



# Office Buildings

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Although no one building type dominates the commercial buildings sector, office buildings are the most common and account for more than 800,000 buildings or 17 percent of total commercial buildings. Offices comprised more than 12 billion square feet of floorspace, 17 percent of total commercial floorspace, the most of any building type.

## Types of Office Buildings

The [2003 CBECS Detailed Tables](#) present data for office buildings along with other principal building activities (see Detailed Tables B13 and B14, for example). Since office buildings comprise a wide range of office-related activities, survey respondents were presented with a follow-up list of specific office types to choose from. Although we have not presented the office sub-category information in the detailed tables we make information about the sub-categories available in the [2003 Public Use Micro-Data files](#). Several of the sub-category choices presented to respondents were reported too few times to produce statistically reliable estimates and were aggregated with the "other type of office" category. We provide information in the micro-data files for the following office sub-categories (with examples of each):

- Administrative or professional office
  - University administration building
  - Insurance company headquarters building
  - Local insurance agency
  - Social services office
  - Attorney's office
  - Real estate sales office
- Government office
  - State agency headquarters office
  - Regional Federal agency service center
  - City hall
  - Ranger station
  - Metropolitan sewage district office
- Bank or other financial office
  - Bank
  - Savings and loan
  - Credit union
  - Check cashing
- Mixed-use office
  - Bank offices and insurance office
  - Training center and administrative office
- Medical office without medical diagnostic equipment
  - Health services administrative center
  - Mental health services
- Other type of office
  - Contractor's office
  - Call center

The following table presents summary statistics for these office sub-categories. Administrative or professional office buildings dominate the entire office building category and account for more

than half of office buildings and floorspace in office buildings (Figure 1).

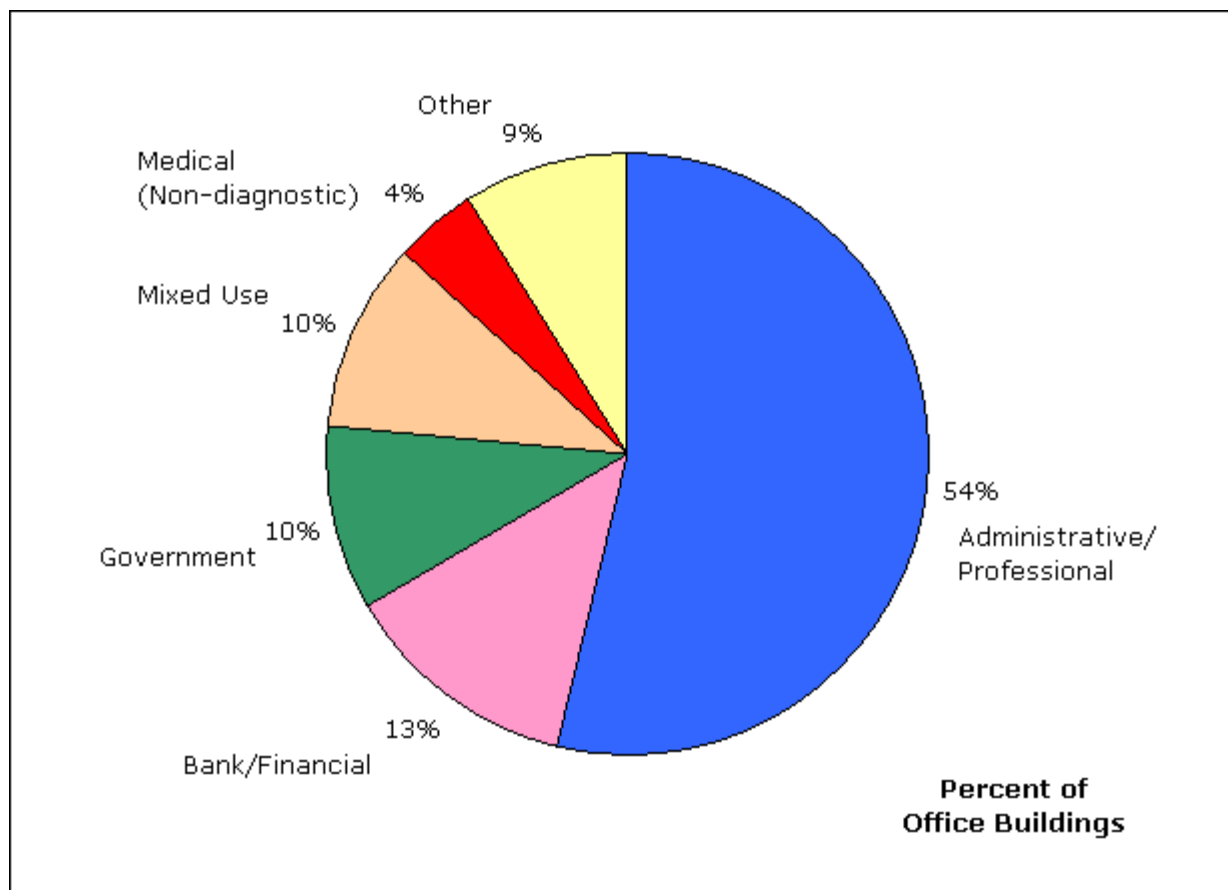
**Table 1. Totals and means of of floorspace, number of workers, and hours of operation for office buildings, 2003**

|                                    | Buildings<br>(thousand) | Total<br>Floorspace<br>(million<br>sq. ft.) | Total<br>Workers<br>(thousand) | Mean Square Feet per<br>Building (thousand) | Mean Square<br>Feet per<br>Worker | Mean<br>Hours per<br>Week |
|------------------------------------|-------------------------|---|--------------------------------|---|-----------------------------------|---------------------------|
| <b>All Buildings</b>               | 4,859                   | 71,658                                      | *                              | 14.7  | *                                 | *                         |
| <b>All Non-Mall<br/>Buildings</b>  | 4,645                   | 64,783                                      | 72,807                         | 13.9  | 890                               | 61                        |
| <b>All Office<br/>Buildings</b>    | 824                     | 12,208                                      | 28,154                         | 14.8  | 434                               | 55                        |
| <b>Type of Office<br/>Building</b> |                         |   |                                |   |                                   |                           |
| —                                  |                         |   |                                |   |                                   |                           |
| Administrative/<br>Professional    | 442                     | 6,628                                       | 15,316                         | 15.0  | 433                               | 56                        |
| —Bank/Financial                    | 104                     | 1,101                                       | 2,323                          | 10.6  | 474                               | 50                        |
| —Government                        | 84                      | 1,549                                       | 4,042                          | 18.4  | 383                               | 50                        |
| —Medical (Non-<br>Diagnostic)      | 37                      | 223   | 449                            | 6.0   | 497                               | 54                        |
| —Mixed Use                         | 84                      | 2,297                                       | 5,054                          | 27.5  | 454                               | 61                        |
| —Other Office                      | 73                      | 410   | 970                            | 5.6   | 422                               | 53                        |

\* Number of workers and hours of operation were not collected for mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Figure 1. Percentage of Office Buildings by Type of Office, 2003**



Source: Energy Information Administration. 2003 Commercial Buildings Energy Consumption Survey.

Two of the office sub-categories, administrative/professional and government, can be reported for major building characteristics categories (Table 2 and Table 3). All other office sub-categories

have been aggregated into the "Other" category. Below Table 2 and Table 3 are links to tables with a full set of rowstubs.

**Table 2. Types of Office Building, Number of Buildings, 2003**

|  | Total Buildings<br>(thousand) |                  |                                 |            |       |
|--|-------------------------------|------------------|---------------------------------|------------|-------|
|  | All Buildings*                | Office Buildings |                                 |            |       |
|  |                               | All Office       | Administrative/<br>Professional | Government | Other |
| <b>All Buildings</b>                         | 4,645                         | 824              | 442                             | 84         | 298   |
| <b>Building Floorspace<br/>(square feet)</b> |                               |                  |                                 |            |       |
| —Small (1,001 to 5,000)                      | 2,552                         | 503              | 273                             | Q          | 189   |
| —Medium (5,001 to 50,000)                    | 1,868                         | 285              | 147                             | 38         | 100   |
| —Large (Over 50,000)                         | 225                           | 35               | 21                              | 5          | 9     |
| <b>Year Constructed</b>                      |                               |                  |                                 |            |       |
| —Before 1960                                 | 1,419                         | 230              | 158                             | 21         | 51    |
| —1960 to 1989                                | 2,016                         | 414              | 204                             | 47         | 163   |
| —1990 to 2003                                | 1,210                         | 180              | 80                              | 17         | 83    |
| <b>Census Region and Division</b>            |                               |                  |                                 |            |       |
| —Northeast                                   | 726                           | 155              | 87                              | 19         | 49    |
| —New England                                 | 233                           | 47               | 26                              | Q          | Q     |
| —Middle Atlantic                             | 493                           | 108              | 61                              | 11         | 36    |
| —Midwest                                     | 1,266                         | 231              | 120                             | 28         | 83    |
| —East North Central                          | 696                           | 134              | 79                              | 14         | 41    |
| —West North Central                          | 571                           | 97               | 41                              | Q          | 42    |
| —South                                       | 1,775                         | 250              | 131                             | 25         | 94    |
| —South Atlantic                              | 874                           | 125              | 72                              | 6          | 47    |
| —East South Central                          | 348                           | 41               | 26                              | Q          | Q     |
| —West South Central                          | 553                           | 84               | 33                              | Q          | 38    |
| —West  | 878                           | 187              | 105                             | 11         | 72    |
| —Mountain                                    | 299                           | 62               | 28                              | Q          | 28    |
| —Pacific                                     | 580                           | 125              | 77                              | Q          | 43    |

\* Data are for non-mall buildings.

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

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Table 2** with full set of rowstubs.

Note: Excel version includes tab for relative standard errors (RSEs).

See ["What is an RSE?"](#) for additional information.

Excel



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**Table 3. Types of Office Building, Floorspace, 2003**

|  | Total Floorspace<br>(million square feet) |                  |                                 |            |       |
|--|---|------------------|---------------------------------|------------|-------|
|  | All Buildings*                            | Office Buildings |                                 |            |       |
|  |   | All Office       | Administrative/<br>Professional | Government | Other |
| <b>All Buildings</b>                         | 64,783                                    | 12,208           | 6,628                           | 1,549      | 4,031 |
| <b>Building Floorspace<br/>(square feet)</b> |   |                  |                                 |            |       |
| —Small (1,001 to 5,000)                      | 6,789                                     | 1,382            | 730                             | Q          | 546   |
| —Medium (5,001 to 50,000)                    | 26,789                                    | 4,331            | 2,301                           | 560        | 1,470 |
| —Large (Over 50,000)                         | 31,206                                    | 6,495            | 3,597                           | 883        | 2,015 |
| <b>Year Constructed</b>                      |   |                  |                                 |            |       |
| —Before 1960                                 | 17,685                                    | 2,852            | 1,454                           | 433        | 965   |
| —1960 to 1989                                | 29,205                                    | 6,792            | 3,773                           | 724        | 2,295 |
| —1990 to 2003                                | 17,893                                    | 2,563            | 1,401                           | 392        | 770   |
| <b>Census Region and Division</b>            |   |                  |                                 |            |       |
| —Northeast                                   | 12,905                                    | 3,012            | 1,560                           | 316        | 1,136 |
| —New England                                 | 2,964                                     | 578              | 332                             | Q          | Q     |
| —Middle Atlantic                             | 9,941                                     | 2,434            | 1,228                           | 217        | 988   |
| —Midwest                                     | 17,080                                    | 2,989            | 1,584                           | 486        | 919   |
| —East North Central                          | 11,595                                    | 2,190            | 1,242                           | 374        | 575   |
| —West North Central                          | 5,485                                     | 799              | 342                             | Q          | 345   |
| —South                                       | 23,489                                    | 3,782            | 2,011                           | 564        | 1,206 |
| —South Atlantic                              | 12,258                                    | 1,958            | 1,007                           | Q          | 633   |
| —East South Central                          | 3,393                                     | 481              | 253                             | Q          | Q     |
| —West South Central                          | 7,837                                     | 1,343            | 752                             | Q          | 462   |
| —West  | 11,310                                    | 2,425            | 1,473                           | 183        | 769   |
| —Mountain                                    | 3,675                                     | 629              | 346                             | Q          | 208   |
| —Pacific                                     | 7,635                                     | 1,796            | 1,127                           | Q          | 561   |

\* Data are for non-mall buildings.

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

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

Excel



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**Table 3** with full set of rowstubs.

Note: Excel version includes tab for relative standard errors (RSEs).

See "[What is an RSE?](#)" for additional information.

## Energy Consumption

Office buildings consumed more than 17 percent of the total energy used by the commercial buildings sector (Table 4). At least half of total energy, electricity, and natural gas consumed by office buildings was consumed by administrative or professional office buildings (Figure 2).

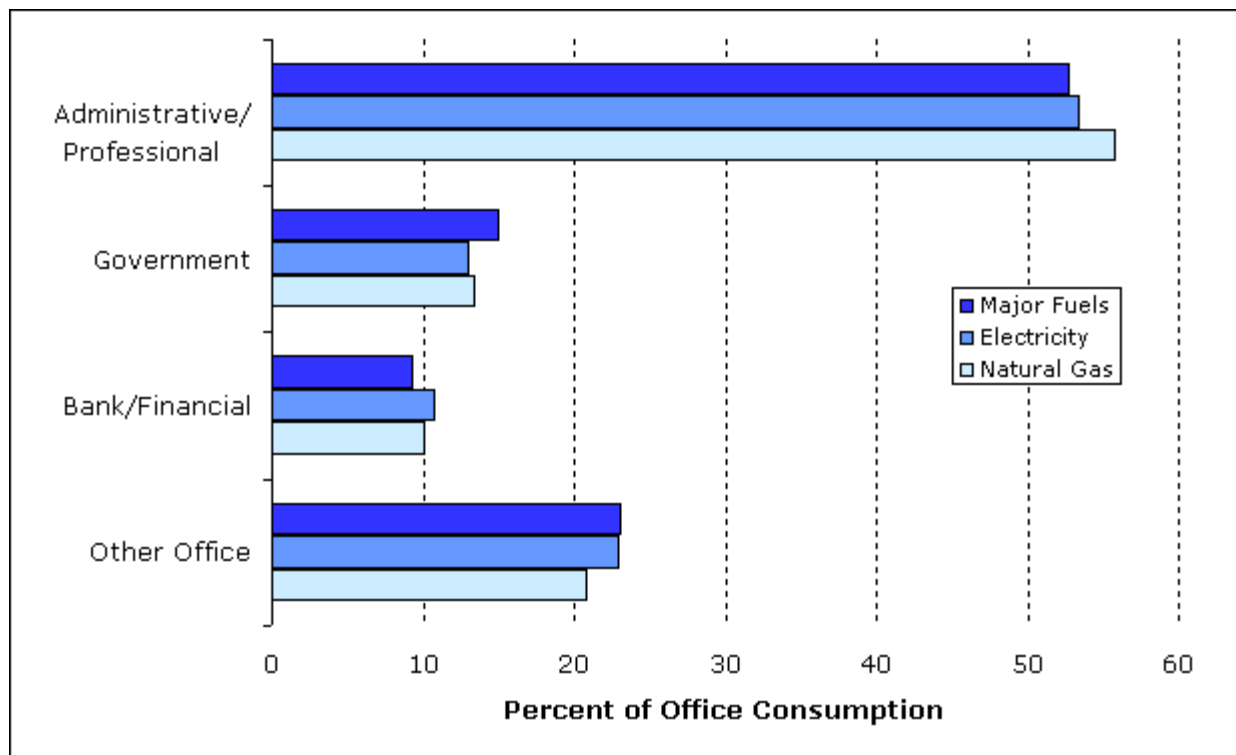
**Table 4. Energy Consumed by Office Buildings for Major Fuels, 2003**

|                                | All Buildings                  |                                    | Total Energy Consumption (trillion Btu) |             |             |          |               |
|--------------------------------|--------------------------------|------------------------------------|---|-------------|-------------|----------|---------------|
|                                | Number of Buildings (thousand) | Total Floorspace (million sq. ft.) | Sum of Major Fuels                      | Electricity | Natural Gas | Fuel Oil | District Heat |
| <b>All Buildings</b>           | 4,859                          | 71,658                             | 6,523                                   | 3,559       | 2,100       | 228      | 636           |
| <b>All Non-Mall Buildings</b>  | 4,645                          | 64,783                             | 5,820                                   | 3,037       | 1,928       | 222      | 634           |
| <b>All Office Buildings</b>    | 824                            | 12,208                             | 1,134                                   | 719         | 269         | 18       | 128           |
| <b>Type of Office Building</b> |                                |                                    |   |             |             |          |               |
| —Administrative/Professional   | 442                            | 6,628                              | 598                                     | 384         | 150         | 9        | 55            |
| —Bank/Financial                | 104                            | 1,101                              | 105                                     | 77          | 27          | Q        | N             |
| —Government                    | 84                             | 1,549                              | 170                                     | 93          | 36          | Q        | Q             |
| —Other Office                  | 194                            | 2,930                              | 261                                     | 165         | 56          | 5        | Q             |

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

N=No cases in sample.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Figure 2. Percentage of Energy Consumed in Office Buildings by Type of Office, 2003**

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

Energy consumption per building and per square foot of floorspace varied significantly across the office sub-categories while consumption per employee showed less variation (Table 5). Consumption per square foot of floorspace for sum of major sources was greatest for government buildings.

**Table 5. Summary of Consumption for Sum of Major Fuels for Office Buildings, 2003**

|                                | All Buildings                  |                                    |  | Sum of Major Fuel Consumption |                            |                                |                          |
|--------------------------------|--------------------------------|------------------------------------|--|-------------------------------|----------------------------|--------------------------------|--------------------------|
|                                | Number of Buildings (thousand) | Total Floorspace (million sq. ft.) | Floorspace per Building (thousand square feet) | Total (trillion Btu)          | per Building (million Btu) | per Square Foot (thousand Btu) | per Worker (million Btu) |
| <b>All Buildings</b>           | 4,859                          | 71,658                             | 14.7   | 6,523                         | 1,342                      | 91.0                           | *                        |
| <b>All Non-Mall Buildings</b>  | 4,645                          | 64,783                             | 13.9   | 5,820                         | 1,253                      | 89.8                           | 79.9                     |
| <b>All Office Buildings</b>    | 824                            | 12,208                             | 14.8   | 1,134                         | 1,376                      | 92.9                           | 40.3                     |
| <b>Type of Office Building</b> |                                |                                    |  |                               |                            |                                |                          |
| —Administrative/Professional   | 442                            | 6,628                              | 15.0   | 598                           | 1,352                      | 90.2                           | 39.0                     |
| —Bank/Financial                | 104                            | 1,101                              | 10.6   | 105                           | 1,015                      | 95.6                           | 45.3                     |
| —Government                    | 84                             | 1,549                              | 18.4   | 170                           | 2,017                      | 109.6                          | 42.0                     |
| —Other Office                  | 194                            | 2,930                              | 15.1   | 261                           | 1,346                      | 89.0                           | 40.3                     |

\* Number of workers not collected for mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

Tables 6 and 7 show electricity and natural gas intensities and the median, 25<sup>th</sup>, and 75<sup>th</sup> percentile building-level intensities. The 25<sup>th</sup> and 75<sup>th</sup> percentiles give a sense of the range of intensities for each of the office sub-categories. Figures 3 and 4 display the variation for the two energy sources.

Financial office buildings have the highest median, 25<sup>th</sup>, and 75<sup>th</sup> percentile building-level electricity intensities. For natural gas, the picture is less varied. With the exception of the "bank/financial" median value, the median, 25<sup>th</sup>, and 75<sup>th</sup> percentile values across office building types were fairly similar.

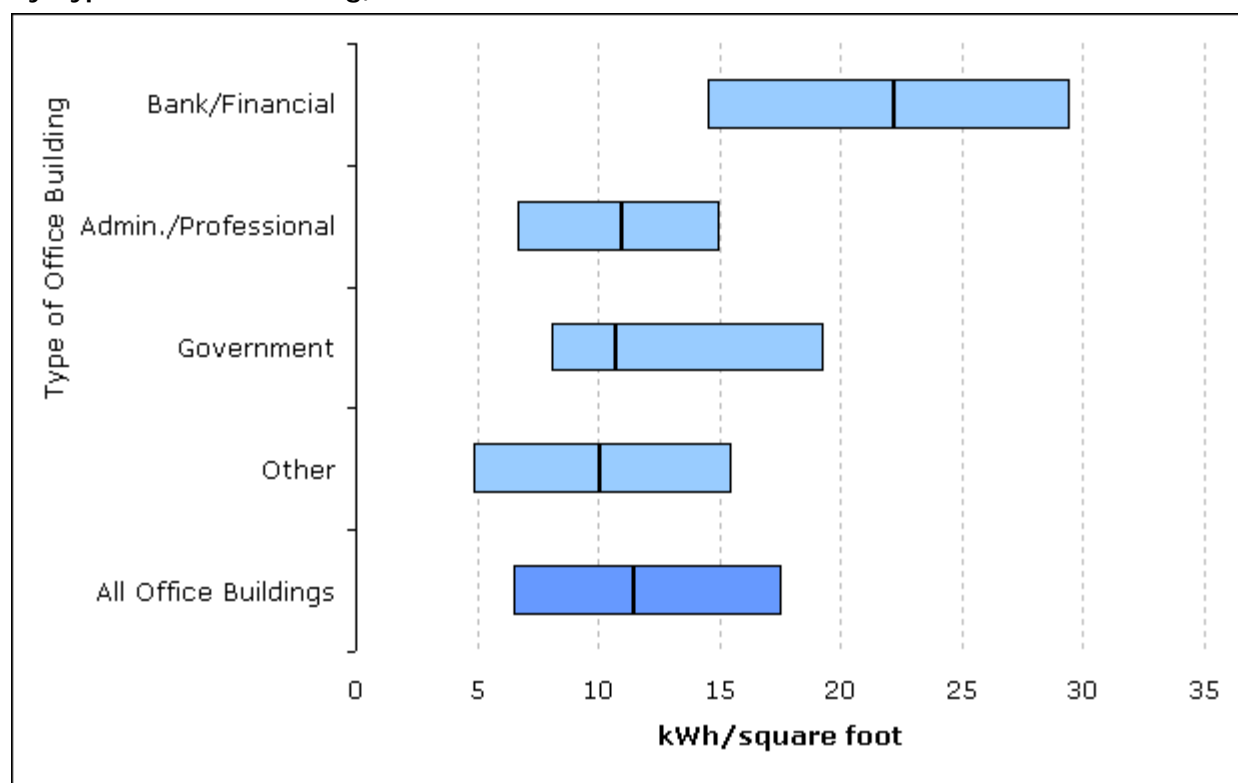
**Table 6. Consumption of Electricity for Office Buildings, 2003**

|                                | Electricity Consumption     |                       |                           | Distribution of Building-Level Intensities (kWh/square foot) |        |                             |
|--------------------------------|-----------------------------|-----------------------|---------------------------|--|--------|-----------------------------|
|                                | per Building (thousand kWh) | per Square Foot (kWh) | per Worker (thousand kWh) | 25 <sup>th</sup> Percentile                                  | Median | 75 <sup>th</sup> Percentile |
| <b>All Buildings</b>           | 226                         | 14.9                  | *                         | 3.8  | 8.8    | 18.1                        |
| <b>All Non-Mall Buildings</b>  | 202                         | 14.1                  | 12.2                      | 3.6  | 8.2    | 17.1                        |
| <b>All Office Buildings</b>    | 256                         | 17.3                  | 7.5                       | 6.5  | 11.5   | 17.6                        |
| <b>Type of Office Building</b> |                             |                       |                           |  |        |                             |
| —Administrative/Professional   | 254                         | 17.0                  | 7.3                       | 6.7  | 11.0   | 15.0                        |
| —Bank/Financial                | 217                         | 20.4                  | 9.7                       | 14.5   | 22.2   | 29.5                        |
| —Government                    | 325                         | 17.7                  | 6.8                       | 8.1  | 10.7   | 19.3                        |
| —Other Office                  | 249                         | 16.5                  | 7.5                       | 4.9  | 10.1   | 15.5                        |

\* Number of workers not collected for mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Figure 3. Building-Level Electricity Intensities (25<sup>th</sup> percentile, median, and 75<sup>th</sup> percentile) by Type of Office Building, 2003**



Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

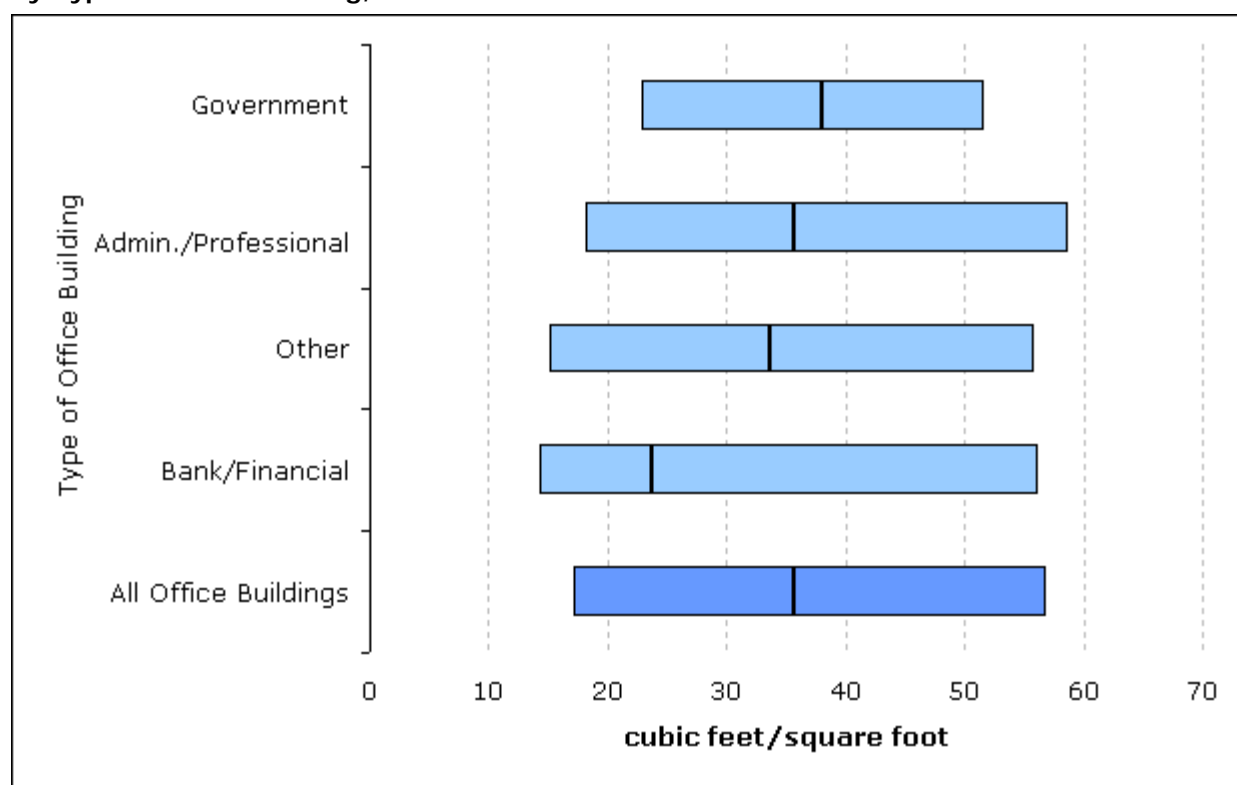
**Table 7. Consumption of Natural Gas for Office Buildings, 2003**

|                                | Natural Gas Consumption            |                              |                                  | Distribution of Building-Level Intensities (cubic feet/square foot) |        |                             |
|--------------------------------|------------------------------------|------------------------------|----------------------------------|---|--------|-----------------------------|
|                                | per Building (thousand cubic feet) | per Square Foot (cubic feet) | per Worker (thousand cubic feet) | 25 <sup>th</sup> Percentile   | Median | 75 <sup>th</sup> Percentile |
| <b>All Buildings</b>           | 803                                | 42.0                         | *                                | 17.9  | 37.4   | 71.0                        |
| <b>All Non-Mall Buildings</b>  | 782                                | 43.0                         | 36.0                             | 17.6  | 37.1   | 70.9                        |
| <b>All Office Buildings</b>    | 535                                | 31.8                         | 13.8                             | 17.2  | 35.7   | 56.9                        |
| <b>Type of Office Building</b> |                                    |                              |                                  |   |        |                             |
| —Administrative/Professional   | 538                                | 32.1                         | 13.4                             | 18.2  | 35.6   | 58.8                        |
| —Bank/Financial                | 435                                | 30.1                         | 14.4                             | 14.3  | 23.7   | 56.2                        |
| —Government                    | 800                                | 34.2                         | 14.5                             | 22.9  | 38.0   | 51.7                        |
| —Other Office                  | 480                                | 30.8                         | 14.5                             | 15.1  | 33.7   | 55.9                        |

\* Number of workers not collected for mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Figure 4. Building-Level Natural Gas Intensities (25<sup>th</sup> percentile, median, and 75<sup>th</sup> percentile) by Type of Office Building, 2003**



Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

## End-Use Equipment

The types of space heating equipment used in office buildings were similar to those of the commercial buildings sector as a whole (Table 8 and Figure 5). Furnaces were most used followed by packaged heating systems. Individual space heaters were third-most used but were primarily used to supplement the building's main heating system. Boilers and district heat systems were more often used in larger buildings.

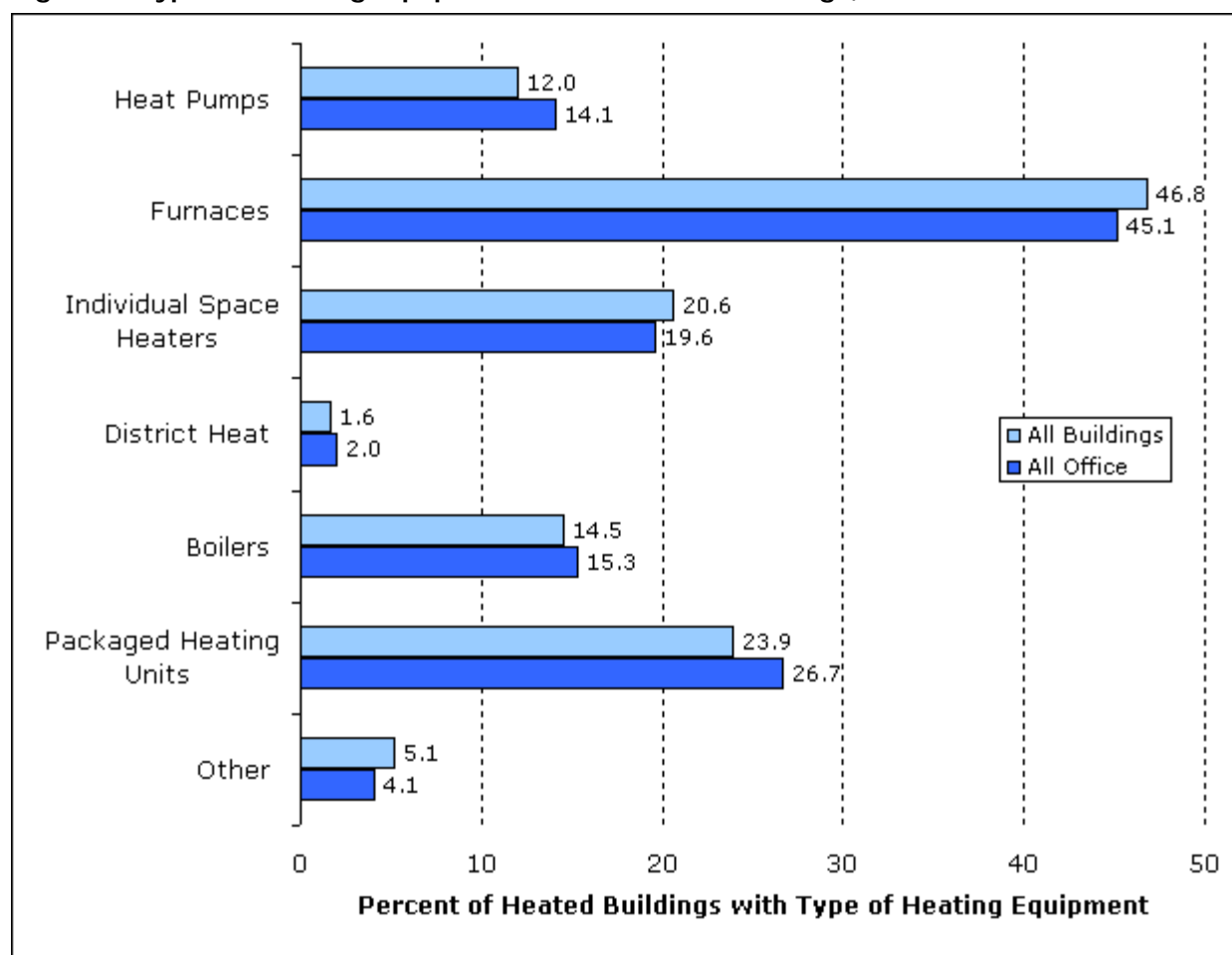
**Table 8. Types of Heating Equipment Used in Office Buildings, 2003**

|  | Number of Buildings (thousand) |                      | Total Floorspace (million square feet) |                      |
|--|--------------------------------|----------------------|--|----------------------|
|  | All Buildings*                 | All Office Buildings | All Buildings*                         | All Office Buildings |
| <b>All Buildings</b>                               | 4,645                          | 824                  | 64,783                                 | 12,208               |
| <b>All Buildings with Space Heating</b>            | 3,982                          | 802                  | 60,028                                 | 11,929               |
| <b>Heating Equipment (more than one may apply)</b> |                                |                      |  |                      |
| —Heat Pumps  | 476                            | 113                  | 8,814                                  | 1,795                |
| —Packaged Heat Pumps                               | 278                            | 67                   | 5,442                                  | 1,260                |
| —Split System Heat Pumps                           | 166                            | 42                   | 2,581                                  | 422                  |
| —Individual Room Heat Pumps                        | 58                             | 8                    | 2,691                                  | 506                  |
| —Furnaces  | 1,864                          | 362                  | 19,615                                 | 2,405                |
| —Individual Space Heaters                          | 819                            | 157                  | 12,545                                 | 2,186                |
| —District Heat                                     | 65                             | 16                   | 5,166                                  | 1,526                |
| —Boilers   | 579                            | 123                  | 20,423                                 | 4,117                |
| —Packaged Heating Units                            | 953                            | 214                  | 18,021                                 | 3,754                |
| —Other   | 205                            | 33                   | 3,262                                  | 970                  |

\* Data are for non-mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.



**Figure 5. Types of Heating Equipment Used in Office Buildings, 2003**

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

For cooling, packaged air conditioning units were most widely used for office buildings, as well as all commercial buildings (Table 9 and Figure 6). Residential-type central air conditioning systems were second-most commonly used. Central chillers and district chilled water systems were more commonly used in larger buildings.

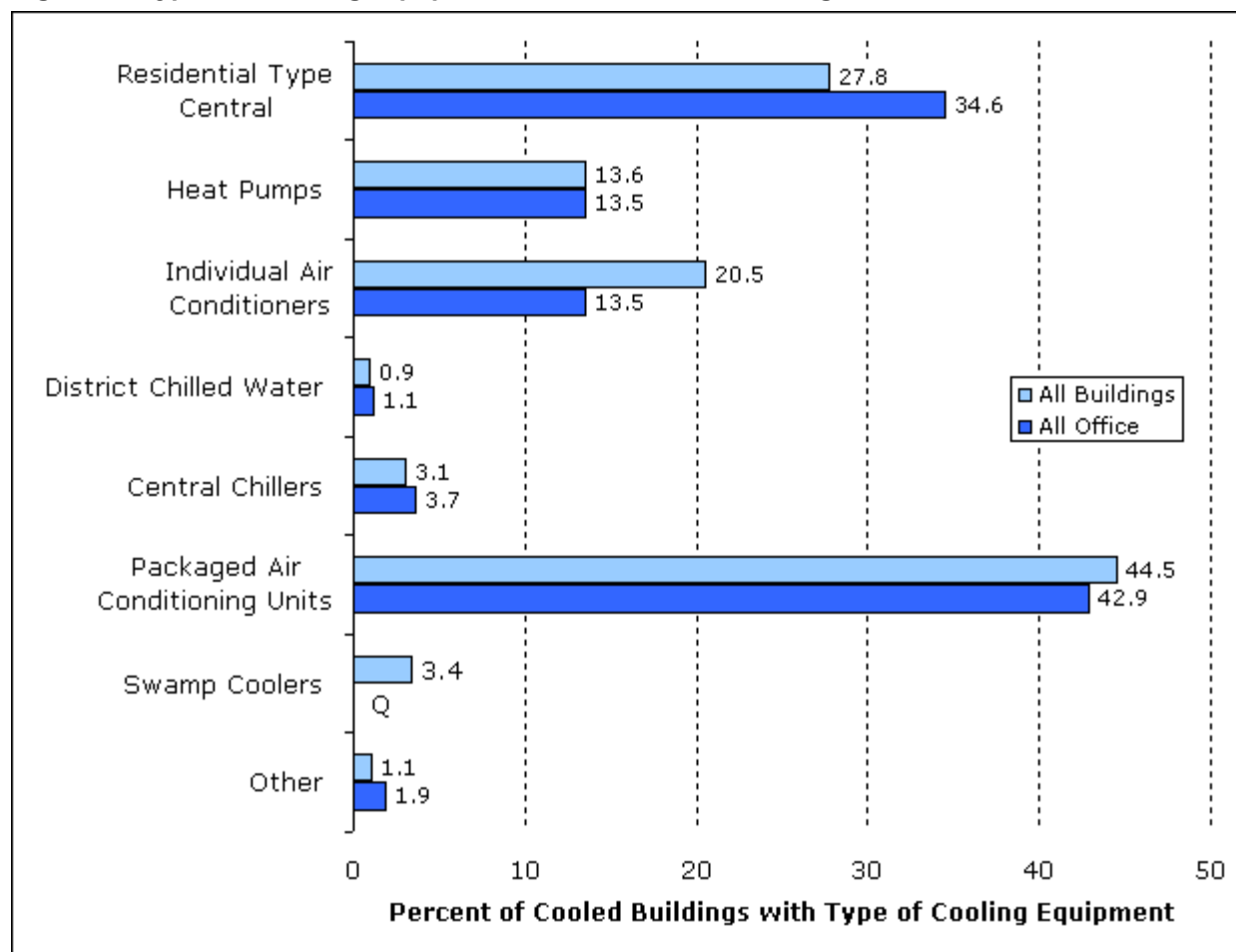
**Table 9. Types of Cooling Equipment Used in Office Buildings, 2003**

|  | Number of Buildings<br>(thousand) |                      | Total Floorspace<br>(million square feet) |                      |
|--|-----------------------------------|----------------------|---|----------------------|
|  | All Buildings*                    | All Office Buildings | All Buildings*                            | All Office Buildings |
| <b>All Buildings</b>                                   | 4,645                             | 824                  | 64,783                                    | 12,208               |
| <b>All Buildings with Cooling</b>                      | 3,625                             | 790                  | 56,940                                    | 12,032               |
| <b>Cooling Equipment<br/>(more than one may apply)</b> |                                   |                      |   |                      |
| —Residential Type Central Air Conditioners             | 1,006                             | 273                  | 11,035                                    | 1,669                |
| —Heat Pumps  | 492                               | 107                  | 9,041                                     | 1,854                |
| —Packaged Heat Pumps                                   | 288                               | 65                   | 5,426                                     | 1,259                |
| —Split System Heat Pumps                               | 174                               | 39                   | 2,606                                     | 434                  |
| —Individual Room Heat Pumps                            | 58                                | 8                    | 2,940                                     | 615                  |
| —Individual Air Conditioners                           | 742                               | 107                  | 12,558                                    | 1,201                |
| —District Chilled Water                                | 33                                | 9                    | 2,853                                     | 730                  |
| —Central Chillers                                      | 111                               | 29                   | 11,636                                    | 3,839                |
| —Packaged Air Conditioning Units                       | 1,613                             | 339                  | 29,969                                    | 6,171                |
| —Swamp Coolers   | 122                               | Q                    | 1,561                                     | Q                    |
| —Other   | 40                                | 15                   | 1,232                                     | 439                  |

\* Data are for non-mall buildings.

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

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

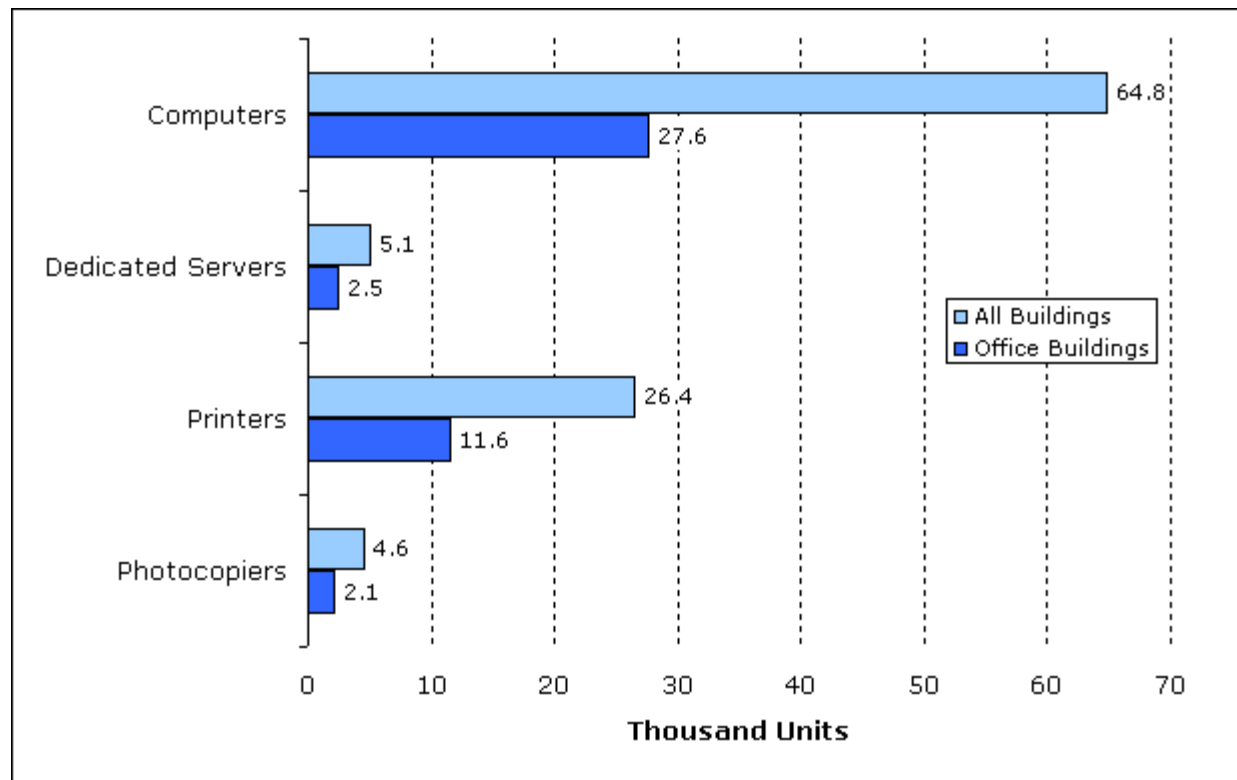
**Figure 6. Types of Cooling Equipment Used in Office Buildings, 2003**

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

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

More computers, dedicated servers, printers, and photocopiers were used in office buildings than in any other type of commercial building (Figure 7). In 2003, nearly 981 computers per 1,000 employees were reported for office buildings (Table 10). That exceeded the value for all non-mall commercial buildings (938 per 1,000 employees). Dedicated servers were less widely used in buildings (about 8% of the total number of computers). Nearly half (48.8%) of all servers were used in office buildings (Table 11).

The total number of printers was about 40 percent of the total number of computers. Office buildings used 11.6 million while the total for non-mall commercial buildings was 26.4 million units (Table 12). A total of 4.6 million photocopiers were used in non-mall buildings, with 47 percent (2.1 million) used in office buildings (Table 13).

**Figure 7. Number of Computers, Dedicated Servers, Printers, and Photocopiers Used in Office Buildings, 2003**

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Table 10. Computers Used in Office Buildings, 2003**

|                                | Number of Buildings (thousand) | Buildings with Computers       |  |                                |                     | Computers per Thousand Employees |
|--------------------------------|--------------------------------|--------------------------------|--|--------------------------------|---------------------|----------------------------------|
|                                |                                | Number of Buildings (thousand) | Total Floorspace (million square feet) | Number of Employees (thousand) | Number of Computers |                                  |
| <b>All Buildings*</b>          | 4,645                          | 3,081                          | 55,627                                 | 69,046                         | 64,773              | 938                              |
| <b>All Office Buildings</b>    | 824                            | 807                            | 12,165                                 | 28,129                         | 27,590              | 981                              |
| <b>Type of Office Building</b> |                                |                                |  |                                |                     |                                  |
| — Administrative/Professional  | 442                            | 434                            | 6,612                                  | 15,302                         | 15,051              | 984                              |
| — Bank/Financial               | 104                            | 104                            | 1,101                                  | 2,323                          | 2,529               | 1,089                            |
| — Government                   | 84                             | 79                             | 1,539                                  | 4,036                          | 3,642               | 902                              |
| — Other Office                 | 194                            | 190                            | 2,914                                  | 6,447                          | 6,367               | 984                              |

\* Data are for non-mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Table 11. Dedicated Servers Used in Office Buildings, 2003**

|                                | Number of Buildings (thousand) | Buildings with Dedicated Servers                      |  |                                |  |  |
|--------------------------------|--------------------------------|---|--|--------------------------------|--|--|
|                                |                                | Number of Buildings with Dedicated Servers (thousand) | Total Floorspace (million square feet) | Number of Employees (thousand) | Number of Dedicated Servers (thousand) | Dedicated Servers per Thousand Employees |
| <b>All Buildings*</b>          | 4,645                          | 1,175   | 36,338                                 | 52,509                         | 5,104                                  | 97                                       |
| <b>All Office Buildings</b>    | 824                            | 450   | 9,932                                  | 24,378                         | 2,489                                  | 102                                      |
| <b>Type of Office Building</b> |                                |   |  |                                |  |  |
| —                              |                                |   |  |                                |  |  |
| Administrative/Professional    | 442                            | 256   | 5,469                                  | 13,388                         | 1,397                                  | 104                                      |
| —                              |                                |   |  |                                |  |  |
| Bank/Financial                 | 104                            | 72  | 957                                    | 2,047                          | 309                                    | 151                                      |
| —Government                    | 84                             | 48  | 1,338                                  | 3,650                          | 291                                    | 80                                       |
| —Other Office                  | 194                            | 73  | 2,169                                  | 5,293                          | 493                                    | 93                                       |

\*Data are for non-mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Table 12. Printers Used in Office Buildings, 2003**

|                                | Number of Buildings (thousand) | Buildings with Printers                      |  |                                |                               |                                 |
|--------------------------------|--------------------------------|--|--|--------------------------------|-------------------------------|---------------------------------|
|                                |                                | Number of Buildings with Printers (thousand) | Total Floorspace (million square feet) | Number of Computers (thousand) | Number of Printers (thousand) | Printers per Thousand Computers |
| <b>All Buildings*</b>          | 4,645                          | 2,983  | 54,788                                 | 64,773                         | 26,447                        | 408                             |
| <b>All Office Buildings</b>    | 824                            | 804  | 12,161                                 | 27,590                         | 11,605                        | 421                             |
| <b>Type of Office Building</b> |                                |  |  |                                |                               |                                 |
| —                              |                                |  |  |                                |                               |                                 |
| Administrative/Professional    | 442                            | 431  | 6,608                                  | 15,051                         | 6,237                         | 414                             |
| —                              |                                |  |  |                                |                               |                                 |
| Bank/Financial                 | 104                            | 104  | 1,101                                  | 2,529                          | 840                           | 332                             |
| —Government                    | 84                             | 79   | 1,539                                  | 3,642                          | 1,402                         | 385                             |
| —Other Office                  | 194                            | 190  | 2,914                                  | 6,367                          | 3,126                         | 491                             |

\* Data are for non-mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

**Table 13. Photocopiers Used in Office Buildings, 2003**

|                                | Number of Buildings (thousand) | Buildings with Photocopiers                      |  |                                |                                   |                                     |
|--------------------------------|--------------------------------|--|--|--------------------------------|-----------------------------------|-------------------------------------|
|                                |                                | Number of Buildings with Photocopiers (thousand) | Total Floorspace (million square feet) | Number of Employees (thousand) | Number of Photocopiers (thousand) | Photocopiers per Thousand Employees |
| <b>All Buildings*</b>          | 4,645                          | 1,939  | 46,257                                 | 61,340                         | 4,565                             | 74                                  |
| <b>All Office Buildings</b>    | 824                            | 655  | 11,387                                 | 26,903                         | 2,128                             | 79                                  |
| <b>Type of Office Building</b> |                                |  |  |                                |                                   |                                     |
| —                              |                                |  |  |                                |                                   |                                     |
| Administrative/Professional    | 442                            | 371  | 6,150                                  | 14,710                         | 1,179                             | 80                                  |
| —                              |                                |  |  |                                |                                   |                                     |
| Bank/Financial                 | 104                            | 88   | 1,016                                  | 2,192                          | 187                               | 85                                  |
| —Government                    | 84                             | 69   | 1,497                                  | 3,968                          | 262                               | 66                                  |
| —Other Office                  | 194                            | 127  | 2,725                                  | 6,033                          | 501                               | 83                                  |

\* Data are for non-mall buildings.

Source: Energy Information Administration, 2003 Commercial Buildings Energy Consumption Survey.

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#### Detailed office tables

Table 2. Office Building Sub-Categories, Number of Buildings, 2003

Table 3. Office Building Sub-Categories, Floorspace, 2003

Note: Excel version includes tab for relative standard errors (RSEs).

See "[What is an RSE?](#)" for additional information.

Excel



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