Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) | Total (trillion Btu) | Total (million dollars) |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |
| Building floorspace (square feet) |  |  |  |  |  |
| 1,001 to 5,000 | 2,777 | 8,041 | 2.9 | 723 | 16,343 |
| 5,001 to 10,000 | 1,229 | 8,900 | 7.2 | 646 | 14,230 |
| 10,001 to 25,000 | 884 | 14,105 | 16.0 | 876 | 19,921 |
| 25,001 to 50,000 | 332 | 11,917 | 35.9 | 823 | 17,299 |
| 50,001 to 100,000 | 199 | 13,918 | 69.9 | 1,067 | 22,523 |
| 100,001 to 200,000 | 90 | 12,415 | 137.9 | 1,035 | 21,907 |
| 200,001 to 500,000 | 38 | 10,724 | 284.2 | 1,026 | 20,880 |
| Over 500,000 | 8 | 7,074 | 885.0 | 767 | 15,956 |
| Principal building activity |  |  |  |  |  |
| Education | 389 | 12,239 | 31.5 | 842 | 16,819 |
| Food sales | 177 | 1,252 | 7.1 | 262 | 6,167 |
| Food service | 380 | 1,819 | 4.8 | 514 | 9,956 |
| Health care | 157 | 4,155 | 26.5 | 718 | 13,072 |
| Inpatient | 10 | 2,374 | 247.8 | 549 | 9,373 |
| Outpatient | 147 | 1,781 | 12.1 | 169 | 3,699 |
| Lodging | 158 | 5,826 | 36.9 | 564 | 10,997 |
| Mercantile | 602 | 11,330 | 18.8 | 1,008 | 22,704 |
| Retail (other than mall) | 438 | 5,439 | 12.4 | 364 | 8,982 |
| Enclosed and strip malls | 164 | 5,890 | 35.9 | 644 | 13,722 |
| Office | 1,012 | 15,952 | 15.8 | 1,241 | 30,781 |
| Public assembly | 352 | 5,559 | 15.8 | 480 | 10,217 |
| Public order and safety | 84 | 1,440 | 17.2 | 133 | 2,766 |
| Religious worship | 412 | 4,557 | 11.1 | 173 | 3,338 |
| Service | 619 | 4,630 | 7.5 | 272 | 5,614 |
| Warehouse and storage | 796 | 13,077 | 16.4 | 429 | 9,696 |
| Other | 125 | 2,002 | 16.0 | 286 | 5,958 |
| Vacant | 296 | 3,256 | 11.0 | 41 | 974 |
| Year constructed |  |  |  |  |  |
| Before 1920 | 362 | 3,983 | 11.0 | 238 | 5,194 |
| 1920 to 1945 | 488 | 6,025 | 12.3 | 418 | 9,699 |
| 1946 to 1959 | 599 | 7,381 | 12.3 | 537 | 11,016 |
| 1960 to 1969 | 639 | 10,362 | 16.2 | 902 | 18,387 |
| 1970 to 1979 | 684 | 10,846 | 15.9 | 1,012 | 20,601 |
| 1980 to 1989 | 915 | 15,230 | 16.6 | 1,164 | 26,174 |
| 1990 to 1999 | 845 | 13,803 | 16.3 | 1,102 | 23,763 |
| 2000 to 2003 | 375 | 7,215 | 19.2 | 579 | 12,599 |
| 2004 to 2007 | 347 | 6,524 | 18.8 | 528 | 11,308 |
| 2008 to 2012 | 303 | 5,723 | 18.9 | 484 | 10,318 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  | Sum of major | Sum of major |
| :--- | :--- | :--- | :--- |
| fuel |  |  |  |

Elevators and escalators

| Any elevators | 405 | 32,120 | 79.3 | 3,183 | 66,070 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of elevators |  |  |  |  |  |
| One | 272 | 11,158 | 41.1 | 884 | 17,859 |
| Two to five | 118 | 12,817 | 109.0 | 1,242 | 26,106 |
| Six or more | 16 | 8,145 | 506.8 | 1,058 | 22,105 |
| Any escalators | 10 | 3,654 | 377.5 | 377 | 8,114 |

Number of workers (main shift)

| Fewer than 5 | 2,892 | 17,751 | 6.1 | 756 | 16,883 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5 to 9 | 1,085 | 8,973 | 8.3 | 598 | 13,631 |
| 10 to 19 | 731 | 9,623 | 13.2 | 772 | 16,355 |
| 20 to 49 | 513 | 14,514 | 28.3 | 1,188 | 25,414 |
| 50 to 99 | 206 | 13,476 | 65.6 | 1,150 | 23,977 |
| 100 to 249 | 93 | 10,941 | 117.1 | 1,058 | 21,742 |
| 250 or more | 37 | 11,815 | 318.3 | 1,441 | 31,057 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) | Total (trillion Btu) | Total (million dollars) |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |
| Weekly operating hours |  |  |  |  |  |
| Fewer than 40 | 1,149 | 8,220 | 7.2 | 229 | 4,800 |
| 40 to 48 | 1,346 | 15,828 | 11.8 | 832 | 19,174 |
| 49 to 60 | 1,244 | 20,529 | 16.5 | 1,258 | 28,917 |
| 61 to 84 | 764 | 15,867 | 20.8 | 1,370 | 30,071 |
| 85 to 167 | 479 | 9,395 | 19.6 | 1,098 | 22,874 |
| Open continuously | 575 | 17,253 | 30.0 | 2,177 | 43,224 |
| Ownership and occupancy |  |  |  |  |  |
| Nongovernment owned | 4,781 | 67,550 | 14.1 | 5,375 | 116,648 |
| Owner occupied | 2,466 | 30,637 | 12.4 | 2,615 | 53,282 |
| Leased to tenant(s) | 1,745 | 26,115 | 15.0 | 2,041 | 47,461 |
| Owner occupied and leased | 349 | 8,873 | 25.4 | 709 | 15,672 |
| Unoccupied | 221 | 1,925 | 8.7 | 10 | 233 |
| Government owned | 776 | 19,543 | 25.2 | 1,588 | 32,411 |
| Federal | 33 | 1,573 | 47.7 | 137 | 3,098 |
| State | 185 | 5,539 | 30.0 | 555 | 10,649 |
| Local | 558 | 12,431 | 22.3 | 896 | 18,664 |


| Party responsible for operation and maintenance of energy systems |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Building owner | 4,715 | 73,702 | 15.6 | 5,808 | 123,188 |
| Business owner or tenant | 724 | 11,309 | 15.6 | 983 | 21,926 |
| Property management | 54 | 1,250 | 23.0 | 96 | 2,229 |
| Other | 64 | 832 | 12.9 | 75 | 1,715 |

Provider of direct input on energy-
related equipment purchases

| Building owner | 4,876 | 76,271 | 15.6 | 5,984 | 127,298 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Business owner or tenant |  | 540 | 8,256 | 15.3 | 766 |
| Property management |  | 35 | 880 | 25.5 | 16,900 |
| Other | 106 | 1,686 | 15.9 | 61 | $1,-499$ |

Number of establishments

| One | 4,205 | 54,994 | 13.1 | 4,485 | 93,466 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 to 5 | 862 | 17,756 | 20.6 | 1,400 | 30,532 |
| 6 to 10 | 147 | 4,425 | 30.1 | 364 | 8,231 |
| 11 to 20 | 68 | 3,704 | 54.8 | 355 | 8,081 |
| More than 20 | 27 | 3,821 | 140.9 | 347 | 8,483 |
| Currently unoccupied | 248 | 2,393 | 9.6 | 13 | 266 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) | Total (trillion Btu) | Total (million dollars) |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |
| Predominant exterior wall material |  |  |  |  |  |
| Brick, stone, or stucco | 2,312 | 40,463 | 17.5 | 3,457 | 72,280 |
| Concrete (block or poured) | 1,121 | 20,726 | 18.5 | 1,720 | 37,773 |
| Concrete panels | 210 | 8,693 | 41.4 | 664 | 14,004 |
| Siding or shingles | 905 | 5,750 | 6.4 | 400 | 9,387 |
| Metal panels | 933 | 8,673 | 9.3 | 428 | 9,203 |
| Window glass | 17 | 1,340 | 78.6 | 170 | 3,634 |
| Other | 37 | 856 | 23.0 | 79 | 1,813 |
| No one major type | 21 | 592 | 27.6 | 45 | 965 |
| Predominant roof material |  |  |  |  |  |
| Metal surfacing | 1,672 | 15,916 | 9.5 | 865 | 19,379 |
| Synthetic or rubber | 911 | 25,817 | 28.3 | 2,442 | 49,992 |
| Built-up | 836 | 21,835 | 26.1 | 1,862 | 39,989 |
| Slate or tile shingles | 406 | 4,306 | 10.6 | 371 | 8,128 |
| Wooden materials (including shingles) | 157 | 1,139 | 7.3 | 92 | 1,885 |
| Asphalt, fiberglass, or other shingles | 1,483 | 15,104 | 10.2 | 1,105 | 24,366 |
| Concrete | 51 | 1,642 | 32.2 | 132 | 3,275 |
| Other | 24 | 678 | 28.6 | 58 | 1,259 |
| No one major type | 18 | 657 | 36.4 | 35 | 787 |
| Roof characteristics |  |  |  |  |  |
| Roof tilt |  |  |  |  |  |
| Flat | 1,960 | 49,623 | 25.3 | 4,476 | 94,637 |
| Shallow pitch | 2,148 | 23,853 | 11.1 | 1,597 | 35,264 |
| Steeper pitch | 1,449 | 13,617 | 9.4 | 890 | 19,158 |
| Cool roof | 740 | 19,630 | 26.5 | 1,837 | 38,636 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total floorspace (million square feet) | Floorspace per building (thousand square feet) | Total (trillion Btu) | Total (million dollars) |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |

## Renovations in buildings

constructed before 2008
(more than one may apply)

| Any type of renovation | 2,094 | 42,216 | 20.2 | 3,762 | 79,130 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Addition or annex | 444 | 13,022 | 29.3 | 1,292 | 24,824 |
| Reduction in floorspace | 71 | 1,753 | 24.6 | 226 | 4,708 |
| Roof replacement | 987 | 20,917 | 21.2 | 1,986 | 40,812 |
| Exterior wall replacement | 194 | 4,230 | 21.8 | 399 | 8,144 |
| Interior wall reconfiguration | 889 | 21,340 | 24.0 | 2,056 | 43,350 |
| Window replacement | 560 | 12,265 | 21.9 | 1,090 | 22,649 |
| HVAC equipment upgrade | 1,101 | 26,779 | 24.3 | 2,545 | 53,298 |
| Lighting upgrade | 982 | 25,503 | 26.0 | 2,440 | 50,024 |
| Electrical upgrade | 747 | 16,160 | 21.6 | 1,608 | 33,090 |
| Plumbing system upgrade | 644 | 13,828 | 21.5 | 1,397 | 28,545 |
| Insulation upgrade | 382 | 7,607 | 19.9 | 771 | 15,243 |
| Fire, safety, or security upgrade | 616 | 17,196 | 27.9 | 1,685 | 35,026 |
| Structural upgrade | 152 | 3,913 | 25.8 | 424 | 8,258 |
| Other | 39 | 848 | 21.7 | 69 | 1,701 |
| No renovations | 3,160 | 39,154 | 12.4 | 2,718 | 59,611 |
| Buildings constructed 2008 or later | 303 | 5,723 | 18.9 | 484 | 10,318 |

Energy sources
(more than one may apply)

| Electricity | 5,234 | 84,869 | 16.2 | 6,963 | 149,059 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural gas | 2,933 | 58,725 | 20.0 | 5,544 | 109,664 |
| Fuel oil | 467 | 20,200 | 43.3 | 2,231 | 47,354 |
| District heat | 48 | 5,964 | 124.9 | 808 | 17,326 |
| District chilled water | 54 | 4,608 | 85.4 | 665 | 12,725 |
| Propane | 510 | 7,706 | 15.1 | 583 | 13,179 |
| Other | 172 | 3,826 | 22.2 | 301 | 6,452 |

## Space-heating energy sources

(more than one may apply)

| Electricity | 2,858 | 49,030 | 17.2 | 3,898 | 86,351 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural gas | 2,612 | 49,511 | 19.0 | 4,446 | 85,944 |
| Fuel oil | 270 | 4,351 | 16.1 | 360 | 8,473 |
| District heat | 48 | 5,925 | 124.3 | 804 | 17,232 |
| Propane | 342 | 3,067 | 9.0 | 151 | 3,604 |
| Other | 101 | 1,010 | 10.0 | 48 | 1,162 |

Primary space-heating
energy source

| Electricity | 1,819 | 26,205 | 14.4 | 1,846 | 45,007 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural gas | 2,322 | 42,988 | 18.5 | 3,871 | 74,273 |
| Fuel oil | 205 | 2,542 | 12.4 | 187 | 5,022 |
| District heat | 47 | 5,797 | 122.9 | 794 | 17,056 |
| Propane | 261 | 1,948 | 7.5 | 63 | 1,663 |
| Other | 67 | 598 | 8.9 | 21 | 583 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) | $\begin{array}{r} \text { Total } \\ \text { (trillion } \\ \text { Btu) } \end{array}$ |  |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |

Cooling energy sources
(more than one may apply)

| Electricity | 4,413 | 76,034 | 17.2 | 6,322 | 136,319 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural gas | 12 | 732 | 61.5 | 97 | 1,627 |
| District chilled water | 54 | 4,608 | 85.4 | 665 | 12,725 |

Water-heating energy sources
(more than one may apply)

| Electricity | 2,658 | 42,755 | 16.1 | 3,102 | 72,423 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural gas | 1,758 | 39,523 | 22.5 | 4,029 | 77,507 |
| Fuel oil | 77 | 1,911 | 24.7 | 174 | 4,349 |
| District heat | 25 | 4,551 | 179.7 | 652 | 13,755 |
| Propane | 142 | 1,575 | 11.1 | 87 | 2,562 |

## Cooking energy sources

(more than one may apply)

| Electricity | 1,010 | 25,151 | 24.9 | 2,511 | 52,305 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural gas | 740 | 24,770 | 33.5 | 3,015 | 58,012 |
| Propane | 144 | 2,001 | 13.9 | 167 | 4,512 |

## Energy end uses

| Buildings with space heating | 4,722 | 80,078 | 17.0 | 6,782 | 143,605 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Buildings with cooling | 4,461 | 79,294 | 17.8 | 6,774 | 144,768 |
| Buildings with water heating | 4,423 | 79,015 | 17.9 | 6,798 | 144,637 |
| Buildings with cooking | 1,589 | 38,546 | 24.3 | 4,079 | 83,495 |
| Buildings with manufacturing | 259 | 5,078 | 19.6 | 360 | 7,891 |
| Buildings with electricity generation | 410 | 25,642 | 62.5 | 2,803 | 57,892 |

## Percent of floorspace heated

| Not heated | 835 | 7,015 | 8.4 | 181 | 5,454 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 to 50 | 697 | 10,130 | 14.5 | 468 | 11,572 |
| 51 to 99 | 727 | 14,650 | 20.2 | 1,298 | 28,357 |
| 100 | 3,298 | 55,298 | 16.8 | 5,016 | 103,676 |

Percent of floorspace cooled

| Not cooled | 1,096 | 7,799 | 7.1 | 189 | 4,291 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 to 50 | 1,173 | 18,891 | 16.1 | 989 | 20,397 |
| 51 to 99 | 897 | 22,728 | 25.3 | 2,143 | 46,520 |
| 100 | 2,391 | 37,676 | 15.8 | 3,642 | 77,851 |

Percent lit when open

| Zero | 70 | 322 | 4.6 | 4 | 135 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 to 50 | 1,099 | 12,628 | 11.5 | 642 | 13,891 |
| 51 to 99 | 1,666 | 34,814 | 20.9 | 3,049 | 63,760 |
| 100 | 2,222 | 35,726 | 16.1 | 3,244 | 70,791 |
| Building never open/electricity not used | 501 | 3,603 | 7.2 | 24 | 482 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) | Total (trillion Btu) | Total (million dollars) |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |
| Percent lit during off hours |  |  |  |  |  |
| Zero | 2,489 | 24,746 | 9.9 | 1,293 | 30,433 |
| 1 to 50 | 2,441 | 50,753 | 20.8 | 4,346 | 91,998 |
| 51 to 100 | 202 | 6,926 | 34.3 | 1,018 | 19,923 |
| Building always open with no "off hours" | 102 | 2,443 | 23.9 | 306 | 6,705 |
| Electricity not used | 323 | 2,225 | 6.9 | N | N |
| Heating equipment (more than one may apply) |  |  |  |  |  |
| Heat pumps | 628 | 11,846 | 18.9 | 899 | 20,389 |
| Furnaces | 755 | 8,654 | 11.5 | 615 | 12,617 |
| Individual space heaters | 1,247 | 20,766 | 16.6 | 1,572 | 33,023 |
| District heat | 48 | 5,925 | 124.3 | 804 | 17,232 |
| Boilers | 544 | 22,443 | 41.3 | 2,262 | 43,404 |
| Packaged heating units | 2,802 | 49,188 | 17.6 | 4,083 | 86,846 |
| Other | 62 | 1,574 | 25.5 | 191 | 3,924 |

Cooling equipment
(more than one may apply)

| Residential-type central air conditioners | 1,546 | 14,765 | 9.5 | 1,086 | 23,162 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Heat pumps | 692 | 12,538 | 18.1 | 939 | 21,321 |
| Individual air conditioners | 709 | 12,420 | 17.5 | 1,013 | 21,552 |
| District chilled water | 54 | 4,608 | 85.4 | 665 | 12,725 |
| Central chillers | 163 | 17,041 | 104.6 | 1,853 | 38,074 |
| Packaged air conditioning units | 1,909 | 45,153 | 23.6 | 3,972 | 84,882 |
| Swamp coolers | 109 | 1,918 | 17.5 | 176 | 3,620 |
| Other | Q | 328 | Q | 45 | 1,009 |

Main equipment replaced since
1990 (more than one may apply)

| Heating | 1,874 | 27,558 | 14.7 | 2,164 | 45,544 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cooling |  |  |  |  |  |

Water-heating equipment

| Centralized system | 3,348 | 47,534 | 14.2 | 4,210 |
| :--- | :---: | :---: | :---: | :---: |
| Distributed system | 690 | 12,688 | 18.4 | 88,167 |
| Combination of centralized and <br> distributed system |  | 385 | 18,793 | 48 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) | Total (trillion Btu) | $\begin{aligned} & \text { Total } \\ & \text { (million } \\ & \text { dollars) } \end{aligned}$ |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |

Lighting equipment types

| Incandescent | 1,826 | 38,406 | 21.0 | 3,540 | 72,871 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Standard fluorescent | 4,649 | 80,081 | 17.2 | 6,714 | 143,245 |
| Compact fluorescent | 2,302 | 53,816 | 23.4 | 5,094 | 106,552 |
| High-intensity discharge (HID) | 525 | 23,396 | 44.5 | 2,187 | 45,359 |
| Halogen | 905 | 28,059 | 31.0 | 2,695 | 56,323 |
| LED | 473 | 22,071 | 46.6 | 2,363 | 49,526 |
| Other | 10 | 446 | 45.2 | 59 | 1,288 |

## Refrigeration equipment

| Any refrigeration | 3,984 | 73,645 | 18.5 | 6,471 | 137,069 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Walk-in units | 811 | 28,361 | 35.0 | 3,525 | 71,295 |
| Cases or cabinets | 915 | 28,719 | 31.4 | 3,316 | 68,861 |
| Large cold storage areas | 78 | 4,171 | 53.4 | 530 | 10,736 |
| Commercial ice makers | 846 | 32,734 | 38.7 | 3,731 | 75,848 |
| Residential-type or compact units | 3,388 | 62,381 | 18.4 | 5,183 | 109,536 |
| Vending machines | 960 | 43,936 | 45.8 | 4,178 | 87,026 |
| No refrigeration | 1,573 | 13,448 | 8.5 | 492 | 11,990 |

## Office equipment

(more than one may apply)

| Desktop computers | 3,977 | 77,063 | 19.4 | 6,586 | 140,644 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| With flat screen monitors | 3,847 | 76,160 | 19.8 | 6,523 | 139,323 |
| With multiple monitors | 911 | 30,946 | 34.0 | 2,942 | 62,497 |
| Laptop computers | 2,730 | 63,486 | 23.3 | 5,466 | 116,037 |
| Dedicated servers | 1,748 | 53,369 | 30.5 | 4,784 | 102,388 |
| Laser printers | 2,339 | 54,256 | 23.2 | 4,795 | 101,943 |
| Inkjet printers | 2,187 | 36,235 | 16.6 | 2,903 | 63,200 |
| FAX machines | 3,185 | 66,682 | 20.9 | 5,706 | 122,287 |
| Photocopiers | 2,163 | 59,277 | 27.4 | 5,110 | 108,985 |
| Number of desktop computers |  |  |  |  |  |
| None | 1,581 | 10,030 | 6.3 | 377 | 8,415 |
| 1 to 4 | 2,039 | 15,669 | 7.7 | 1,184 | 25,282 |
| 5 to 9 | 821 | 9,422 | 11.5 | 738 | 15,649 |
| 10 to 19 | 482 | 9,388 | 19.5 | 676 | 15,507 |
| 20 to 49 | 355 | 13,094 | 36.9 | 1,121 | 23,764 |
| 50 to 99 | 143 | 8,284 | 57.8 | 645 | 13,985 |
| 100 to 249 | 92 | 9,728 | 105.6 | 961 | 19,760 |
| 250 or more | 44 | 11,478 | 258.3 | 1,261 | 26,697 |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  | Sum of major |
| :--- | :--- | :--- | :--- |
| fuel | Sum of major |  |
| fuel |  |  |

Food preparation or serving areas
in non-food service buildings
(more than one may apply)

| Snack bar or concession stand | 153 | 9,884 | 64.6 | 1,112 |
| :--- | :--- | :--- | :--- | :--- |
| Fast food or small restaurant | 173 | 9,787 | 56.5 | 1,206 |
| Cafeteria or large restaurant | 130 | 15,222 | 117.1 | 25,388 |
| Commercial kitchen/ |  | 282 | 16,150 | 1,624 |
| food preparation area |  | 736 | 14,054 | 32,102 |
| Small kitchen area |  |  |  |  |

Table C3. Sum of major fuel consumption and expenditures, 2012

|  |  |  | All buildings | Sum of major fuel consumption | Sum of major fuel expenditures |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of buildings (thousand) | Total <br> floorspace (million square feet) | Floorspace per building (thousand square feet) |  |  |
| All buildings | 5,557 | 87,093 | 15.7 | 6,963 | 149,059 |

Separate computer areas (more than one may apply)

| Data center or server farm | 97 | 11,105 | 115.1 | 1,356 | 28,418 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Computer-based training room | 244 | 17,723 | 72.7 | 1,696 | 35,069 |
| Student or public computer center | 238 | 14,341 | 60.1 | 1,275 | 24,649 |

HVAC conservation features

| Economizer cycle | 601 | 30,749 | 51.2 | 3,142 | 64,942 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Regular HVAC maintenance | 3,178 | 69,244 | 21.8 | 6,203 | 131,733 |
| Building automation system (BAS) ${ }^{2}$ | 781 | 37,051 | 47.5 | 3,709 | 78,304 |


| Window and interior lighting features (more than one may apply) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Multipaned windows | 3,012 | 60,362 | 20.0 | 5,250 | 109,145 |
| Tinted window glass | 1,875 | 45,025 | 24.0 | 3,973 | 83,408 |
| Reflective window glass | 549 | 15,908 | 29.0 | 1,652 | 34,327 |
| External overhangs or awnings | 1,867 | 32,188 | 17.2 | 3,089 | 64,414 |
| Skylights or atriums | 591 | 22,261 | 37.6 | 2,010 | 41,021 |
| Light scheduling | 918 | 30,263 | 33.0 | 2,930 | 63,371 |
| Occupancy sensors | 813 | 35,871 | 44.1 | 3,434 | 72,679 |
| Multi-level lighting or dimming | 349 | 14,534 | 41.7 | 1,618 | 32,911 |
| Daylight harvesting | 125 | 6,114 | 48.8 | 619 | 13,036 |
| Demand responsive lighting | 176 | 4,738 | 26.9 | 410 | 9,636 |
| Building automation system (BAS) for |  |  |  |  |  |
| lighting ${ }^{2}$ | 208 | 12,068 | 57.9 | 1,201 | 26,570 |

Equipment usage reduced when
building not in full use
(more than one may apply)

| Heating | 3,699 | 63,167 | 17.1 | 5,022 |
| :--- | :--- | :--- | :--- | :--- |
| Cooling | 3,517 | 62,516 | 17.8 | 5,008 |
| Lighting |  | 4,757 | 78,594 | 108,878 |

[^0]
[^0]:    ${ }^{1}$ These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).
    ${ }^{2}$ In earlier CBECS publications, BAS was referred to as Energy Management and Control System (EMCS).
    $\mathrm{Q}=$ Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.
    $\mathrm{N}=$ No cases in reporting sample.
    Notes: - Because of rounding, data may not sum to totals. - See the Guide to the 2012 CBECS Detailed Tables or CBECS Terminology for definitions of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from http://www.eia.gov/consumption/commercial/data/2012/. • Statistics for the Energy end uses category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. $\bullet$ HVAC $=$ Heating, ventilation, and air conditioning.

    Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-871A, C, D, E, and F of the 2012 Commercial Buildings Energy Consumption Survey.

