 39,145 37,383 36,114 31,011 27,217 4.5 |
| Fuel Oil                 | 607                            | 540                                     | 443            | 14,421 14,250 13,875 13,335 12,321 9.0 |
| District Heat            | 110                            | 107                                     | 91             | 5,658 5,638 5,502 5,398 4,583 13.2 |
| District Chilled Water   | 53                             | 53                                      | 48             | 2,521 2,521 2,501 2,446 1,943 17.3 |
| Propane                  | 589                            | 561                                     | 398            | 5,344 5,281 5,122 4,397 3,736 12.9 |
| Other                    | 213                            | 181                                     | 105            | 2,336 2,092 2,014 1,784 1,540 17.4 |

Energy End Uses (more than one may apply)

| Buildings with Space Heating | 4,024                          | 3,703                                   | 2,515          | 1,996 54,347 53,148 51,383 44,317 37,504 4.1 |
| Buildings with Cooling      | 3,381                          | 3,192                                   | 2,227          | 1,692 49,935 49,016 47,666 41,648 35,010 3.9 |
| Buildings with Water Heating | 3,486                          | 3,273                                   | 2,924          | 1,816 51,560 50,745 49,132 42,925 36,656 4.1 |
| Buildings with Cooking      | 828                            | 783                                     | 594            | 472 20,713 20,570 20,126 18,590 16,728 5.1 |
| Buildings with Manufacturing | 204                             | 186                                     | 120           | 108 3,932 3,812 3,695 2,901 2,688 13.8 |
| Buildings with Electricity Generation | 247                             | 243                                     | 210           | 193 13,366 13,365 13,232 12,961 12,229 8.4 |

Percent of Floorspace Heated

| Not Heated                | 554                            | 236                                     | 14             | 88 4,425 2,140 1,807 340 1,033 19.8 |
| 51 to 99                  | 633                            | 573                                     | 373            | 384 8,868 7,843 8,471 7,059 6,907 9.3 |
| 100                       | 2,836                          | 2,687                                   | 1,864          | 1,378 39,252 38,850 37,903 33,614 27,526 4.1 |

Percent of Floorspace Cooled

| Not Cooled               | 1,198                          | 713                                     | 302            | 391 8,837 6,272 5,525 3,009 3,527 12.2 |
| 1 to 50                  | 930                            | 843                                     | 535            | 471 15,027 14,387 13,623 10,981 9,578 7.9 |
| 51 to 99                 | 635                            | 611                                     | 456            | 376 12,549 12,502 12,314 11,343 10,329 7.4 |
| 100                      | 1,816                          | 1,737                                   | 1,236          | 845 22,359 22,128 21,729 19,324 15,103 5.0 |

See footnotes at end of table.
Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995 (Continued)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Number of Buildings (thousand)</th>
<th>Total Floorspace (million square feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Buildings</td>
<td>Any Conservation Features</td>
</tr>
<tr>
<td>RSE Column Factor:</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>Heating Equipment (more than one may apply)</td>
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<tr>
<td>Heat Pumps</td>
<td>394</td>
<td>394</td>
</tr>
<tr>
<td>Individual Space Heaters</td>
<td>1,188</td>
<td>1,102</td>
</tr>
<tr>
<td>District Heat</td>
<td>115</td>
<td>114</td>
</tr>
<tr>
<td>Boilers</td>
<td>610</td>
<td>607</td>
</tr>
<tr>
<td>Packaged Heating Units</td>
<td>1,031</td>
<td>1,002</td>
</tr>
<tr>
<td>Other</td>
<td>161</td>
<td>160</td>
</tr>
</tbody>
</table>

Cooling Equipment (more than one may apply) |                      |                          |               |      |          |               |                          |               |      |          |

Residential-Type Central |                      |                          |               |      |          |               |                          |               |      |          |
| Air Conditioners        | 878             | 866                       | 853            | 569  | 424      | 9,238         | 9,154                     | 8,885         | 7,205| 6,175    |
| Heat Pumps              | 457             | 456                       | 449            | 340  | 240      | 6,931         | 6,902                     | 6,832         | 6,077| 4,843    |
| Individual Air Conditioners | 862         | 825                       | 796            | 487  | 379      | 12,494        | 12,148                    | 11,642        | 9,823| 8,620    |
| District Chilled Water  | 53             | 53                        | 53             | 48   | 25       | 2,521         | 2,521                     | 2,501         | 2,446| 1,943    |
| Central Chillers        | 109            | 109                       | 108            | 105  | 89       | 11,065        | 11,061                    | 10,973        | 10,879| 10,160   |
| Packaged Air Conditioning Units | 1,431    | 1,381                      | 1,346          | 1,040| 804      | 26,628        | 26,208                    | 25,606        | 23,086| 19,779   |

Swamp Coolers           | 186            | 184                       | 170            | 128  | 87       | 2,451         | 2,379                     | 2,324         | 2,122| 1,468    |
| Other                   | 18             | 18                        | 17             | 15   | 13       | 949           | 948                       | 945           | 902  | 846      |

Lighting Equipment Types (more than one may apply) |                      |                          |               |      |          |               |                          |               |      |          |

Incandescent            | 2,479          | 2,306                     | 2,234          | 1,516| 1,225    | 35,715        | 34,451                    | 33,382        | 29,008| 25,823   |
| Standard Fluorescent   | 3,885          | 3,665                     | 3,521          | 2,380| 1,991    | 53,964        | 52,412                    | 50,521        | 43,403| 37,682   |
| Compact Fluorescent    | 364            | 363                       | 359            | 295  | 270      | 14,273        | 14,145                    | 13,934        | 13,499| 12,965   |
| High-Intensity Discharge | 393          | 385                       | 365            | 311  | 312      | 16,259        | 16,153                    | 15,532        | 14,969| 14,692   |
| Halogen                | 302            | 301                       | 298            | 224  | 199      | 9,665         | 9,654                     | 9,544         | 8,903| 8,813    |
| Other                   | 30             | 17                        | Q              | Q    | Q        | 554           | 517                       | 512           | 415  | 499      |

Water-Heating Equipment (more than one may apply) |                      |                          |               |      |          |               |                          |               |      |          |

Centralized System      | 2,671          | 2,575                     | 2,489          | 1,696| 1,339    | 31,656        | 31,012                    | 29,845        | 25,459| 21,456   |
| Distributed System     | 742            | 733                       | 711            | 538  | 420      | 16,495        | 16,324                    | 15,902        | 14,261| 12,124   |

Combination of Centralized and Distributed System | 73             | 73                        | 73             | 60   | 57       | 3,409         | 3,409                     | 3,384         | 3,205| 3,076    |

See footnotes at end of table.
Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995 (Continued)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Number of Buildings (thousand)</th>
<th>Total Floorspace (million square feet)</th>
<th>RSE Column Factor:</th>
<th>RSE Row Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Buildings</td>
<td>Any Conservation Features</td>
<td>Building Shell</td>
<td>HVAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RSE Row Factor:</td>
<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
<td>1.3</td>
</tr>
</tbody>
</table>

Building Shell Conservation Features (more than one may apply)
- Roof or Ceiling Insulation .............. 3,380 3,380 3,380 2,215 1,759 46,355 46,355 46,355 38,639 32,858 4.4
- Wall Insulation ........................................ 2,372 2,372 2,372 1,637 1,289 28,876 28,876 28,876 25,087 21,493 4.9
- Storm or Multiple Glazing .................... 1,897 1,897 1,897 1,323 1,043 24,245 24,245 24,245 21,789 19,123 5.0
- Tinted, Reflective or Shading Glass ............ 1,202 1,202 1,202 856 651 37,208 37,208 37,208 31,845 27,125 4.5
- Exterior or Interior Shading or Awnings ........... 2,271 2,271 2,271 1,543 1,226 31,458 31,458 31,458 26,952 22,975 4.3

HVAC Conservation Features (more than one may apply)
- Variable Air-Volume System .................. 327 327 324 256 13,473 13,473 13,373 13,473 12,220 8.1
- Economizer Cycle ................................. 461 461 452 335 16,550 16,550 16,419 16,550 14,482 6.6
- HVAC Maintenance ................................. 2,403 2,403 2,319 1,487 43,134 43,134 41,849 43,134 32,859 4.4
- Other Energy Efficient Equipment ............... 198 198 194 139 6,453 6,453 6,394 6,453 5,677 10.8

Lighting Conservation Features (more than one may apply)
- Specular Reflectors .......................... 749 749 701 749 17,868 17,868 17,155 17,868 16,167 17,868 6.6
- Energy-Efficient Ballasts .................... 1,363 1,363 1,283 1,054 1,363 28,375 28,375 27,430 25,806 28,375 5.5
- Natural Lighting Control Senses ............... 237 237 228 237 6,431 6,431 6,296 6,431 6,062 6,431 10.4
- Occupancy Sensors ............................... 131 131 130 112 131 5,958 5,958 5,723 5,958 5,958 12.5
- Time Clock ................................. 467 467 448 467 13,262 13,262 12,966 13,262 12,463 13,262 7.9
- Manual Dimmer Switches ..................... 501 501 491 501 13,056 13,056 12,899 13,056 12,052 13,056 6.4
- Other ............................................. 79 79 73 67 79 2,836 2,836 2,755 2,836 2,836 16.2

Energy Conservation Features (more than one may apply)
- Any Conservation Features ................ 4,075 4,075 3,906 2,529 2,084 55,288 55,288 53,190 44,657 38,537 4.0
- Building Shell .................................. 3,906 3,906 3,906 2,443 1,963 53,190 53,190 53,190 43,329 36,922 4.0
- HVAC ............................................ 2,529 2,529 2,443 2,529 1,555 44,657 44,657 43,329 44,657 33,875 4.3
- Lighting ........................................ 2,084 2,084 1,963 2,084 38,537 38,537 36,922 38,537 33,875 4.5

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

Notes: · To obtain the RSE percentage for any table cell, multiply the cell’s corresponding RSE column and RSE row factors. · See Glossary for explanation of abbreviations and definitions of terms used in this report.

Table 42. Building Shell Conservation Features, Number of Buildings, 1995 (Thousand)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>All Buildings</th>
<th>Any Building Shell Conservation Features</th>
<th>Roof or Ceiling Insulation</th>
<th>Wall Insulation</th>
<th>Storms or Multiple Glazing</th>
<th>Tinted, Reflective or Shading Glass</th>
<th>Exterior or Interior Shadings or Awnings</th>
<th>RSE Column Factor:</th>
<th>RSE Row Factor</th>
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<tr>
<td></td>
<td>4,579</td>
<td>3,906</td>
<td>3,380</td>
<td>2,372</td>
<td>1,897</td>
<td>1,202</td>
<td>2,271</td>
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**Building Floorspace (Square Feet)**

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<tr>
<th></th>
<th>1,001 to 5,000</th>
<th>5,001 to 10,000</th>
<th>10,001 to 20,000</th>
<th>20,001 to 50,000</th>
<th>50,001 to 100,000</th>
<th>Over 100,000</th>
<th>All Buildings</th>
<th>RSE Column Factor:</th>
<th>RSE Row Factor</th>
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<tbody>
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<td>2,399</td>
<td>1,991</td>
<td>1,718</td>
<td>1,238</td>
<td>909</td>
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<td>12</td>
<td>148</td>
<td>0.8</td>
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**Principal Building Activity**

|                      | 309            | 297             | 236              | 145              | 96               | 99           | 219           | 0.9             | 12.0           |
|                      | 137            | 129             | 128              | 77               | 44               | 54           | 52            | 1.0             | 20.1           |
|                      | 285            | 259             | 216              | 173              | 129              | 89           | 131           | 1.0             | 13.2           |
|                      | 105            | 102             | 91               | 65               | 54               | 31           | 80            | 1.0             | 20.1           |
|                      | 158            | 156             | 134              | 103              | 82               | 22           | 102           | 1.0             | 14.9           |
|                      | 1,289          | 1,055           | 910              | 607              | 483              | 285          | 529           | 1.0             | 10.3           |
|                      | 705            | 696             | 634              | 519              | 454              | 310          | 561           | 1.0             | 8.8            |
|                      | 326            | 294             | 275              | 180              | 142              | 73           | 164           | 1.0             | 16.6           |
|                      | 87             | 80              | 77               | 56               | 50               | 8            | 43            | 1.0             | 28.4           |
|                      | 269            | 263             | 229              | 163              | 160              | 111          | 136           | 1.0             | 15.3           |
|                      | 580            | 567             | 506              | 391              | 328              | 201          | 372           | 1.0             | 17.9           |
|                      | 67             | 60              | 58               | 40               | 38               | 18           | 38            | 1.0             | 36.8           |
|                      | 261            | 148             | 86               | 54               | 45               | 17           | 67            | 1.0             | 20.9           |

**Year Constructed**

|                      | 353            | 296             | 220              | 112              | 190              | 49           | 202           | 0.9             | 15.7           |
|                      | 562            | 443             | 325              | 196              | 202              | 102          | 242           | 1.0             | 14.5           |
|                      | 867            | 751             | 632              | 373              | 368              | 197          | 441           | 1.0             | 9.0            |
|                      | 718            | 590             | 527              | 321              | 319              | 140          | 333           | 1.0             | 9.9            |
|                      | 813            | 725             | 673              | 476              | 297              | 256          | 418           | 1.0             | 8.5            |
|                      | 846            | 748             | 688              | 603              | 420              | 328          | 440           | 1.0             | 8.9            |
|                      | 218            | 196             | 176              | 165              | 126              | 84           | 109           | 1.0             | 16.3           |
|                      | 202            | 158             | 139              | 125              | 104              | 46           | 85            | 1.0             | 22.0           |

**Floors**

|                      | 3,018          | 2,475           | 2,169            | 1,521            | 1,017           | 780          | 1,292         | 0.9             | 6.3            |
|                      | 1,002          | 911             | 801              | 583              | 512             | 278          | 575           | 1.0             | 7.7            |
|                      | 399            | 378             | 301              | 194              | 268             | 81           | 286          | 1.2             | 12.5           |
|                      | 148            | 129             | 101              | 67               | 93               | 55           | 107          | 1.0             | 14.3           |
|                      | 12             | 12              | 9                | 7                | 7                | 8           | 10           | 1.0             | 12.5           |

**Census Region**

|                      | 725            | 625             | 552              | 391              | 407             | 109          | 331           | 0.8             | 13.2           |
|                      | 1,139          | 974             | 848              | 605              | 675             | 268          | 499           | 0.9             | 10.3           |
|                      | 1,750          | 1,497           | 1,343            | 955              | 541             | 472          | 890           | 1.0             | 6.9            |
|                      | 964            | 809             | 637              | 421              | 273             | 353          | 551           | 1.0             | 11.2           |

See footnotes at end of table.
Table 42. Building Shell Conservation Features, Number of Buildings, 1995
(Continued)
(Thousand)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Types of Building Shell Conservation Features (more than one may apply)</th>
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<tbody>
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<td>50 to 99</td>
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<td>100 to 249</td>
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<td>250 or More</td>
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<td>Weekly Operating Hours</td>
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<td>39 or Fewer</td>
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<td>61 to 84</td>
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<td>85 to 167</td>
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<tr>
<td>Propane</td>
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<td>District Chilled Water</td>
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See footnotes at end of table.
Table 42. Building Shell Conservation Features, Number of Buildings, 1995 (Continued) (Thousand)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>All Buildings</th>
<th>Any Building Shell Conservation Features</th>
<th>Roof or Ceiling Insulation</th>
<th>Wall Insulation</th>
<th>Storms or Multiple Glazing</th>
<th>Tinted, Reflective or Shading Glass</th>
<th>Exterior or Interior Shadings or Awnings</th>
<th>RSE Column Factor:</th>
<th>RSE Row Factor</th>
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<td>Row Factor</td>
<td>RSE</td>
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<td>1.1</td>
<td>1.3</td>
<td>1.0</td>
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</tr>
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</table>

**Water-Heating Energy Sources** (more than one may apply)

- **Electricity**  
  - 1,684  
  - 1,578  
  - 1,439  
  - 1,112  
  - 849  
  - 564  
  - 1,031  
  - 7.4
- **Natural Gas**  
  - 1,577  
  - 1,482  
  - 1,242  
  - 814  
  - 717  
  - 501  
  - 899  
  - 7.5
- **Fuel Oil**  
  - 120  
  - 118  
  - 105  
  - 74  
  - 84  
  - 17  
  - 62  
  - 30.5
- **District Heat**  
  - 54  
  - 52  
  - 48  
  - 35  
  - 22  
  - 21  
  - 32  
  - 18.8
- **Propane**  
  - 110  
  - 103  
  - 98  
  - 58  
  - 16  
  - 63  
  - 27.2

**Cooking Energy Sources** (more than one may apply)

- **Electricity**  
  - 487  
  - 464  
  - 414  
  - 317  
  - 248  
  - 172  
  - 285  
  - 10.9
- **Natural Gas**  
  - 448  
  - 427  
  - 361  
  - 236  
  - 192  
  - 153  
  - 278  
  - 9.6
- **Propane**  
  - 123  
  - 108  
  - 96  
  - 83  
  - 71  
  - 28  
  - 56  
  - 25.9

**Energy End Uses (more than one may apply)**

- **Buildings with Space Heating**  
  - 4,024  
  - 3,703  
  - 3,226  
  - 2,315  
  - 1,853  
  - 1,717  
  - 2,234  
  - 4.9
- **Buildings with Cooling**  
  - 3,381  
  - 3,192  
  - 2,805  
  - 2,057  
  - 1,619  
  - 1,104  
  - 2,049  
  - 4.5
- **Buildings with Water Heating**  
  - 3,486  
  - 3,273  
  - 2,981  
  - 2,043  
  - 1,698  
  - 1,086  
  - 2,037  
  - 5.1
- **Buildings with Cooking**  
  - 828  
  - 783  
  - 671  
  - 483  
  - 390  
  - 276  
  - 499  
  - 7.1
- **Buildings with Manufacturing**  
  - 204  
  - 186  
  - 157  
  - 126  
  - 80  
  - 42  
  - 108  
  - 19.7
- **Buildings with Electricity Generation**  
  - 247  
  - 243  
  - 222  
  - 151  
  - 148  
  - 87  
  - 178  
  - 13.7

**Percent of Floorspace Heated**

- **Not Heated**  
  - 554  
  - 203  
  - 155  
  - 57  
  - 44  
  - 31  
  - 37  
  - 23.1
- **1 to 50**  
  - 555  
  - 443  
  - 350  
  - 232  
  - 168  
  - 134  
  - 266  
  - 14.9
- **51 to 99**  
  - 633  
  - 573  
  - 497  
  - 391  
  - 318  
  - 211  
  - 392  
  - 10.8
- **100**  
  - 2,836  
  - 2,687  
  - 2,379  
  - 1,693  
  - 1,367  
  - 826  
  - 1,576  
  - 5.0

**Percent of Floorspace Cooled**

- **Not Cooled**  
  - 1,198  
  - 713  
  - 576  
  - 315  
  - 278  
  - 98  
  - 223  
  - 16.1
- **1 to 50**  
  - 930  
  - 843  
  - 703  
  - 448  
  - 418  
  - 237  
  - 521  
  - 10.3
- **51 to 99**  
  - 635  
  - 611  
  - 537  
  - 405  
  - 362  
  - 240  
  - 436  
  - 10.1
- **100**  
  - 1,816  
  - 1,737  
  - 1,565  
  - 1,204  
  - 839  
  - 627  
  - 1,092  
  - 5.5

**Percent Lit when Open**

- **Zero**  
  - 36  
  - Q  
  - Q  
  - Q  
  - Q  
  - Q  
  - 46.9
- **1 to 50**  
  - 666  
  - 548  
  - 443  
  - 315  
  - 287  
  - 183  
  - 330  
  - 11.4
- **51 to 99**  
  - 745  
  - 697  
  - 614  
  - 439  
  - 329  
  - 231  
  - 457  
  - 12.3
- **100**  
  - 2,814  
  - 2,516  
  - 2,226  
  - 1,560  
  - 1,236  
  - 774  
  - 1,445  
  - 5.8

**Building Not in Use/ Electricity Not Used**

- 318  
  - 136  
  - 90  
  - 56  
  - 43  
  - 7  
  - 39  
  - 23.9

See footnotes at end of table.
### Table 42. Building Shell Conservation Features, Number of Buildings, 1995
(Continued)
(Thousand)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Types of Building Shell Conservation Features (more than one may apply)</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Percent Lit when Closed</td>
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<tr>
<td>1 to 50</td>
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<td>461</td>
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<td>2,403</td>
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## Table 43. Building Shell Conservation Features, Floorspace, 1995
(Million Square Feet)

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<th>Any Building Shell Conservation Features</th>
<th>Roof or Ceiling Insulation</th>
<th>Wall Insulation</th>
<th>Storms or Multiple Glazing</th>
<th>Tinted, Reflective or Shading Glass</th>
<th>Exterior or Interior Shades or Awnings</th>
<th>RSE Row Factor</th>
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<td>Types of Building Shell Conservation Features (more than one may apply)</td>
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<td></td>
<td></td>
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<tr>
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<td>All Buildings</td>
<td>58,772</td>
<td>53,190</td>
<td>46,355</td>
<td>31,694</td>
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<td>24,205</td>
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<td></td>
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<td>1970 to 1979</td>
<td>11,333</td>
<td>10,572</td>
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<td>6,740</td>
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<tr>
<td></td>
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<td>1980 to 1989</td>
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<td>11,607</td>
<td>10,589</td>
<td>9,116</td>
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<td>2,483</td>
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<td>Floors</td>
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<td>12,718</td>
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<td>3,775</td>
<td>4,652</td>
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<td></td>
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<td>13,162</td>
<td>11,620</td>
<td>8,467</td>
<td>9,464</td>
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See footnotes at end of table.
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<th>Building Characteristics</th>
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<th>Any Building Shell Conservation Features (more than one may apply)</th>
<th>RSE Row Factor</th>
</tr>
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<td>Roof or Ceiling Insulation</td>
<td>Wall Insulation</td>
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<td>Workers (main shift)</td>
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<td>7,531</td>
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<td>4,482</td>
<td>3,616</td>
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<td>11,977</td>
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<td>49 to 60</td>
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<td>11,170</td>
<td>9,621</td>
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<td>61 to 84</td>
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<td>9,590</td>
<td>8,510</td>
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<td>10,411</td>
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<td>42,074</td>
<td>36,498</td>
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<td>32,739</td>
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<td>439</td>
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<td>Government Owned</td>
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<td>9,856</td>
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<td>Energy Sources (more than one may apply)</td>
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<td></td>
</tr>
<tr>
<td>Electricity</td>
<td>57,076</td>
<td>52,520</td>
<td>45,886</td>
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<tr>
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<td>38,145</td>
<td>36,114</td>
<td>31,323</td>
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<tr>
<td>Fuel Oil</td>
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<td>13,875</td>
<td>12,325</td>
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<td>2,501</td>
<td>2,215</td>
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<tr>
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<td>5,122</td>
<td>4,474</td>
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<td>Energy Source</td>
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<td>11,636</td>
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<td>3,164</td>
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<tr>
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<td>5,132</td>
<td>4,484</td>
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<tr>
<td>Propane</td>
<td>1,545</td>
<td>1,497</td>
<td>1,272</td>
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<tr>
<td>Other</td>
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<td>441</td>
<td>321</td>
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<tr>
<td>Cooling Energy Sources (more than one may apply)</td>
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<td>40,331</td>
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<td>1,314</td>
<td>1,301</td>
<td>1,088</td>
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<tr>
<td>District Chilled Water</td>
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<td>2,501</td>
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</table>

See footnotes at end of table.
Table 43. Building Shell Conservation Features, Floorspace, 1995 (Continued)

(Million Square Feet)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>All Buildings</th>
<th>Any Building Shell Conservation Features</th>
<th>Roof or Ceiling Insulation</th>
<th>Wall Insulation</th>
<th>Storms or Multiple Glazing</th>
<th>Tinted, Reflective or Shading Glass</th>
<th>Exterior or Interior Shadings or Awnings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All</td>
<td>RSE Column Factor:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>All</td>
<td>0.9</td>
<td>0.9</td>
<td>1.0</td>
<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
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</table>

Water-Heating Energy Sources
(more than one may apply)

<table>
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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>23,056</td>
<td>24,859</td>
<td>12,249</td>
<td>1,480</td>
<td>13,366</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>21,832</td>
<td>23,753</td>
<td>12,003</td>
<td>1,358</td>
<td>12,003</td>
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<tr>
<td>Fuel Oil</td>
<td>19,830</td>
<td>20,307</td>
<td>11,257</td>
<td>1,142</td>
<td>11,939</td>
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<tr>
<td>Propane</td>
<td>14,748</td>
<td>13,431</td>
<td>7,552</td>
<td>986</td>
<td>8,557</td>
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<td></td>
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</tbody>
</table>

Cooking Energy Sources
(more than one may apply)

<table>
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<tr>
<th>Energy Source</th>
<th>Buildings with Cooking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>12,249</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>13,195</td>
</tr>
<tr>
<td>Propane</td>
<td>1,480</td>
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</table>

Energy End Uses (more than one may apply)

<table>
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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heated</td>
<td>54,347</td>
<td>51,383</td>
<td>44,941</td>
<td>13,366</td>
</tr>
<tr>
<td>Not Heated</td>
<td>4,425</td>
<td>4,935</td>
<td>4,494</td>
<td>1,358</td>
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</table>

Percent of Floorspace Heated

<table>
<thead>
<tr>
<th>Floorspace</th>
<th>Heated</th>
<th>Not Heated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4,425</td>
<td>3,500</td>
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</tbody>
</table>

Percent of Floorspace Cooled

<table>
<thead>
<tr>
<th>Floorspace</th>
<th>Cooled</th>
<th>Not Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8,837</td>
<td>5,525</td>
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Percent Lit when Open

<table>
<thead>
<tr>
<th>Lighting Condition</th>
<th>Electricity</th>
<th>Building Not in Use/ Electricity Not Used</th>
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<tbody>
<tr>
<td>Zero</td>
<td>189</td>
<td>2,369</td>
</tr>
<tr>
<td>1 to 50</td>
<td>6,008</td>
<td>40,514</td>
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</table>

See footnotes at end of table.
### Table 43. Building Shell Conservation Features, Floorspace, 1995 (Continued)
(Million Square Feet)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Types of Building Shell Conservation Features (more than one may apply)</th>
<th>RSE Row Factor</th>
</tr>
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<td>All Buildings</td>
<td>Any Building Shell Conservation Features</td>
</tr>
<tr>
<td>RSE Column Factor:</td>
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</tr>
<tr>
<td>All Buildings</td>
<td>0.9</td>
<td>0.9</td>
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**Building Shell Conservation Features (more than one may apply)**
- Roof or Ceiling Insulation .............. 46,355
- Wall Insulation .............................. 31,694
- Storm or Multiple Glazing ............. 28,876
- Tinted, Reflective or Shading Glass .......... 24,245
- Exterior or Interior Shading or Awnings ..................... 37,208

**HVAC Conservation Features (more than one may apply)**
- Variable Air-Volume System ............. 13,473
- Economizer Cycle ............................ 16,550
- HVAC Maintenance ........................... 43,134
- Other Energy Efficient Equipment ........... 6,453

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

Notes: · To obtain the RSE percentage for any table cell, multiply the cell’s corresponding RSE column and RSE row factors. · See Glossary for explanation of abbreviations and definitions of terms used in this report.

Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Number of Buildings (thousand)</th>
<th>Total Floorspace (million square feet)</th>
<th>Off-Hour Equipment Reduction (more than one may apply)</th>
<th>Off-Hour Equipment Reduction (more than one may apply)</th>
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<tbody>
<tr>
<td></td>
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<td>All Buildings</td>
<td>All Buildings</td>
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<tr>
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<td></td>
<td></td>
<td>Heating</td>
<td>Cooling</td>
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<td></td>
<td></td>
<td></td>
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<td>Heating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lighting</td>
<td>Lighting</td>
</tr>
<tr>
<td>Building Floorspace (Square Feet)</td>
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<td>RSE 1.2</td>
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<td>1,707</td>
<td>1,353</td>
<td>6,338</td>
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<td>715</td>
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<td>25,001 to 50,000</td>
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<td>143</td>
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<td>Public Order and Safety</td>
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<td>Warehouse and Storage</td>
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<td>1946 to 1959</td>
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</tr>
<tr>
<td>Floors</td>
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<td>RSE 1.2</td>
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See footnotes at end of table.
Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995 (Continued)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>All Buildings</th>
<th>Heating</th>
<th>Cooling</th>
<th>Lighting</th>
<th>Off-Hour Equipment Reduction (more than one may apply)</th>
<th>All Buildings</th>
<th>Heating</th>
<th>Cooling</th>
<th>Lighting</th>
<th>Off-Hour Equipment Reduction (more than one may apply)</th>
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<td>1.0</td>
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</table>

Workers (main shift)

Fewer than 5 ........................................ 2,505 1,590 1,219 1,890 13,885 8,134 6,484 9,874 7.0
5 to 9 ............................................. 798 640 570 735 6,292 4,759 4,270 5,472 9.2
10 to 19 ......................................... 625 527 480 573 7,102 5,562 5,250 6,277 8.1
20 to 49 ......................................... 400 279 265 351 9,132 6,343 6,013 7,631 7.7
50 to 99 ......................................... 138 98 98 118 6,931 4,582 4,316 5,493 8.5
100 to 249 ...................................... 71 47 48 55 5,988 3,893 3,971 4,499 8.2
250 or More ..................................... 43 29 28 32 9,443 5,054 5,301 5,690 12.6

Weekly Operating Hours

39 or Fewer .................................... 899 517 343 654 6,134 3,340 2,448 4,123 10.3
40 to 48 ......................................... 1,257 1,093 954 1,229 13,233 11,083 10,156 12,953 6.6
49 to 60 ......................................... 969 824 725 924 12,242 10,592 10,068 11,939 7.2
61 to 84 ......................................... 567 474 396 555 10,052 8,293 8,063 9,951 8.0
85 to 167 ....................................... 420 303 286 391 6,202 5,017 4,871 5,970 7.9
Open Continuously .......................... 466 -- -- -- 10,908 -- -- -- 8.6

Ownership and Occupancy

Owner Occupied .......................... 3,158 2,292 1,932 2,669 35,573 22,943 21,348 27,042 4.7
Nonowner Occupied .................... 698 539 498 630 9,697 7,235 7,017 8,557 8.8
Unoccupied .................................. 170 Q Q Q 1,426 Q Q Q 22.4
Government Owned .................... 553 365 269 446 12,076 8,059 7,168 9,262 7.2

Energy Sources (more than one may apply)

Electricity ...................................... 4,343 3,200 2,706 3,753 57,076 38,172 35,500 44,937 4.0
Natural Gas .................................... 2,478 1,973 1,729 2,165 38,145 25,496 24,583 29,458 4.7
Fuel Oil ......................................... 607 467 280 508 14,421 8,558 7,639 9,550 9.8
District Heat .................................. 110 62 48 77 5,658 2,748 2,610 3,308 15.8
Propane ........................................ 53 38 38 41 2,521 1,454 1,482 1,595 21.3
Other ............................................. 589 470 337 507 5,344 4,049 3,317 4,362 13.6

Primary Space-Heating Energy Source

Electricity ...................................... 1,007 755 687 862 13,500 9,286 9,182 10,936 8.9
Natural Gas .................................... 2,106 1,732 1,530 1,884 28,808 21,051 19,368 23,170 15.0
Fuel Oil ......................................... 439 355 201 381 4,207 3,292 3,205 3,484 14.1
District Heat .................................. 107 60 56 75 5,289 2,619 2,464 3,160 16.1
Propane ........................................ 260 219 142 229 1,545 1,341 982 1,378 19.2
Other ............................................. 61 54 Q 55 514 462 Q 474 30.2

Cooling Energy Sources (more than one may apply)

Electricity ...................................... 3,293 2,566 2,642 2,898 47,761 33,066 34,193 37,851 4.0
Natural Gas .................................... 65 57 58 59 1,314 763 794 865 21.5
District Chilled Water .................... 53 38 38 41 2,521 1,454 1,482 1,595 21.3

See footnotes at end of table.
Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995 (Continued)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>All Buildings</th>
<th>Heating</th>
<th>Cooling</th>
<th>Lighting</th>
<th>All Buildings</th>
<th>Heating</th>
<th>Cooling</th>
<th>Lighting</th>
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<tr>
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<td>189</td>
<td>Q</td>
<td>Q</td>
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<tr>
<td><strong>Percent Lit when Closed</strong></td>
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<td>Q</td>
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<td>Heat Pumps</td>
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<td>286</td>
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<td>711</td>
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<td>16,809</td>
<td>11,642</td>
<td>10,422</td>
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<td>65</td>
<td>61</td>
<td>81</td>
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<td>433</td>
<td>333</td>
<td>484</td>
<td>16,754</td>
<td>11,739</td>
<td>11,649</td>
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<td>Packaged Heating Units</td>
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<td>807</td>
<td>904</td>
<td>16,893</td>
<td>11,739</td>
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<td>13,279</td>
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<td>Other</td>
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<td>4,135</td>
<td>3,906</td>
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</table>

See footnotes at end of table.
Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995 (Continued)

<table>
<thead>
<tr>
<th>Building Characteristics</th>
<th>Number of Buildings (thousand)</th>
<th>Total Floorspace (million square feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Off-Hour Equipment Reduction (more than one may apply)</td>
<td>Off-Hour Equipment Reduction (more than one may apply)</td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>Cooling</td>
</tr>
<tr>
<td>RSE Column Factor:</td>
<td>1.0</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Cooling Equipment (more than one may apply)
- Residential-Type Central
  - Air Conditioners: 878 708 720 790 9,238 6,403 6,598 7,189 7.2
  - Heat Pumps: 457 330 330 392 6,931 4,277 4,372 5,115 7.9
  - Individual Air Conditioners: 862 648 690 726 12,494 7,812 8,204 8,828 7.1
  - District Chilled Water: 53 38 38 41 2,521 1,454 1,482 1,595 21.3
  - Central Chillers: 109 66 68 79 11,065 6,226 6,477 7,092 9.5
- Packaged Air Conditioning Units: 1,431 1,122 1,152 1,244 26,628 18,360 18,870 20,799 5.6
- Swamp Coolers: 186 153 154 165 2,451 1,569 1,599 1,706 20.9
- Other: 18 13 13 12 949 612 602 601 19.6

Lighting Equipment Types (more than one may apply)
- Incandescent: 2,479 1,886 1,674 2,160 35,715 23,405 22,292 27,345 4.5
- Standard Fluorescent: 3,885 2,987 2,546 3,464 53,984 37,086 34,745 43,074 4.0
- Compact Fluorescent: 364 253 248 289 14,273 8,648 8,639 9,705 9.2
- High-Intensity Discharge: 393 290 254 337 16,259 10,305 9,685 11,851 8.3
- Halogen: 302 226 217 244 9,665 6,062 6,133 6,767 10.0
- Other: 30 Q Q Q 554 Q Q Q 46.2

Energy Conservation Features (more than one may apply)
- Any Conservation Features: 4,075 3,068 2,613 3,502 55,288 37,396 34,804 43,066 4.0
- Building Shell: 3,906 2,949 2,536 3,342 53,190 36,006 33,692 41,174 4.1
- HVAC: 2,529 1,976 1,736 2,186 44,657 30,509 28,838 34,326 4.8
- Lighting: 2,084 1,590 1,351 1,855 38,537 25,770 24,224 29,856 4.8

Off-Hour Equipment Reduction (more than one may apply)
- Heating: 3,211 3,211 2,597 3,168 38,326 38,326 33,968 37,919 4.3
- Cooling: 2,707 2,597 2,707 2,681 35,605 33,968 35,605 35,259 4.2
- Lighting: 3,753 3,168 2,681 3,753 44,937 37,919 35,259 44,937 4.2

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
-- = Data not applicable.

Notes: To obtain the RSE percentage for any table cell, multiply the cell’s corresponding RSE column and RSE row factors. See Glossary for explanation of abbreviations and definitions of terms used in this report.