

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

|                                                           | Number of Buildings (thousand) |                  |                                 |            |                  |
|-----------------------------------------------------------|--------------------------------|------------------|---------------------------------|------------|------------------|
|                                                           | All Buildings*                 | Office Buildings |                                 |            |                  |
|                                                           |                                | All Office       | Administrative/<br>Professional | Government | All Other Office |
| <b>All Buildings</b> .....                                | 4,645                          | 824              | 442                             | 84         | 298              |
| <b>Building Floorspace (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               |
| <b>Climate Zone: 30 Year Average</b>                      |                                |                  |                                 |            |                  |
| Under 2,000 CDD and<br>More than 7,000 HDD.....           | 855                            | 154              | 64                              | 21         | 69               |
| 5,500 7,000 HDD.....                                      | 1,173                          | 219              | 122                             | 26         | 71               |
| 4,000 5,499 HDD.....                                      | 673                            | 135              | 79                              | 14         | 41               |
| Fewer than 4,000 HDD.....                                 | 1,276                          | 195              | 120                             | 11         | 64               |
| 2,000 CDD or More and<br>Fewer than 4,000 HDD.....        | 669                            | 122              | 57                              | Q          | 52               |
| <b>Number of Floors</b>                                   |                                |                  |                                 |            |                  |
| One.....                                                  | 3,136                          | 441              | 221                             | 56         | 164              |
| Two.....                                                  | 1,031                          | 234              | 128                             | 16         | 91               |
| Three.....                                                | 339                            | 98               | 59                              | Q          | 32               |
| Four to Nine.....                                         | 128                            | 44               | 31                              | 5          | 8                |
| Ten or More.....                                          | 12                             | 6                | 3                               | Q          | 3                |
| <b>Elevators and Escalators (more than one may apply)</b> |                                |                  |                                 |            |                  |
| Any Elevators.....                                        | 309                            | 102              | 60                              | 12         | 30               |
| Number of Elevators                                       |                                |                  |                                 |            |                  |
| One.....                                                  | 208                            | 67               | 39                              | Q          | 20               |
| Two to Five.....                                          | 88                             | 29               | 18                              | 3          | 8                |
| Six or More.....                                          | 13                             | 6                | 3                               | 1          | 2                |
| Any Escalators.....                                       | 6                              | 3                | Q                               | Q          | Q                |

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|                                       | All Buildings*                 | Office Buildings |                                 |            |                  |
|                                       |                                | All Office       | Administrative/<br>Professional | Government | All Other Office |
| <b>All Buildings.....</b>             | 4,645                          | 824              | 442                             | 84         | 298              |
| <b>Number of Workers (main shift)</b> |                                |                  |                                 |            |                  |
| Fewer than 5.....                     | 2,653                          | 255              | 147                             | Q          | 86               |
| 5 to 9.....                           | 778                            | 215              | 94                              | Q          | 101              |
| 10 to 19.....                         | 563                            | 133              | 80                              | Q          | 42               |
| 20 to 49.....                         | 398                            | 128              | 66                              | 20         | 42               |
| 50 to 99.....                         | 147                            | 46               | 27                              | Q          | 14               |
| 100 to 249.....                       | 77                             | 30               | 19                              | Q          | 7                |
| 250 or More.....                      | 30                             | 18               | 10                              | 2          | 5                |
| <b>Weekly Operating Hours</b>         |                                |                  |                                 |            |                  |
| Fewer than 40.....                    | 1,002                          | 62               | Q                               | Q          | Q                |
| 40 to 48.....                         | 1,117                          | 375              | 211                             | 47         | 117              |
| 49 to 60.....                         | 1,062                          | 262              | 134                             | 17         | 111              |
| 61 to 84.....                         | 591                            | 59               | 32                              | Q          | 21               |
| 85 to 167.....                        | 400                            | 28               | 18                              | Q          | Q                |
| Open Continuously.....                | 475                            | 38               | 23                              | Q          | 12               |
| <b>Ownership and Occupancy</b>        |                                |                  |                                 |            |                  |
| Nongovernment Owned.....              | 4,011                          | 742              | 413                             | 33         | 296              |
| Owner Occupied.....                   | 1,841                          | 402              | 247                             | Q          | 150              |
| Nonowner Occupied.....                | 2,029                          | 339              | 166                             | 27         | 146              |
| Unoccupied.....                       | 141                            | N                | N                               | N          | N                |
| Government Owned .....                | 635                            | 82               | 29                              | 51         | Q                |
| Federal .....                         | 46                             | 7                | Q                               | 7          | Q                |
| State .....                           | 164                            | 28               | Q                               | Q          | Q                |
| Local .....                           | 425                            | 47               | Q                               | 32         | Q                |
| <b>Vacancy Status</b>                 |                                |                  |                                 |            |                  |
| Completely Vacant .....               | 157                            | N                | N                               | N          | N                |
| Mostly Vacant .....                   | 25                             | N                | N                               | N          | N                |
| Partially Vacant .....                | 548                            | 140              | 74                              | 3          | 63               |
| Not At All Vacant .....               | 3,915                          | 684              | 368                             | 81         | 235              |
| <b>Number of Establishments</b>       |                                |                  |                                 |            |                  |
| One .....                             | 3,754                          | 536              | 279                             | 54         | 203              |
| 2 to 5 .....                          | 643                            | 228              | 131                             | 28         | 70               |
| 6 to 10 .....                         | 55                             | 37               | 21                              | Q          | 14               |
| 11 to 20 .....                        | 23                             | 14               | 8                               | Q          | 6                |
| More than 20 .....                    | 14                             | 7                | 4                               | Q          | 4                |
| Currently Unoccupied .....            | 157                            | N                | N                               | N          | N                |
| <b>Multibuilding Facility</b>         |                                |                  |                                 |            |                  |
| Not Part of a Multibuilding           |                                |                  |                                 |            |                  |
| Facility .....                        | 3,169                          | 584              | 293                             | 55         | 236              |
| College or University .....           | 83                             | 12               | 12                              | N          | Q                |
| Primary or Secondary School .....     | 254                            | Q                | Q                               | N          | N                |
| Office Complex .....                  | 111                            | 82               | 53                              | Q          | 27               |
| Retail Complex .....                  | 151                            | Q                | Q                               | N          | Q                |
| Religious Campus or Complex .....     | 195                            | Q                | Q                               | N          | N                |
| Health Care Complex .....             | 39                             | Q                | Q                               | Q          | Q                |
| Lodging or Resort Complex .....       | 61                             | Q                | Q                               | N          | N                |
| Government Complex .....              | 87                             | 25               | Q                               | 25         | N                |
| Other .....                           | 496                            | 65               | 41                              | Q          | Q                |

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|                                                                                   | All Buildings*                 | Office Buildings |                              |            |                  |
|                                                                                   |                                | All Office       | Administrative/ Professional | Government | All Other Office |
| <b>All Buildings.....</b>                                                         | 4,645                          | 824              | 442                          | 84         | 298              |
| <b>Predominant Exterior Wall Material</b>                                         |                                |                  |                              |            |                  |
| Brick, Stone or Stucco .....                                                      | 2,044                          | 475              | 256                          | 48         | 171              |
| Concrete (Block or Poured) .....                                                  | 786                            | 75               | 41                           | Q          | 19               |
| Concrete Panels .....                                                             | 131                            | 28               | 13                           | Q          | 14               |
| Siding or Shingles .....                                                          | 779                            | 163              | 99                           | Q          | 49               |
| Metal Panels .....                                                                | 825                            | 60               | 21                           | Q          | 35               |
| Window Glass .....                                                                | 17                             | 6                | 4                            | Q          | Q                |
| Other .....                                                                       | 47                             | Q                | Q                            | Q          | Q                |
| No One Major Type .....                                                           | 18                             | Q                | Q                            | N          | Q                |
| <b>Predominant Roof Material</b>                                                  |                                |                  |                              |            |                  |
| Built Up .....                                                                    | 1,036                          | 219              | 118                          | 19         | 81               |
| Shingles (Not Wood) .....                                                         | 1,325                          | 248              | 146                          | Q          | 74               |
| Metal Surfacing .....                                                             | 1,288                          | 114              | 37                           | Q          | 65               |
| Synthetic or Rubber .....                                                         | 511                            | 113              | 64                           | 10         | 38               |
| Slate or Tile .....                                                               | 263                            | 65               | 31                           | Q          | Q                |
| Wooden Materials .....                                                            | 122                            | 43               | Q                            | Q          | Q                |
| Concrete .....                                                                    | 61                             | 16               | Q                            | Q          | Q                |
| Other .....                                                                       | 16                             | Q                | Q                            | Q          | Q                |
| No One Major Type .....                                                           | 25                             | Q                | Q                            | N          | Q                |
| <b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b> |                                |                  |                              |            |                  |
| Any Type of Renovation                                                            |                                |                  |                              |            |                  |
| Since 1980 .....                                                                  | 1,018                          | 193              | 122                          | 24         | 47               |
| Addition or Annex .....                                                           | 256                            | 42               | 23                           | Q          | Q                |
| Reduction In Floorspace .....                                                     | 22                             | Q                | Q                            | Q          | Q                |
| Cosmetic Improvements .....                                                       | 741                            | 139              | 94                           | 8          | 37               |
| Wall or Roof Replacement .....                                                    | 370                            | 61               | 34                           | 6          | 22               |
| Interior Wall                                                                     |                                |                  |                              |            |                  |
| Re Configuration .....                                                            | 411                            | 103              | 67                           | Q          | 27               |
| HVAC Equipment Upgrade .....                                                      | 442                            | 73               | 51                           | 7          | 15               |
| Lighting Upgrade .....                                                            | 455                            | 94               | 63                           | 9          | 22               |
| Window Replacement .....                                                          | 310                            | 72               | 52                           | 11         | Q                |
| Plumbing System Upgrade .....                                                     | 315                            | 49               | 37                           | 2          | 11               |
| Insulation Upgrade .....                                                          | 227                            | 51               | 33                           | Q          | Q                |
| Other Renovation .....                                                            | 19                             | Q                | Q                            | Q          | Q                |
| No Renovations Since 1980 .....                                                   | 1,710                          | 298              | 164                          | 33         | 100              |
| Building Newer than 1980 .....                                                    | 1,917                          | 333              | 156                          | 26         | 150              |
| <b>Energy Sources (more than one may apply)</b>                                   |                                |                  |                              |            |                  |
| Electricity .....                                                                 | 4,404                          | 824              | 442                          | 84         | 298              |
| Natural Gas .....                                                                 | 2,391                          | 488              | 271                          | 43         | 174              |
| Fuel Oil .....                                                                    | 451                            | 65               | 34                           | 14         | 17               |
| District Heat .....                                                               | 67                             | 16               | 13                           | Q          | Q                |
| District Chilled Water .....                                                      | 33                             | 9                | 7                            | Q          | Q                |
| Propane .....                                                                     | 502                            | 39               | Q                            | Q          | Q                |
| Other .....                                                                       | 61                             | Q                | Q                            | Q          | Q                |

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|                                                                     |                                | All Office       | Administrative/<br>Professional | Government | All Other<br>Office |
| <b>All Buildings.....</b>                                           | 4,645                          | 824              | 442                             | 84         | 298                 |
| <b>Energy End Uses (more than one may apply)</b>                    |                                |                  |                                 |            |                     |
| Buildings with Space Heating.....                                   | 3,982                          | 802              | 434                             | 84         | 284                 |
| Buildings with Cooling .....                                        | 3,625                          | 790              | 422                             | 84         | 284                 |
| Buildings with Water Heating.....                                   | 3,472                          | 733              | 397                             | 80         | 256                 |
| Buildings with Cooking .....                                        | 801                            | 23               | 11                              | 6          | 6                   |
| Buildings with Manufacturing.....                                   | 119                            | 19               | 11                              | Q          | Q                   |
| Buildings with Electricity Generation .....                         | 149                            | 38               | 20                              | 8          | 11                  |
| <b>Heating Equipment (more than one may apply)</b>                  |                                |                  |                                 |            |                     |
| Heat Pumps .....                                                    | 476                            | 113              | 55                              | 9          | 49                  |
| Packaged Heat Pumps .....                                           | 278                            | 67               | 30                              | Q          | 31                  |
| Split System Heat Pumps .....                                       | 166                            | 42               | Q                               | Q          | Q                   |
| Individual Room Heat Pumps.....                                     | 58                             | 8                | 4                               | Q          | Q                   |
| Furnaces .....                                                      | 1,864                          | 362              | 208                             | 39         | 114                 |
| Individual Space Heaters .....                                      | 819                            | 157              | 87                              | 15         | 54                  |
| District Heat .....                                                 | 65                             | 16               | 13                              | Q          | Q                   |
| Boilers .....                                                       | 579                            | 123              | 68                              | 16         | 38                  |
| Packaged Heating Units .....                                        | 953                            | 214              | 99                              | 25         | 89                  |
| Other .....                                                         | 205                            | 33               | 23                              | Q          | 4                   |
| <b>Cooling Equipment (more than one may apply)</b>                  |                                |                  |                                 |            |                     |
| Residential Type Central Air Conditioners .....                     | 1,006                          | 273              | 156                             | 32         | 86                  |
| Heat Pumps .....                                                    | 492                            | 107              | 48                              | 10         | 50                  |
| Packaged Heat Pumps .....                                           | 288                            | 65               | 24                              | Q          | 34                  |
| Split System Heat Pumps .....                                       | 174                            | 39               | Q                               | Q          | Q                   |
| Individual Room Heat Pumps.....                                     | 58                             | 8                | 4                               | Q          | Q                   |
| Individual Air Conditioners.....                                    | 742                            | 107              | 64                              | 10         | 33                  |
| District Chilled Water .....                                        | 33                             | 9                | 7                               | Q          | Q                   |
| Central Chillers .....                                              | 111                            | 29               | 18                              | 4          | 7                   |
| Packaged Air Conditioning Units .....                               | 1,613                          | 339              | 168                             | 40         | 132                 |
| Swamp Coolers .....                                                 | 122                            | Q                | Q                               | Q          | Q                   |
| Other .....                                                         | 40                             | 15               | Q                               | Q          | Q                   |
| <b>Main Equipment Replaced Since 1990 (more than one may apply)</b> |                                |                  |                                 |            |                     |
| Heating .....                                                       | 1,197                          | 250              | 133                             | 25         | 91                  |
| Cooling .....                                                       | 1,356                          | 295              | 158                             | 33         | 104                 |
| <b>Office Equipment (more than one may apply)</b>                   |                                |                  |                                 |            |                     |
| Computers .....                                                     | 3,081                          | 807              | 434                             | 79         | 294                 |
| With Flat Screen Monitors .....                                     | 877                            | 330              | 166                             | 33         | 132                 |
| Dedicated Servers .....                                             | 1,175                          | 450              | 256                             | 48         | 145                 |
| Laser Printers .....                                                | 1,970                          | 446              | 243                             | 43         | 160                 |
| Inkjet Printers .....                                               | 1,420                          | 515              | 285                             | 51         | 179                 |
| FAX Machines .....                                                  | 2,715                          | 796              | 424                             | 80         | 292                 |
| Photocopiers .....                                                  | 1,939                          | 655              | 371                             | 69         | 215                 |

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|                                                                                |                                | All Office       | Administrative/ Professional | Government | All Other Office |
| <b>All Buildings.....</b>                                                      | 4,645                          | 824              | 442                          | 84         | 298              |
| <b>Number of Computers</b>                                                     |                                |                  |                              |            |                  |
| None .....                                                                     | 1,565                          | Q                | Q                            | Q          | Q                |
| 1 to 4 .....                                                                   | 1,670                          | 263              | 136                          | Q          | 108              |
| 5 to 9 .....                                                                   | 559                            | 194              | 105                          | Q          | 73               |
| 10 to 19 .....                                                                 | 370                            | 145              | 77                           | Q          | 55               |
| 20 to 49 .....                                                                 | 255                            | 116              | 61                           | 21         | 35               |
| 50 to 99 .....                                                                 | 110                            | 45               | 29                           | Q          | 11               |
| 100 to 249 .....                                                               | 79                             | 27               | 16                           | Q          | 7                |
| 250 or More .....                                                              | 38                             | 17               | 9                            | 2          | 5                |
| <b>Number of Dedicated Servers</b>                                             |                                |                  |                              |            |                  |
| None .....                                                                     | 3,471                          | 374              | 186                          | 36         | 153              |
| 1 to 4 .....                                                                   | 1,060                          | 382              | 218                          | 41         | 123              |
| 5 to 9 .....                                                                   | 58                             | 29               | 17                           | Q          | 8                |
| 10 to 19 .....                                                                 | 30                             | 20               | 10                           | Q          | 9                |
| 20 to 49 .....                                                                 | 17                             | 9                | 6                            | Q          | 3                |
| 50 or More .....                                                               | 10                             | 8                | 6                            | Q          | 1                |
| <b>Number of Photocopiers</b>                                                  |                                |                  |                              |            |                  |
| None .....                                                                     | 2,706                          | 169              | 72                           | Q          | 83               |
| One .....                                                                      | 1,250                          | 337              | 174                          | 35         | 129              |
| 2 to 4 .....                                                                   | 549                            | 241              | 153                          | 26         | 63               |
| 5 to 9 .....                                                                   | 85                             | 41               | 22                           | Q          | 14               |
| 10 or More .....                                                               | 54                             | 36               | 22                           | 4          | 9                |
| <b>Energy Related Space Functions<br/>(more than one may apply)</b>            |                                |                  |                              |            |                  |
| Commercial Food Preparation .....                                              | 799                            | 23               | 11                           | 6          | 6                |
| Activities with Large<br>Amounts of Hot Water .....                            | 567                            | 36               | 21                           | 5          | 10               |
| Separate Computer Area .....                                                   | 553                            | 201              | 119                          | 31         | 52               |
| <b>HVAC Conservation Features<br/>(more than one may apply)</b>                |                                |                  |                              |            |                  |
| Variable Air Volume System .....                                               | 466                            | 114              | 55                           | 15         | 45               |
| Economizer Cycle .....                                                         | 508                            | 124              | 65                           | 16         | 44               |
| HVAC Maintenance .....                                                         | 2,581                          | 571              | 310                          | 61         | 200              |
| Energy Management and<br>Control System (EMCS) .....                           | 252                            | 51               | 24                           | 10         | 17               |
| <b>Window and Interior Lighting<br/>Features (more than one<br/>may apply)</b> |                                |                  |                              |            |                  |
| Multipaned Windows .....                                                       | 2,201                          | 479              | 239                          | 62         | 179              |
| Tinted Window Glass .....                                                      | 1,323                          | 268              | 127                          | 31         | 110              |
| Reflective Window Glass .....                                                  | 308                            | 73               | 38                           | 5          | 30               |
| External Overhangs<br>or Awnings .....                                         | 1,233                          | 242              | 106                          | 22         | 114              |
| Skylights or Atriums .....                                                     | 331                            | 66               | 36                           | 6          | 24               |
| Daylighting Sensors .....                                                      | 74                             | 17               | 10                           | Q          | Q                |
| Specular Reflectors .....                                                      | 928                            | 219              | 111                          | 25         | 83               |
| Electronic Ballasts .....                                                      | 2,577                          | 507              | 267                          | 59         | 181              |
| Energy Management and<br>Control System (EMCS)<br>For Lighting .....           | 60                             | 12               | 6                            | Q          | Q                |

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|                                                                                                |                                | All Office       | Administrative/<br>Professional | Government | All Other Office |
| <b>All Buildings.....</b>                                                                      | 4,645                          | 824              | 442                             | 84         | 298              |
| <b>Equipment Usage Reduced<br/>When Building Not In Full Use<br/>(more than one may apply)</b> |                                |                  |                                 |            |                  |
| Heating .....                                                                                  | 2,878                          | 539              | 309                             | 57         | 173              |
| Cooling .....                                                                                  | 2,761                          | 570              | 320                             | 61         | 190              |
| Lighting .....                                                                                 | 3,685                          | 766              | 404                             | 81         | 282              |
| Office Equipment .....                                                                         | 1,504                          | 371              | 178                             | 33         | 160              |

\* Data in this column do not include enclosed malls and strip malls.

N=No responding cases in sample.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Notes: • Due to rounding, data may not sum to totals. • HVAC = Heating, Ventilation, and Air Conditioning.

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