Release date: February 2015
Revised date: December 2016

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Building floorspace (square feet)** | | | | | | |
| 1,001 to 5,000 | 2,777 | 8,041 | 10,232 | 2.9 | 675 | 56 |
| 5,001 to 10,000 | 1,229 | 8,900 | 9,225 | 7.2 | 847 | 62 |
| 10,001 to 25,000 | 884 | 14,105 | 14,189 | 16.0 | 925 | 65 |
| 25,001 to 50,000 | 332 | 11,917 | 11,327 | 35.9 | 1,006 | 72 |
| 50,001 to 100,000 | 199 | 13,918 | 12,345 | 69.9 | 1,089 | 80 |
| 100,001 to 200,000 | 90 | 12,415 | 11,310 | 137.9 | 1,083 | 89 |
| 200,001 to 500,000 | 38 | 10,724 | 10,356 | 284.2 | 1,024 | 99 |
| Over 500,000 | 8 | 7,074 | 9,196 | 885.0 | 763 | 117 |
| **Principal building activity** | | | | | | |
| Education | 389 | 12,239 | 10,885 | 31.5 | 1,124 | 53 |
| Food sales | 177 | 1,252 | 1,172 | 7.1 | 1,067 | 121 |
| Food service | 380 | 1,819 | 3,431 | 4.8 | 530 | 82 |
| Health care | 157 | 4,155 | 7,613 | 26.5 | 546 | 60 |
| Inpatient | 10 | 2,374 | 4,281 | 247.8 | 555 | 168 |
| Outpatient | 147 | 1,781 | 3,333 | 12.1 | 535 | 53 |
| Lodging | 158 | 5,826 | 3,066 | 36.9 | 1,894 | 165 |
| Mercantile | 602 | 11,330 | 9,117 | 18.8 | 1,243 | 64 |
| Retail (other than mall) | 438 | 5,439 | 4,023 | 12.4 | 1,352 | 62 |
| Enclosed and strip malls | 164 | 5,890 | 5,094 | 35.9 | 1,156 | 69 |
| Office | 1,012 | 15,952 | 33,756 | 15.8 | 473 | 55 |
| Public assembly | 352 | 5,559 | 3,108 | 15.8 | 1,716 | 56 |
| Public order and safety | 84 | 1,440 | 1,854 | 17.2 | 756 | 113 |
| Religious worship | 412 | 4,557 | 1,940 | 11.1 | 2,295 | 31 |
| Service | 619 | 4,630 | 4,031 | 7.5 | 1,086 | 56 |
| Warehouse and storage | 796 | 13,077 | 6,362 | 16.4 | 1,843 | 67 |
| Other | 125 | 2,002 | 1,611 | 16.0 | 1,193 | 61 |
| Vacant | 296 | 3,256 | 236 | 11.0 | 3,309 | 8 |
| **Year constructed** | | | | | | |
| Before 1920 | 362 | 3,983 | 3,310 | 11.0 | 1,087 | 48 |
| 1920 to 1945 | 488 | 6,025 | 6,003 | 12.3 | 936 | 52 |
| 1946 to 1959 | 599 | 7,381 | 6,566 | 12.3 | 1,064 | 51 |
| 1960 to 1969 | 639 | 10,362 | 9,851 | 16.2 | 1,010 | 61 |
| 1970 to 1979 | 684 | 10,846 | 12,536 | 15.9 | 817 | 61 |
| 1980 to 1989 | 915 | 15,230 | 17,468 | 16.6 | 830 | 65 |
| 1990 to 1999 | 845 | 13,803 | 13,432 | 16.3 | 947 | 68 |
| 2000 to 2003 | 375 | 7,215 | 7,471 | 19.2 | 951 | 66 |
| 2004 to 2007 | 347 | 6,524 | 5,993 | 18.8 | 1,065 | 69 |
| 2008 to 2012 | 303 | 5,723 | 5,552 | 18.9 | 978 | 76 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Census region and division** | | | | | | |
| Northeast | 805 | 15,534 | 17,775 | 19.3 | 844 | 64 |
| New England | 302 | 4,302 | 4,165 | 14.3 | 967 | 60 |
| Middle Atlantic | 504 | 11,232 | 13,610 | 22.3 | 806 | 67 |
| Midwest | 1,237 | 18,919 | 17,261 | 15.3 | 1,036 | 61 |
| East North Central | 735 | 12,742 | 11,933 | 17.3 | 1,019 | 62 |
| West North Central | 502 | 6,178 | 5,329 | 12.3 | 1,075 | 59 |
| South | 2,247 | 34,279 | 32,666 | 15.3 | 984 | 61 |
| South Atlantic | 1,091 | 17,981 | 18,098 | 16.5 | 950 | 65 |
| East South Central | 370 | 4,904 | 4,293 | 13.3 | 1,090 | 55 |
| West South Central | 786 | 11,394 | 10,275 | 14.5 | 1,001 | 59 |
| West | 1,267 | 18,360 | 20,479 | 14.5 | 855 | 61 |
| Mountain | 338 | 4,981 | 4,600 | 14.7 | 1,002 | 61 |
| Pacific | 929 | 13,379 | 15,878 | 14.4 | 812 | 61 |
| **Climate region[2]** | | | | | | |
| Very cold/Cold | 2,031 | 31,898 | 30,739 | 15.7 | 983 | 62 |
| Mixed-humid | 1,743 | 27,873 | 28,708 | 16.0 | 931 | 60 |
| Mixed-dry/Hot-dry | 837 | 12,037 | 13,056 | 14.4 | 875 | 59 |
| Hot-humid | 799 | 12,831 | 12,541 | 16.1 | 946 | 68 |
| Marine | 147 | 2,454 | 3,138 | 16.7 | 742 | 67 |
| **Number of floors** | | | | | | |
| One | 3,836 | 39,809 | 35,019 | 10.4 | 1,042 | 60 |
| Two | 1,158 | 20,206 | 19,744 | 17.5 | 991 | 60 |
| Three | 374 | 8,140 | 7,826 | 21.8 | 1,013 | 69 |
| Four to nine | 177 | 13,535 | 16,248 | 76.6 | 812 | 84 |
| Ten or more | 13 | 5,404 | 9,343 | 429.2 | 574 | 108 |
| **Elevators and escalators (more than one may apply)** | | | | | | |
| Any elevators | 405 | 32,120 | 39,978 | 79.3 | 792 | 81 |
| Number of elevators | | | | | | |
| One | 272 | 11,158 | 11,347 | 41.1 | 970 | 75 |
| Two to five | 118 | 12,817 | 15,489 | 109.0 | 811 | 90 |
| Six or more | 16 | 8,145 | 13,143 | 506.8 | 616 | 114 |
| Any escalators | 10 | 3,654 | 4,822 | 377.5 | 753 | 97 |
| **Number of workers (main shift)** | | | | | | |
| Fewer than 5 | 2,892 | 17,751 | 5,064 | 6.1 | 2,607 | 55 |
| 5 to 9 | 1,085 | 8,973 | 7,017 | 8.3 | 1,279 | 63 |
| 10 to 19 | 731 | 9,623 | 9,472 | 13.2 | 1,016 | 69 |
| 20 to 49 | 513 | 14,514 | 14,881 | 28.3 | 975 | 72 |
| 50 to 99 | 206 | 13,476 | 13,424 | 65.6 | 1,004 | 77 |
| 100 to 249 | 93 | 10,941 | 13,368 | 117.1 | 818 | 87 |
| 250 or more | 37 | 11,815 | 24,956 | 318.3 | 473 | 98 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Weekly operating hours** | | | | | | |
| Fewer than 40 | 1,149 | 8,220 | 3,291 | 7.2 | 1,488 | 12 |
| 40 to 48 | 1,346 | 15,828 | 17,546 | 11.8 | 894 | 42 |
| 49 to 60 | 1,244 | 20,529 | 24,845 | 16.5 | 818 | 54 |
| 61 to 84 | 764 | 15,867 | 16,679 | 20.8 | 945 | 74 |
| 85 to 167 | 479 | 9,395 | 8,087 | 19.6 | 1,145 | 105 |
| Open continuously | 575 | 17,253 | 17,734 | 30.0 | 937 | 168 |
| **Ownership and occupancy** | | | | | | |
| Nongovernment owned | 4,781 | 67,550 | 68,505 | 14.1 | 930 | 62 |
| Owner occupied | 2,466 | 30,637 | 25,871 | 12.4 | 1,150 | 62 |
| Leased to tenant(s) | 1,745 | 26,115 | 32,033 | 15.0 | 787 | 69 |
| Owner occupied and leased | 349 | 8,873 | 10,601 | 25.4 | 825 | 64 |
| Unoccupied | 221 | 1,925 | 0 | 8.7 | N | 0 |
| Government owned | 776 | 19,543 | 19,676 | 25.2 | 957 | 60 |
| Federal | 33 | 1,573 | 2,135 | 47.7 | 732 | 64 |
| State | 185 | 5,539 | 5,579 | 30.0 | 962 | 58 |
| Local | 558 | 12,431 | 11,963 | 22.3 | 996 | 61 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | |
| Building owner | 4,715 | 73,702 | 74,433 | 15.6 | 934 | 61 |
| Business owner or tenant | 724 | 11,309 | 11,128 | 15.6 | 987 | 66 |
| Property management | 54 | 1,250 | 1,757 | 23.0 | 690 | 66 |
| Other | 64 | 832 | 864 | 12.9 | 944 | 58 |
| **Provider of direct input on energy-related equipment purchases** | | | | | | |
| Building owner | 4,876 | 76,271 | 76,830 | 15.6 | 936 | 61 |
| Business owner or tenant | 540 | 8,256 | 8,617 | 15.3 | 938 | 68 |
| Property management | 35 | 880 | 954 | 25.5 | 909 | 74 |
| Other | 106 | 1,686 | 1,781 | 15.9 | 926 | 56 |
| **Number of establishments** | | | | | | |
| One | 4,205 | 54,994 | 52,072 | 13.1 | 1,021 | 64 |
| 2 to 5 | 862 | 17,756 | 18,916 | 20.6 | 931 | 65 |
| 6 to 10 | 147 | 4,425 | 5,890 | 30.1 | 731 | 77 |
| 11 to 20 | 68 | 3,704 | 5,276 | 54.8 | 692 | 70 |
| More than 20 | 27 | 3,821 | 6,028 | 140.9 | 630 | 84 |
| Currently unoccupied | 248 | 2,393 | 0 | 9.6 | N | 0 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Campus or complex activity** | | | | | | |
| Not part of a campus or complex | 3,683 | 52,275 | 51,924 | 14.2 | 957 | 59 |
| Primary or secondary school | 237 | 4,616 | 4,670 | 19.4 | 977 | 48 |
| College or university | 84 | 4,068 | 3,090 | 48.4 | 1,290 | 88 |
| Office complex | 154 | 3,456 | 7,205 | 22.4 | 465 | 58 |
| Retail complex | 258 | 5,159 | 4,524 | 20.0 | 1,108 | 66 |
| Storage complex | 314 | 3,212 | 726 | 10.2 | 3,076 | 89 |
| Religious campus or complex | 197 | 1,932 | 1,027 | 9.8 | 1,821 | 43 |
| Health care complex | 52 | 3,362 | 5,715 | 64.1 | 577 | 90 |
| Lodging or resort complex | 65 | 1,295 | 817 | 19.8 | 1,562 | 146 |
| Transportation complex | 35 | 554 | 681 | 15.8 | 744 | 76 |
| Government complex | 104 | 2,107 | 3,236 | 20.2 | 628 | 65 |
| Other | 371 | 5,057 | 4,566 | 13.6 | 1,036 | 55 |
| **Predominant exterior wall material** | | | | | | |
| Brick, stone, or stucco | 2,312 | 40,463 | 41,653 | 17.5 | 934 | 62 |
| Concrete (block or poured) | 1,121 | 20,726 | 20,195 | 18.5 | 1,000 | 62 |
| Concrete panels | 210 | 8,693 | 9,482 | 41.4 | 861 | 72 |
| Siding or shingles | 905 | 5,750 | 6,012 | 6.4 | 887 | 58 |
| Metal panels | 933 | 8,673 | 5,804 | 9.3 | 1,246 | 61 |
| Window glass | 17 | 1,340 | 2,652 | 78.6 | 488 | 77 |
| Other | 37 | 856 | 844 | 23.0 | 1,012 | 68 |
| No one major type | 21 | 592 | Q | 27.6 | Q | 68 |
| **Predominant roof material** | | | | | | |
| Metal surfacing | 1,672 | 15,916 | 12,016 | 9.5 | 1,166 | 62 |
| Synthetic or rubber | 911 | 25,817 | 27,573 | 28.3 | 912 | 68 |
| Built-up | 836 | 21,835 | 24,082 | 26.1 | 873 | 62 |
| Slate or tile shingles | 406 | 4,306 | 4,227 | 10.6 | 989 | 61 |
| Wooden materials (including shingles) | 157 | 1,139 | 999 | 7.3 | 1,044 | 63 |
| Asphalt, fiberglass, or other shingles | 1,483 | 15,104 | 16,308 | 10.2 | 874 | 58 |
| Concrete | 51 | 1,642 | 2,076 | 32.2 | 758 | 66 |
| Other | 24 | 678 | 567 | 28.6 | 1,190 | 66 |
| No one major type | 18 | 657 | 333 | 36.4 | 1,972 | 54 |
| **Roof characteristics** | | | | | | |
| Roof tilt | | | | | | |
| Flat | 1,960 | 49,623 | 57,145 | 25.3 | 838 | 68 |
| Shallow pitch | 2,148 | 23,853 | 19,542 | 11.1 | 1,131 | 60 |
| Steeper pitch | 1,449 | 13,617 | 11,495 | 9.4 | 1,090 | 55 |
| Cool roof | 740 | 19,630 | 21,650 | 26.5 | 884 | 66 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | |
| Any type of renovation | 2,094 | 42,216 | 46,424 | 20.2 | 887 | 63 |
| Addition or annex | 444 | 13,022 | 12,473 | 29.3 | 1,033 | 68 |
| Reduction in floorspace | 71 | 1,753 | 2,572 | 24.6 | 668 | 69 |
| Roof replacement | 987 | 20,917 | 22,872 | 21.2 | 896 | 62 |
| Exterior wall replacement | 194 | 4,230 | 4,558 | 21.8 | 918 | 66 |
| Interior wall reconfiguration | 889 | 21,340 | 27,649 | 24.0 | 758 | 63 |
| Window replacement | 560 | 12,265 | 14,128 | 21.9 | 855 | 65 |
| HVAC equipment upgrade | 1,101 | 26,779 | 30,162 | 24.3 | 872 | 63 |
| Lighting upgrade | 982 | 25,503 | 28,277 | 26.0 | 891 | 66 |
| Electrical upgrade | 747 | 16,160 | 17,723 | 21.6 | 894 | 63 |
| Plumbing system upgrade | 644 | 13,828 | 16,073 | 21.5 | 847 | 67 |
| Insulation upgrade | 382 | 7,607 | 8,383 | 19.9 | 889 | 62 |
| Fire, safety, or security upgrade | 616 | 17,196 | 20,050 | 27.9 | 850 | 68 |
| Structural upgrade | 152 | 3,913 | 3,724 | 25.8 | 1,035 | 64 |
| Other | 39 | 848 | 1,011 | 21.7 | 838 | 68 |
| No renovations | 3,160 | 39,154 | 36,206 | 12.4 | 992 | 59 |
| Buildings constructed 2008 or later | 303 | 5,723 | 5,552 | 18.9 | 978 | 76 |
| **Energy sources (more than one may apply)** | | | | | | |
| Electricity | 5,234 | 84,869 | 88,114 | 16.2 | 935 | 63 |
| Natural gas | 2,933 | 58,725 | 62,376 | 20.0 | 926 | 65 |
| Fuel oil | 467 | 20,200 | 25,625 | 43.3 | 781 | 76 |
| District heat | 48 | 5,964 | 8,230 | 124.9 | 712 | 87 |
| District chilled water | 54 | 4,608 | 5,742 | 85.4 | 791 | 87 |
| Propane | 510 | 7,706 | 5,903 | 15.1 | 1,289 | 64 |
| Wood | 69 | 502 | 476 | 7.3 | 1,036 | 65 |
| Coal | Q | Q | Q | Q | Q | Q |
| Solar | 40 | 1,908 | 1,713 | 48.2 | 1,112 | 84 |
| Other | 61 | 1,386 | 1,526 | 22.7 | 897 | 64 |
| **Space-heating energy sources (more than one may apply)** | | | | | | |
| Electricity | 2,858 | 49,030 | 53,857 | 17.2 | 900 | 64 |
| Natural gas | 2,612 | 49,511 | 51,754 | 19.0 | 940 | 62 |
| Fuel oil | 270 | 4,351 | 4,163 | 16.1 | 1,021 | 60 |
| District heat | 48 | 5,925 | 8,157 | 124.3 | 714 | 87 |
| Propane | 342 | 3,067 | 2,510 | 9.0 | 1,189 | 55 |
| Wood | 63 | 395 | 212 | 6.3 | 1,819 | 63 |
| Coal | Q | Q | Q | Q | Q | Q |
| Solar | Q | Q | Q | Q | Q | Q |
| Other | 32 | 508 | 463 | 15.7 | 1,098 | 56 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Primary space-heating energy source** | | | | | | |
| Electricity | 1,819 | 26,205 | 28,953 | 14.4 | 891 | 66 |
| Natural gas | 2,322 | 42,988 | 44,641 | 18.5 | 946 | 61 |
| Fuel oil | 205 | 2,542 | 2,000 | 12.4 | 1,221 | 59 |
| District heat | 47 | 5,797 | 8,048 | 122.9 | 708 | 87 |
| Propane | 261 | 1,948 | 1,471 | 7.5 | 1,274 | 52 |
| Wood | 38 | 178 | 101 | 4.6 | 1,736 | 55 |
| Coal | Q | Q | Q | Q | Q | Q |
| Other | 25 | 341 | Q | 13.5 | 959 | 54 |
| **Cooling energy sources (more than one may apply)** | | | | | | |
| Electricity | 4,413 | 76,034 | 82,280 | 17.2 | 914 | 64 |
| Natural gas | 12 | 732 | 1,048 | 61.5 | 699 | 67 |
| District chilled water | 54 | 4,608 | 5,742 | 85.4 | 791 | 87 |
| **Water-heating energy sources (more than one may apply)** | | | | | | |
| Electricity | 2,658 | 42,755 | 46,793 | 16.1 | 905 | 61 |
| Natural gas | 1,758 | 39,523 | 41,909 | 22.5 | 931 | 70 |
| Fuel oil | 77 | 1,911 | 1,627 | 24.7 | 1,172 | 80 |
| District heat | 25 | 4,551 | 6,365 | 179.7 | 712 | 101 |
| Propane | 142 | 1,575 | 1,258 | 11.1 | 1,236 | 75 |
| **Cooking energy sources (more than one may apply)** | | | | | | |
| Electricity | 1,010 | 25,151 | 27,312 | 24.9 | 914 | 72 |
| Natural gas | 740 | 24,770 | 25,861 | 33.5 | 955 | 81 |
| Propane | 144 | 2,001 | 1,971 | 13.9 | 1,011 | 85 |
| **Energy end uses (more than one may apply)** | | | | | | |
| Buildings with space heating | 4,722 | 80,078 | 85,624 | 17.0 | 918 | 63 |
| Buildings with cooling | 4,461 | 79,294 | 85,775 | 17.8 | 914 | 64 |
| Buildings with water heating | 4,423 | 79,015 | 85,448 | 17.9 | 914 | 65 |
| Buildings with cooking | 1,589 | 38,546 | 41,216 | 24.3 | 929 | 74 |
| Buildings with manufacturing | 259 | 5,078 | 5,033 | 19.6 | 1,006 | 57 |
| Buildings with electricity generation | 410 | 25,642 | 30,932 | 62.5 | 826 | 92 |
| **Percent of floorspace heated** | | | | | | |
| Not heated | 835 | 7,015 | 2,558 | 8.4 | 1,526 | 56 |
| 1 to 50 | 697 | 10,130 | 6,413 | 14.5 | 1,521 | 54 |
| 51 to 99 | 727 | 14,650 | 15,548 | 20.2 | 936 | 67 |
| 100 | 3,298 | 55,298 | 63,662 | 16.8 | 854 | 64 |
| **Percent of floorspace cooled** | | | | | | |
| Not cooled | 1,096 | 7,799 | 2,407 | 7.1 | 1,728 | 51 |
| 1 to 50 | 1,173 | 18,891 | 12,646 | 16.1 | 1,472 | 58 |
| 51 to 99 | 897 | 22,728 | 25,280 | 25.3 | 892 | 70 |
| 100 | 2,391 | 37,676 | 47,849 | 15.8 | 778 | 65 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Percent lit when open** | | | | | | |
| Zero | 70 | 322 | 58 | 4.6 | Q | 113 |
| 1 to 50 | 1,099 | 12,628 | 6,713 | 11.5 | 1,821 | 64 |
| 51 to 99 | 1,666 | 34,814 | 36,393 | 20.9 | 952 | 64 |
| 100 | 2,222 | 35,726 | 44,884 | 16.1 | 787 | 65 |
| Building never open/electricity not used | 501 | 3,603 | 133 | 7.2 | Q | 25 |
| **Percent lit during off hours** | | | | | | |
| Zero | 2,489 | 24,746 | 23,170 | 9.9 | 990 | 48 |
| 1 to 50 | 2,441 | 50,753 | 54,552 | 20.8 | 921 | 69 |
| 51 to 100 | 202 | 6,926 | 7,816 | 34.3 | 879 | 125 |
| Building always open with no "off hours" | 102 | 2,443 | 2,577 | 23.9 | 911 | 168 |
| Electricity not used | 323 | 2,225 | 67 | 6.9 | Q | 39 |
| **Heating equipment (more than one may apply)** | | | | | | |
| Heat pumps | 628 | 11,846 | 13,269 | 18.9 | 883 | 63 |
| Furnaces | 755 | 8,654 | 8,562 | 11.5 | 997 | 58 |
| Individual space heaters | 1,247 | 20,766 | 19,345 | 16.6 | 1,057 | 60 |
| District heat | 48 | 5,925 | 8,157 | 124.3 | 714 | 87 |
| Boilers | 544 | 22,443 | 25,157 | 41.3 | 881 | 70 |
| Packaged heating units | 2,802 | 49,188 | 51,098 | 17.6 | 949 | 64 |
| Other | 62 | 1,574 | 1,202 | 25.5 | 1,295 | 86 |
| **Cooling equipment (more than one may apply)** | | | | | | |
| Residential-type central air conditioners | 1,546 | 14,765 | 15,104 | 9.5 | 963 | 58 |
| Heat pumps | 692 | 12,538 | 14,265 | 18.1 | 873 | 63 |
| Individual air conditioners | 709 | 12,420 | 12,342 | 17.5 | 1,000 | 66 |
| District chilled water | 54 | 4,608 | 5,742 | 85.4 | 791 | 87 |
| Central chillers | 163 | 17,041 | 21,944 | 104.6 | 773 | 84 |
| Packaged air conditioning units | 1,909 | 45,153 | 46,979 | 23.6 | 953 | 70 |
| Swamp coolers | 109 | 1,918 | 1,755 | 17.5 | 1,078 | 66 |
| Other | Q | 328 | 474 | Q | 678 | 56 |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | |
| Heating | 1,874 | 27,558 | 28,670 | 14.7 | 947 | 62 |
| Cooling | 1,971 | 30,702 | 33,365 | 15.6 | 912 | 63 |
| **Water-heating equipment** | | | | | | |
| Centralized system | 3,348 | 47,534 | 50,164 | 14.2 | 934 | 65 |
| Distributed system | 690 | 12,688 | 14,214 | 18.4 | 887 | 60 |
| Combination of centralized and distributed system | 385 | 18,793 | 21,070 | 48.8 | 885 | 75 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Lighting equipment types (more than one may apply)** | | | | | | |
| Incandescent | 1,826 | 38,406 | 41,621 | 21.0 | 914 | 63 |
| Standard fluorescent | 4,649 | 80,081 | 85,648 | 17.2 | 923 | 64 |
| Compact fluorescent | 2,302 | 53,816 | 59,903 | 23.4 | 893 | 71 |
| High-intensity discharge (HID) | 525 | 23,396 | 23,812 | 44.5 | 975 | 72 |
| Halogen | 905 | 28,059 | 30,498 | 31.0 | 917 | 69 |
| LED | 473 | 22,071 | 25,900 | 46.6 | 851 | 83 |
| Other | 10 | 446 | 555 | 45.2 | 804 | 82 |
| **Refrigeration equipment (more than one may apply)** | | | | | | |
| Any refrigeration | 3,984 | 73,645 | 78,938 | 18.5 | 926 | 65 |
| Walk-in units | 811 | 28,361 | 31,133 | 35.0 | 910 | 93 |
| Cases or cabinets | 915 | 28,719 | 31,528 | 31.4 | 910 | 86 |
| Large cold storage areas | 78 | 4,171 | 3,692 | 53.4 | 1,130 | 89 |
| Commercial ice makers | 846 | 32,734 | 36,512 | 38.7 | 894 | 90 |
| Residential-type or compact units | 3,388 | 62,381 | 67,677 | 18.4 | 915 | 61 |
| Vending machines | 960 | 43,936 | 49,684 | 45.8 | 882 | 80 |
| No refrigeration | 1,573 | 13,448 | 9,244 | 8.5 | 1,023 | 52 |
| **Office equipment (more than one may apply)** | | | | | | |
| Desktop computers | 3,977 | 77,063 | 84,337 | 19.4 | 911 | 66 |
| With flat screen monitors | 3,847 | 76,160 | 83,874 | 19.8 | 905 | 66 |
| With multiple monitors | 911 | 30,946 | 43,399 | 34.0 | 713 | 67 |
| Laptop computers | 2,730 | 63,486 | 73,337 | 23.3 | 864 | 66 |
| Dedicated servers | 1,748 | 53,369 | 63,425 | 30.5 | 840 | 69 |
| Laser printers | 2,339 | 54,256 | 63,469 | 23.2 | 853 | 66 |
| Inkjet printers | 2,187 | 36,235 | 37,744 | 16.6 | 957 | 65 |
| FAX machines | 3,185 | 66,682 | 73,771 | 20.9 | 902 | 66 |
| Photocopiers | 2,163 | 59,277 | 68,508 | 27.4 | 863 | 64 |
| **Number of desktop computers** | | | | | | |
| None | 1,581 | 10,030 | 3,844 | 6.3 | 1,488 | 51 |
| 1 to 4 | 2,039 | 15,669 | 11,304 | 7.7 | 1,370 | 65 |
| 5 to 9 | 821 | 9,422 | 9,594 | 11.5 | 981 | 63 |
| 10 to 19 | 482 | 9,388 | 8,659 | 19.5 | 1,083 | 65 |
| 20 to 49 | 355 | 13,094 | 12,782 | 36.9 | 1,022 | 71 |
| 50 to 99 | 143 | 8,284 | 9,293 | 57.8 | 891 | 73 |
| 100 to 249 | 92 | 9,728 | 12,514 | 105.6 | 777 | 69 |
| 250 or more | 44 | 11,478 | 20,191 | 258.3 | 568 | 86 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **Number of laptop computers** | | | | | | |
| None | 2,827 | 23,607 | 14,845 | 8.4 | 1,291 | 58 |
| 1 to 4 | 1,944 | 21,161 | 17,749 | 10.9 | 1,187 | 63 |
| 5 to 9 | 350 | 8,345 | 8,868 | 23.9 | 940 | 67 |
| 10 to 19 | 181 | 8,343 | 9,267 | 46.0 | 900 | 70 |
| 20 to 49 | 144 | 9,643 | 11,659 | 67.2 | 827 | 73 |
| 50 to 99 | 58 | 5,234 | 8,236 | 91.0 | 636 | 75 |
| 100 to 249 | 35 | 5,217 | 6,608 | 150.9 | 789 | 87 |
| 250 or more | 20 | 5,542 | 10,949 | 280.8 | 506 | 95 |
| **Number of dedicated servers** | | | | | | |
| None | 3,809 | 33,724 | 24,756 | 8.9 | 1,181 | 58 |
| 1 to 4 | 1,562 | 34,097 | 34,337 | 21.8 | 991 | 68 |
| 5 to 9 | 97 | 6,241 | 7,841 | 64.3 | 796 | 74 |
| 10 to 19 | 50 | 5,711 | 7,551 | 113.6 | 755 | 82 |
| 20 to 49 | 25 | 3,758 | 6,685 | 147.4 | 562 | 82 |
| 50 or more | 13 | 3,562 | 7,012 | 271.4 | 508 | 100 |
| **Number of photocopiers** | | | | | | |
| None | 3,394 | 27,816 | 19,673 | 8.2 | 1,189 | 60 |
| One | 1,325 | 17,080 | 13,348 | 12.9 | 1,270 | 61 |
| 2 to 4 | 648 | 20,312 | 21,540 | 31.4 | 943 | 66 |
| 5 to 9 | 116 | 8,863 | 10,503 | 76.7 | 844 | 74 |
| 10 or more | 75 | 13,022 | 23,118 | 174.7 | 563 | 82 |
| **Number of TVs or video displays** | | | | | | |
| None | 2,718 | 24,339 | 17,802 | 9.0 | 1,126 | 53 |
| One | 1,145 | 9,990 | 10,015 | 8.7 | 983 | 58 |
| 2 to 4 | 1,035 | 16,465 | 17,695 | 15.9 | 925 | 68 |
| 5 to 9 | 314 | 8,148 | 10,105 | 25.9 | 806 | 82 |
| 10 to 19 | 154 | 8,168 | 10,344 | 53.1 | 789 | 90 |
| 20 to 49 | 106 | 8,058 | 8,931 | 76.1 | 902 | 102 |
| 50 to 99 | 48 | 4,378 | 4,384 | 90.9 | 999 | 129 |
| 100 or more | 37 | 7,547 | 8,904 | 201.5 | 848 | 156 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | |
| Snack bar or concession stand | 153 | 9,884 | 10,260 | 64.6 | 963 | 94 |
| Fast food or small restaurant | 173 | 9,787 | 10,961 | 56.5 | 893 | 92 |
| Cafeteria or large restaurant | 130 | 15,222 | 17,611 | 117.1 | 864 | 80 |
| Commercial kitchen/ food preparation area | 282 | 16,150 | 15,343 | 57.2 | 1,051 | 86 |
| Small kitchen area | 736 | 14,054 | 13,620 | 19.1 | 1,017 | 61 |
| **Separate computer areas (more than one may apply)** | | | | | | |
| Data center or server farm | 97 | 11,105 | 18,027 | 115.1 | 616 | 82 |
| Computer-based training room | 244 | 17,723 | 22,237 | 72.7 | 797 | 74 |
| Student or public computer center | 238 | 14,341 | 12,506 | 60.1 | 1,146 | 70 |

## Table B1. Summary table: total and means of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Mean square feet per building (thousand) | Mean square feet per worker[1] | Mean operating hours per week |
|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 15.7 | 936 | 62 |
| **HVAC conservation features (more than one may apply)** | | | | | | |
| Economizer cycle | 601 | 30,749 | 35,394 | 51.2 | 866 | 74 |
| Regular HVAC maintenance | 3,178 | 69,244 | 77,868 | 21.8 | 880 | 68 |
| Building automation system (BAS)[3] | 781 | 37,051 | 42,344 | 47.5 | 869 | 73 |
| **Window and interior lighting features (more than one may apply)** | | | | | | |
| Multipaned windows | 3,012 | 60,362 | 62,267 | 20.0 | 944 | 63 |
| Tinted window glass | 1,875 | 45,025 | 50,791 | 24.0 | 865 | 65 |
| Reflective window glass | 549 | 15,908 | 18,998 | 29.0 | 826 | 66 |
| External overhangs or awnings | 1,867 | 32,188 | 33,758 | 17.2 | 938 | 66 |
| Skylights or atriums | 591 | 22,261 | 21,919 | 37.6 | 995 | 65 |
| Light scheduling | 918 | 30,263 | 34,960 | 33.0 | 861 | 75 |
| Occupancy sensors | 813 | 35,871 | 40,959 | 44.1 | 872 | 75 |
| Multi-level lighting or dimming | 349 | 14,534 | 16,135 | 41.7 | 897 | 76 |
| Daylight harvesting | 125 | 6,114 | 7,689 | 48.8 | 793 | 70 |
| Demand responsive lighting | 176 | 4,738 | 4,902 | 26.9 | 952 | 65 |
| Building automation system (BAS) for lighting[3] | 208 | 12,068 | 13,218 | 57.9 | 911 | 78 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | |
| Heating | 3,699 | 63,167 | 68,458 | 17.1 | 907 | 58 |
| Cooling | 3,517 | 62,516 | 68,297 | 17.8 | 904 | 59 |
| Lighting | 4,757 | 78,594 | 83,812 | 16.5 | 928 | 61 |

[1]Buildings with zero workers are excluded from this column.

[2]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).

[3]In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS).*

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

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/

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

Release date: February 2015
Revised date: December 2016

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 2,777 | 8,041 | 10,232 | 2.8 | 821 | 45 | 37 |
| 5,001 to 10,000 | 1,229 | 8,900 | 9,225 | 7.0 | 1,167 | 50 | 31 |
| 10,001 to 25,000 | 884 | 14,105 | 14,189 | 15.0 | 1,444 | 55 | 32 |
| 25,001 to 50,000 | 332 | 11,917 | 11,327 | 35.0 | 1,461 | 60 | 29 |
| 50,001 to 100,000 | 199 | 13,918 | 12,345 | 67.0 | 1,442 | 60 | 26 |
| 100,001 to 200,000 | 90 | 12,415 | 11,310 | 132.5 | 1,750 | 70 | 25 |
| 200,001 to 500,000 | 38 | 10,724 | 10,356 | 260.9 | 1,752 | 76 | 27 |
| Over 500,000 | 8 | 7,074 | 9,196 | 737.0 | 1,195 | 126 | 29 |
| **Principal building activity** | | | | | | | |
| Education | 389 | 12,239 | 10,885 | 10.0 | 1,033 | 50 | 30 |
| Food sales | 177 | 1,252 | 1,172 | 3.2 | 1,033 | 114 | 30 |
| Food service | 380 | 1,819 | 3,431 | 3.6 | 567 | 80 | 33 |
| Health care | 157 | 4,155 | 7,613 | 5.0 | 556 | 48 | 31 |
| Inpatient | 10 | 2,374 | 4,281 | 101.0 | 573 | 168 | 36 |
| Outpatient | 147 | 1,781 | 3,333 | 5.0 | 556 | 48 | 31 |
| Lodging | 158 | 5,826 | 3,066 | 14.7 | 2,541 | 168 | 37 |
| Mercantile | 602 | 11,330 | 9,117 | 6.6 | 1,200 | 60 | 33 |
| Retail (other than mall) | 438 | 5,439 | 4,023 | 5.0 | 1,450 | 56 | 37 |
| Enclosed and strip malls | 164 | 5,890 | 5,094 | 13.6 | 920 | 70 | 28 |
| Office | 1,012 | 15,952 | 33,756 | 5.0 | 600 | 47 | 33 |
| Public assembly | 352 | 5,559 | 3,108 | 5.4 | 1,800 | 50 | 41 |
| Public order and safety | 84 | 1,440 | 1,854 | 6.1 | 750 | 168 | 23 |
| Religious worship | 412 | 4,557 | 1,940 | 6.0 | 2,700 | 20 | 41 |
| Service | 619 | 4,630 | 4,031 | 4.0 | 1,200 | 50 | 35 |
| Warehouse and storage | 796 | 13,077 | 6,362 | 5.5 | 1,500 | 50 | 26 |
| Other | 125 | 2,002 | 1,611 | 6.0 | 1,500 | 50 | 28 |
| Vacant | 296 | 3,256 | 236 | 4.3 | 4,800 | 0 | 50 |
| **Year constructed** | | | | | | | |
| Before 1920 | 362 | 3,983 | 3,310 | 4.8 | 1,200 | 42 | 112 |
| 1920 to 1945 | 488 | 6,025 | 6,003 | 4.0 | 1,200 | 45 | 82 |
| 1946 to 1959 | 599 | 7,381 | 6,566 | 4.0 | 1,100 | 45 | 59 |
| 1960 to 1969 | 639 | 10,362 | 9,851 | 6.0 | 1,061 | 50 | 48 |
| 1970 to 1979 | 684 | 10,846 | 12,536 | 5.3 | 947 | 50 | 38 |
| 1980 to 1989 | 915 | 15,230 | 17,468 | 5.8 | 1,000 | 50 | 27 |
| 1990 to 1999 | 845 | 13,803 | 13,432 | 5.0 | 1,000 | 53 | 17 |
| 2000 to 2003 | 375 | 7,215 | 7,471 | 5.5 | 1,000 | 55 | 11 |
| 2004 to 2007 | 347 | 6,524 | 5,993 | 6.0 | 1,100 | 50 | 6 |
| 2008 to 2012 | 303 | 5,723 | 5,552 | 6.8 | 1,106 | 60 | 3 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Census region and division** | | | | | | | |
| Northeast | 805 | 15,534 | 17,775 | 6.0 | 1,050 | 54 | 46 |
| New England | 302 | 4,302 | 4,165 | 5.6 | 1,000 | 50 | 37 |
| Middle Atlantic | 504 | 11,232 | 13,610 | 6.0 | 1,100 | 55 | 48 |
| Midwest | 1,237 | 18,919 | 17,261 | 5.0 | 1,286 | 50 | 37 |
| East North Central | 735 | 12,742 | 11,933 | 5.0 | 1,200 | 50 | 37 |
| West North Central | 502 | 6,178 | 5,329 | 4.8 | 1,450 | 48 | 37 |
| South | 2,247 | 34,279 | 32,666 | 5.0 | 1,000 | 50 | 29 |
| South Atlantic | 1,091 | 17,981 | 18,098 | 5.3 | 992 | 54 | 28 |
| East South Central | 370 | 4,904 | 4,293 | 5.0 | 1,071 | 45 | 33 |
| West South Central | 786 | 11,394 | 10,275 | 5.0 | 1,000 | 48 | 29 |
| West | 1,267 | 18,360 | 20,479 | 5.3 | 960 | 50 | 32 |
| Mountain | 338 | 4,981 | 4,600 | 5.0 | 980 | 50 | 29 |
| Pacific | 929 | 13,379 | 15,878 | 5.5 | 960 | 50 | 34 |
| **Climate region[2]** | | | | | | | |
| Very cold/Cold | 2,031 | 31,898 | 30,739 | 5.2 | 1,123 | 50 | 37 |
| Mixed-humid | 1,743 | 27,873 | 28,708 | 5.0 | 1,029 | 50 | 32 |
| Mixed-dry/Hot-dry | 837 | 12,037 | 13,056 | 5.8 | 948 | 50 | 32 |
| Hot-humid | 799 | 12,831 | 12,541 | 5.0 | 1,000 | 50 | 28 |
| Marine | 147 | 2,454 | 3,138 | 5.0 | 1,000 | 60 | 33 |
| **Number of floors** | | | | | | | |
| One | 3,836 | 39,809 | 35,019 | 4.5 | 1,000 | 50 | 29 |
| Two | 1,158 | 20,206 | 19,744 | 7.0 | 1,098 | 50 | 42 |
| Three | 374 | 8,140 | 7,826 | 7.8 | 1,200 | 55 | 72 |
| Four to nine | 177 | 13,535 | 16,248 | 40.0 | 1,043 | 60 | 60 |
| Ten or more | 13 | 5,404 | 9,343 | 292.4 | 655 | 72 | 37 |
| **Elevators and escalators (more than one may apply)** | | | | | | | |
| Any elevators | 405 | 32,120 | 39,978 | 40.0 | 1,040 | 60 | 31 |
| Number of elevators | | | | | | | |
| One | 272 | 11,158 | 11,347 | 25.0 | 1,200 | 60 | 37 |
| Two to five | 118 | 12,817 | 15,489 | 80.0 | 932 | 67 | 27 |
| Six or more | 16 | 8,145 | 13,143 | 387.5 | 687 | 122 | 30 |
| Any escalators | 10 | 3,654 | 4,822 | 100.8 | 784 | 100 | 62 |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 2,892 | 17,751 | 5,064 | 3.3 | 1,667 | 45 | 37 |
| 5 to 9 | 1,085 | 8,973 | 7,017 | 5.0 | 833 | 50 | 32 |
| 10 to 19 | 731 | 9,623 | 9,472 | 7.9 | 625 | 56 | 28 |
| 20 to 49 | 513 | 14,514 | 14,881 | 16.9 | 648 | 60 | 28 |
| 50 to 99 | 206 | 13,476 | 13,424 | 48.3 | 771 | 60 | 29 |
| 100 to 249 | 93 | 10,941 | 13,368 | 77.0 | 536 | 65 | 27 |
| 250 or more | 37 | 11,815 | 24,956 | 201.7 | 388 | 69 | 28 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 1,149 | 8,220 | 3,291 | 3.6 | 1,511 | 8 | 42 |
| 40 to 48 | 1,346 | 15,828 | 17,546 | 4.8 | 905 | 40 | 34 |
| 49 to 60 | 1,244 | 20,529 | 24,845 | 6.6 | 1,000 | 55 | 31 |
| 61 to 84 | 764 | 15,867 | 16,679 | 7.0 | 960 | 72 | 32 |
| 85 to 167 | 479 | 9,395 | 8,087 | 5.0 | 967 | 104 | 27 |
| Open continuously | 575 | 17,253 | 17,734 | 7.0 | 1,250 | 168 | 26 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 4,781 | 67,550 | 68,505 | 5.0 | 1,050 | 50 | 32 |
| Owner occupied | 2,466 | 30,637 | 25,871 | 5.0 | 1,250 | 50 | 33 |
| Leased to tenant(s) | 1,745 | 26,115 | 32,033 | 5.0 | 916 | 55 | 31 |
| Owner occupied and leased | 349 | 8,873 | 10,601 | 8.5 | 967 | 50 | 31 |
| Unoccupied | 221 | 1,925 | 0 | 3.0 | N | 0 | 49 |
| Government owned | 776 | 19,543 | 19,676 | 6.3 | 960 | 48 | 34 |
| Federal | 33 | 1,573 | 2,135 | 9.5 | 570 | 56 | 32 |
| State | 185 | 5,539 | 5,579 | 7.0 | 1,050 | 48 | 41 |
| Local | 558 | 12,431 | 11,963 | 6.0 | 934 | 45 | 32 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | |
| Building owner | 4,715 | 73,702 | 74,433 | 5.0 | 1,072 | 50 | 33 |
| Business owner or tenant | 724 | 11,309 | 11,128 | 5.6 | 928 | 56 | 32 |
| Property management | 54 | 1,250 | 1,757 | 4.8 | 781 | 60 | 26 |
| Other | 64 | 832 | 864 | 5.2 | 1,042 | 48 | 26 |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | |
| Building owner | 4,876 | 76,271 | 76,830 | 5.0 | 1,074 | 50 | 33 |
| Business owner or tenant | 540 | 8,256 | 8,617 | 5.5 | 853 | 59 | 33 |
| Property management | 35 | 880 | 954 | 4.5 | 450 | 60 | 30 |
| Other | 106 | 1,686 | 1,781 | 6.1 | 958 | 50 | 26 |
| **Number of establishments** | | | | | | | |
| One | 4,205 | 54,994 | 52,072 | 4.9 | 1,094 | 50 | 32 |
| 2 to 5 | 862 | 17,756 | 18,916 | 7.2 | 933 | 50 | 32 |
| 6 to 10 | 147 | 4,425 | 5,890 | 14.0 | 832 | 60 | 29 |
| 11 to 20 | 68 | 3,704 | 5,276 | 29.9 | 790 | 66 | 25 |
| More than 20 | 27 | 3,821 | 6,028 | 61.6 | 714 | 74 | 27 |
| Currently unoccupied | 248 | 2,393 | 0 | 3.2 | N | 0 | 52 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Campus or complex activity** | | | | | | | |
| Not part of a campus or complex | 3,683 | 52,275 | 51,924 | 5.0 | 1,000 | 50 | 36 |
| Primary or secondary school | 237 | 4,616 | 4,670 | 5.7 | 1,000 | 40 | 30 |
| College or university | 84 | 4,068 | 3,090 | 24.0 | 1,612 | 72 | 42 |
| Office complex | 154 | 3,456 | 7,205 | 6.5 | 629 | 45 | 29 |
| Retail complex | 258 | 5,159 | 4,524 | 6.8 | 889 | 65 | 28 |
| Storage complex | 314 | 3,212 | 726 | 4.0 | 2,500 | 84 | 16 |
| Religious campus or complex | 197 | 1,932 | 1,027 | 5.3 | 1,750 | 30 | 41 |
| Health care complex | 52 | 3,362 | 5,715 | 10.0 | 554 | 60 | 29 |
| Lodging or resort complex | 65 | 1,295 | 817 | 5.6 | 1,400 | 168 | 35 |
| Transportation complex | 35 | 554 | 681 | 4.8 | 1,500 | 50 | 33 |
| Government complex | 104 | 2,107 | 3,236 | 5.2 | 682 | 49 | 40 |
| Other | 371 | 5,057 | 4,566 | 5.0 | 1,020 | 50 | 30 |
| **Predominant exterior wall material** | | | | | | | |
| Brick, stone, or stucco | 2,312 | 40,463 | 41,653 | 5.7 | 1,000 | 50 | 40 |
| Concrete (block or poured) | 1,121 | 20,726 | 20,195 | 5.9 | 1,067 | 50 | 38 |
| Concrete panels | 210 | 8,693 | 9,482 | 12.0 | 1,050 | 60 | 26 |
| Siding or shingles | 905 | 5,750 | 6,012 | 3.6 | 933 | 48 | 34 |
| Metal panels | 933 | 8,673 | 5,804 | 5.0 | 1,440 | 50 | 21 |
| Window glass | 17 | 1,340 | 2,652 | 13.2 | 507 | 60 | 25 |
| Other | 37 | 856 | 844 | 4.9 | 1,250 | 50 | 31 |
| No one major type | 21 | 592 | Q | 11.0 | 1,080 | 58 | 25 |
| **Predominant roof material** | | | | | | | |
| Metal surfacing | 1,672 | 15,916 | 12,016 | 5.0 | 1,250 | 50 | 23 |
| Synthetic or rubber | 911 | 25,817 | 27,573 | 8.0 | 1,003 | 55 | 39 |
| Built-up | 836 | 21,835 | 24,082 | 7.2 | 1,000 | 50 | 40 |
| Slate or tile shingles | 406 | 4,306 | 4,227 | 4.4 | 1,000 | 49 | 38 |
| Wooden materials (including shingles) | 157 | 1,139 | 999 | 3.6 | 1,200 | 55 | 41 |
| Asphalt, fiberglass, or other shingles | 1,483 | 15,104 | 16,308 | 4.5 | 900 | 48 | 38 |
| Concrete | 51 | 1,642 | 2,076 | 8.8 | 818 | 55 | 33 |
| Other | 24 | 678 | 567 | 12.0 | 1,167 | 53 | 37 |
| No one major type | 18 | 657 | 333 | 11.9 | 1,956 | 49 | 38 |
| **Roof characteristics** | | | | | | | |
| Roof tilt | | | | | | | |
| Flat | 1,960 | 49,623 | 57,145 | 7.5 | 976 | 55 | 37 |
| Shallow pitch | 2,148 | 23,853 | 19,542 | 4.5 | 1,100 | 50 | 31 |
| Steeper pitch | 1,449 | 13,617 | 11,495 | 4.9 | 1,136 | 45 | 32 |
| Cool roof | 740 | 19,630 | 21,650 | 6.6 | 1,000 | 55 | 29 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | |
| Any type of renovation | 2,094 | 42,216 | 46,424 | 5.7 | 1,000 | 50 | 44 |
| Addition or annex | 444 | 13,022 | 12,473 | 7.6 | 1,083 | 55 | 41 |
| Reduction in floorspace | 71 | 1,753 | 2,572 | 6.0 | 1,200 | 60 | 45 |
| Roof replacement | 987 | 20,917 | 22,872 | 5.8 | 1,029 | 50 | 48 |
| Exterior wall replacement | 194 | 4,230 | 4,558 | 5.0 | 1,000 | 55 | 52 |
| Interior wall reconfiguration | 889 | 21,340 | 27,649 | 6.0 | 885 | 50 | 44 |
| Window replacement | 560 | 12,265 | 14,128 | 6.0 | 1,000 | 50 | 53 |
| HVAC equipment upgrade | 1,101 | 26,779 | 30,162 | 6.5 | 1,003 | 50 | 46 |
| Lighting upgrade | 982 | 25,503 | 28,277 | 6.4 | 1,020 | 51 | 47 |
| Electrical upgrade | 747 | 16,160 | 17,723 | 5.2 | 1,000 | 50 | 52 |
| Plumbing system upgrade | 644 | 13,828 | 16,073 | 5.4 | 1,000 | 50 | 51 |
| Insulation upgrade | 382 | 7,607 | 8,383 | 5.6 | 993 | 50 | 50 |
| Fire, safety, or security upgrade | 616 | 17,196 | 20,050 | 6.5 | 1,000 | 55 | 48 |
| Structural upgrade | 152 | 3,913 | 3,724 | 7.0 | 908 | 51 | 47 |
| Other | 39 | 848 | 1,011 | 4.0 | 1,600 | 55 | 55 |
| No renovations | 3,160 | 39,154 | 36,206 | 5.0 | 1,050 | 50 | 29 |
| Buildings constructed 2008 or later | 303 | 5,723 | 5,552 | 6.8 | 1,106 | 60 | 3 |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 5,234 | 84,869 | 88,114 | 5.2 | 1,026 | 50 | 32 |
| Natural gas | 2,933 | 58,725 | 62,376 | 6.3 | 1,000 | 50 | 37 |
| Fuel oil | 467 | 20,200 | 25,625 | 7.0 | 1,181 | 54 | 42 |
| District heat | 48 | 5,964 | 8,230 | 57.4 | 1,269 | 72 | 45 |
| District chilled water | 54 | 4,608 | 5,742 | 29.2 | 1,146 | 75 | 33 |
| Propane | 510 | 7,706 | 5,903 | 5.1 | 1,333 | 50 | 31 |
| Wood | 69 | 502 | 476 | 3.5 | 1,600 | 54 | 42 |
| Coal | Q | Q | Q | Q | Q | Q | Q |
| Solar | 40 | 1,908 | 1,713 | 13.9 | 1,258 | 60 | 30 |
| Other | 61 | 1,386 | 1,526 | 7.8 | 1,263 | 54 | 37 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 2,858 | 49,030 | 53,857 | 5.3 | 1,000 | 50 | 32 |
| Natural gas | 2,612 | 49,511 | 51,754 | 6.3 | 1,011 | 50 | 38 |
| Fuel oil | 270 | 4,351 | 4,163 | 4.8 | 1,350 | 50 | 50 |
| District heat | 48 | 5,925 | 8,157 | 57.4 | 1,269 | 72 | 45 |
| Propane | 342 | 3,067 | 2,510 | 5.0 | 1,350 | 45 | 31 |
| Wood | 63 | 395 | 212 | 3.4 | 1,800 | 54 | 40 |
| Coal | Q | Q | Q | Q | Q | Q | Q |
| Solar | Q | Q | Q | Q | Q | Q | Q |
| Other | 32 | 508 | 463 | 11.0 | 1,263 | 50 | 37 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Primary space-heating energy source** | | | | | | | |
| Electricity | 1,819 | 26,205 | 28,953 | 5.0 | 960 | 50 | 28 |
| Natural gas | 2,322 | 42,988 | 44,641 | 6.0 | 1,024 | 50 | 38 |
| Fuel oil | 205 | 2,542 | 2,000 | 4.5 | 1,333 | 48 | 52 |
| District heat | 47 | 5,797 | 8,048 | 57.4 | 1,222 | 72 | 45 |
| Propane | 261 | 1,948 | 1,471 | 4.8 | 1,500 | 45 | 27 |
| Wood | 38 | 178 | 101 | 3.2 | 1,600 | 54 | 40 |
| Coal | Q | Q | Q | Q | Q | Q | Q |
| Other | 25 | 341 | Q | 8.1 | 1,222 | 50 | 38 |
| **Cooling energy sources (more than one may apply)** | | | | | | | |
| Electricity | 4,413 | 76,034 | 82,280 | 5.6 | 1,000 | 50 | 32 |
| Natural gas | 12 | 732 | 1,048 | 9.9 | 1,275 | 48 | 52 |
| District chilled water | 54 | 4,608 | 5,742 | 29.2 | 1,146 | 75 | 33 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 2,658 | 42,755 | 46,793 | 5.2 | 1,000 | 50 | 31 |
| Natural gas | 1,758 | 39,523 | 41,909 | 7.0 | 1,000 | 56 | 37 |
| Fuel oil | 77 | 1,911 | 1,627 | 7.0 | 1,350 | 60 | 52 |
| District heat | 25 | 4,551 | 6,365 | 96.7 | 1,273 | 80 | 46 |
| Propane | 142 | 1,575 | 1,258 | 5.6 | 1,200 | 54 | 26 |
| **Cooking energy sources (more than one may apply)** | | | | | | | |
| Electricity | 1,010 | 25,151 | 27,312 | 6.0 | 1,063 | 60 | 33 |
| Natural gas | 740 | 24,770 | 25,861 | 8.0 | 963 | 70 | 37 |
| Propane | 144 | 2,001 | 1,971 | 4.8 | 1,100 | 75 | 28 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 4,722 | 80,078 | 85,624 | 5.4 | 1,017 | 50 | 33 |
| Buildings with cooling | 4,461 | 79,294 | 85,775 | 5.7 | 1,000 | 50 | 32 |
| Buildings with water heating | 4,423 | 79,015 | 85,448 | 5.8 | 1,000 | 50 | 33 |
| Buildings with cooking | 1,589 | 38,546 | 41,216 | 6.2 | 1,033 | 60 | 35 |
| Buildings with manufacturing | 259 | 5,078 | 5,033 | 6.7 | 1,167 | 50 | 30 |
| Buildings with electricity generation | 410 | 25,642 | 30,932 | 15.0 | 1,010 | 66 | 27 |
| **Percent of floorspace heated** | | | | | | | |
| Not heated | 835 | 7,015 | 2,558 | 3.5 | 1,285 | 45 | 30 |
| 1 to 50 | 697 | 10,130 | 6,413 | 6.0 | 1,408 | 48 | 34 |
| 51 to 99 | 727 | 14,650 | 15,548 | 6.5 | 1,153 | 55 | 37 |
| 100 | 3,298 | 55,298 | 63,662 | 5.0 | 951 | 50 | 33 |
| **Percent of floorspace cooled** | | | | | | | |
| Not cooled | 1,096 | 7,799 | 2,407 | 3.6 | 1,500 | 40 | 33 |
| 1 to 50 | 1,173 | 18,891 | 12,646 | 6.4 | 1,400 | 50 | 35 |
| 51 to 99 | 897 | 22,728 | 25,280 | 7.5 | 973 | 55 | 36 |
| 100 | 2,391 | 37,676 | 47,849 | 5.0 | 833 | 50 | 31 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Percent lit when open** | | | | | | | |
| Zero | 70 | 322 | 58 | 3.5 | Q | 105 | 9 |
| 1 to 50 | 1,099 | 12,628 | 6,713 | 5.0 | 1,667 | 48 | 39 |
| 51 to 99 | 1,666 | 34,814 | 36,393 | 7.0 | 1,000 | 50 | 34 |
| 100 | 2,222 | 35,726 | 44,884 | 5.0 | 875 | 54 | 30 |
| Building never open/electricity not used | 501 | 3,603 | 133 | 3.0 | Q | 0 | 39 |
| **Percent lit during off hours** | | | | | | | |
| Zero | 2,489 | 24,746 | 23,170 | 4.8 | 1,131 | 45 | 33 |
| 1 to 50 | 2,441 | 50,753 | 54,552 | 6.5 | 1,000 | 58 | 33 |
| 51 to 100 | 202 | 6,926 | 7,816 | 6.7 | 933 | 168 | 32 |
| Building always open with no "off hours" | 102 | 2,443 | 2,577 | 5.2 | 1,000 | 168 | 20 |
| Electricity not used | 323 | 2,225 | 67 | 3.0 | Q | 0 | 33 |
| **Heating equipment (more than one may apply)** | | | | | | | |
| Heat pumps | 628 | 11,846 | 13,269 | 5.6 | 960 | 50 | 27 |
| Furnaces | 755 | 8,654 | 8,562 | 5.4 | 1,000 | 50 | 33 |
| Individual space heaters | 1,247 | 20,766 | 19,345 | 5.3 | 1,200 | 50 | 42 |
| District heat | 48 | 5,925 | 8,157 | 57.4 | 1,269 | 72 | 45 |
| Boilers | 544 | 22,443 | 25,157 | 14.0 | 1,201 | 55 | 46 |
| Packaged heating units | 2,802 | 49,188 | 51,098 | 6.0 | 1,000 | 51 | 32 |
| Other | 62 | 1,574 | 1,202 | 8.0 | 1,250 | 70 | 32 |
| **Cooling equipment (more than one may apply)** | | | | | | | |
| Residential-type central air conditioners | 1,546 | 14,765 | 15,104 | 5.0 | 1,000 | 50 | 35 |
| Heat pumps | 692 | 12,538 | 14,265 | 5.5 | 955 | 50 | 27 |
| Individual air conditioners | 709 | 12,420 | 12,342 | 5.0 | 1,200 | 50 | 47 |
| District chilled water | 54 | 4,608 | 5,742 | 29.2 | 1,146 | 75 | 33 |
| Central chillers | 163 | 17,041 | 21,944 | 51.0 | 1,271 | 60 | 32 |
| Packaged air conditioning units | 1,909 | 45,153 | 46,979 | 7.6 | 960 | 58 | 31 |
| Swamp coolers | 109 | 1,918 | 1,755 | 4.9 | 1,060 | 59 | 37 |
| Other | Q | 328 | 474 | 10.5 | 1,220 | 40 | 54 |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | |
| Heating | 1,874 | 27,558 | 28,670 | 5.2 | 1,000 | 50 | 47 |
| Cooling | 1,971 | 30,702 | 33,365 | 5.3 | 1,000 | 50 | 47 |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 3,348 | 47,534 | 50,164 | 5.2 | 1,000 | 50 | 34 |
| Distributed system | 690 | 12,688 | 14,214 | 6.0 | 1,050 | 50 | 32 |
| Combination of centralized and distributed system | 385 | 18,793 | 21,070 | 16.9 | 1,010 | 61 | 29 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Lighting equipment types (more than one may apply)** | | | | | | | |
| Incandescent | 1,826 | 38,406 | 41,621 | 6.0 | 1,038 | 50 | 39 |
| Standard fluorescent | 4,649 | 80,081 | 85,648 | 5.5 | 1,000 | 50 | 32 |
| Compact fluorescent | 2,302 | 53,816 | 59,903 | 6.7 | 1,000 | 57 | 33 |
| High-intensity discharge (HID) | 525 | 23,396 | 23,812 | 14.0 | 1,250 | 60 | 30 |
| Halogen | 905 | 28,059 | 30,498 | 8.8 | 1,143 | 59 | 31 |
| LED | 473 | 22,071 | 25,900 | 14.7 | 1,005 | 70 | 29 |
| Other | 10 | 446 | 555 | 10.0 | 750 | 70 | 34 |
| **Refrigeration equipment (more than one may apply)** | | | | | | | |
| Any refrigeration | 3,984 | 73,645 | 78,938 | 5.8 | 1,000 | 52 | 33 |
| Walk-in units | 811 | 28,361 | 31,133 | 6.6 | 862 | 84 | 31 |
| Cases or cabinets | 915 | 28,719 | 31,528 | 6.6 | 967 | 76 | 31 |
| Large cold storage areas | 78 | 4,171 | 3,692 | 11.0 | 1,012 | 78 | 25 |
| Commercial ice makers | 846 | 32,734 | 36,512 | 9.3 | 931 | 78 | 28 |
| Residential-type or compact units | 3,388 | 62,381 | 67,677 | 5.9 | 1,000 | 50 | 34 |
| Vending machines | 960 | 43,936 | 49,684 | 17.1 | 1,000 | 65 | 29 |
| No refrigeration | 1,573 | 13,448 | 9,244 | 4.0 | 1,237 | 44 | 32 |
| **Office equipment (more than one may apply)** | | | | | | | |
| Desktop computers | 3,977 | 77,063 | 84,337 | 6.3 | 984 | 50 | 32 |
| With flat screen monitors | 3,847 | 76,160 | 83,874 | 6.4 | 960 | 50 | 32 |
| With multiple monitors | 911 | 30,946 | 43,399 | 10.0 | 744 | 55 | 29 |
| Laptop computers | 2,730 | 63,486 | 73,337 | 7.2 | 1,000 | 51 | 32 |
| Dedicated servers | 1,748 | 53,369 | 63,425 | 9.9 | 832 | 55 | 31 |
| Laser printers | 2,339 | 54,256 | 63,469 | 7.2 | 889 | 50 | 32 |
| Inkjet printers | 2,187 | 36,235 | 37,744 | 5.8 | 1,013 | 50 | 32 |
| FAX machines | 3,185 | 66,682 | 73,771 | 6.6 | 963 | 50 | 32 |
| Photocopiers | 2,163 | 59,277 | 68,508 | 9.0 | 900 | 50 | 32 |
| **Number of desktop computers** | | | | | | | |
| None | 1,581 | 10,030 | 3,844 | 3.3 | 1,500 | 40 | 36 |
| 1 to 4 | 2,039 | 15,669 | 11,304 | 4.5 | 1,200 | 50 | 35 |
| 5 to 9 | 821 | 9,422 | 9,594 | 6.0 | 828 | 50 | 32 |
| 10 to 19 | 482 | 9,388 | 8,659 | 9.9 | 700 | 51 | 27 |
| 20 to 49 | 355 | 13,094 | 12,782 | 19.5 | 757 | 55 | 27 |
| 50 to 99 | 143 | 8,284 | 9,293 | 36.4 | 677 | 60 | 36 |
| 100 to 249 | 92 | 9,728 | 12,514 | 68.0 | 768 | 55 | 30 |
| 250 or more | 44 | 11,478 | 20,191 | 174.1 | 720 | 64 | 29 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **Number of laptop computers** | | | | | | | |
| None | 2,827 | 23,607 | 14,845 | 4.0 | 1,200 | 48 | 33 |
| 1 to 4 | 1,944 | 21,161 | 17,749 | 5.2 | 1,042 | 50 | 33 |
| 5 to 9 | 350 | 8,345 | 8,868 | 10.0 | 765 | 55 | 30 |
| 10 to 19 | 181 | 8,343 | 9,267 | 25.0 | 750 | 56 | 27 |
| 20 to 49 | 144 | 9,643 | 11,659 | 40.8 | 642 | 55 | 30 |
| 50 to 99 | 58 | 5,234 | 8,236 | 55.9 | 830 | 55 | 31 |
| 100 to 249 | 35 | 5,217 | 6,608 | 100.0 | 1,205 | 60 | 33 |
| 250 or more | 20 | 5,542 | 10,949 | 189.7 | 726 | 70 | 26 |
| **Number of dedicated servers** | | | | | | | |
| None | 3,809 | 33,724 | 24,756 | 4.3 | 1,200 | 48 | 33 |
| 1 to 4 | 1,562 | 34,097 | 34,337 | 8.3 | 862 | 55 | 32 |
| 5 to 9 | 97 | 6,241 | 7,841 | 34.0 | 600 | 55 | 27 |
| 10 to 19 | 50 | 5,711 | 7,551 | 68.0 | 750 | 60 | 27 |
| 20 to 49 | 25 | 3,758 | 6,685 | 72.0 | 500 | 60 | 26 |
| 50 or more | 13 | 3,562 | 7,012 | 155.0 | 542 | 72 | 27 |
| **Number of photocopiers** | | | | | | | |
| None | 3,394 | 27,816 | 19,673 | 4.0 | 1,200 | 50 | 33 |
| One | 1,325 | 17,080 | 13,348 | 6.0 | 1,025 | 50 | 33 |
| 2 to 4 | 648 | 20,312 | 21,540 | 14.5 | 800 | 54 | 28 |
| 5 to 9 | 116 | 8,863 | 10,503 | 44.7 | 792 | 60 | 28 |
| 10 or more | 75 | 13,022 | 23,118 | 78.0 | 507 | 60 | 30 |
| **Number of TVs or video displays** | | | | | | | |
| None | 2,718 | 24,339 | 17,802 | 4.0 | 1,106 | 45 | 33 |
| One | 1,145 | 9,990 | 10,015 | 4.6 | 1,000 | 50 | 33 |
| 2 to 4 | 1,035 | 16,465 | 17,695 | 7.2 | 976 | 57 | 30 |
| 5 to 9 | 314 | 8,148 | 10,105 | 9.6 | 903 | 70 | 31 |
| 10 to 19 | 154 | 8,168 | 10,344 | 26.4 | 933 | 70 | 32 |
| 20 to 49 | 106 | 8,058 | 8,931 | 40.0 | 1,275 | 78 | 27 |
| 50 to 99 | 48 | 4,378 | 4,384 | 50.0 | 1,720 | 168 | 26 |
| 100 or more | 37 | 7,547 | 8,904 | 91.0 | 2,541 | 168 | 28 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 153 | 9,884 | 10,260 | 11.0 | 1,274 | 81 | 32 |
| Fast food or small restaurant | 173 | 9,787 | 10,961 | 13.0 | 920 | 77 | 25 |
| Cafeteria or large restaurant | 130 | 15,222 | 17,611 | 66.9 | 1,250 | 60 | 34 |
| Commercial kitchen/ food preparation area | 282 | 16,150 | 15,343 | 20.0 | 1,417 | 70 | 31 |
| Small kitchen area | 736 | 14,054 | 13,620 | 6.0 | 1,400 | 48 | 40 |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 97 | 11,105 | 18,027 | 40.0 | 584 | 56 | 28 |
| Computer-based training room | 244 | 17,723 | 22,237 | 30.0 | 1,000 | 60 | 27 |
| Student or public computer center | 238 | 14,341 | 12,506 | 28.0 | 1,208 | 55 | 31 |

## Table B2. Summary table: total and medians of floorspace, number of workers, and hours of operation, 2012

| | Number of buildings (thousand) | Total floorspace (million square feet) | Total workers (thousand) | Median square feet per building (thousand) | Median square feet per worker[1] | Median operating hours per week | Median age of buildings (years) |
|---|---|---|---|---|---|---|---|
| **All buildings** | 5,557 | 87,093 | 88,182 | 5.0 | 1,029 | 50 | 32 |
| **HVAC conservation features (more than one may apply)** | | | | | | | |
| Economizer cycle | 601 | 30,749 | 35,394 | 16.5 | 1,028 | 60 | 27 |
| Regular HVAC maintenance | 3,178 | 69,244 | 77,868 | 6.8 | 960 | 55 | 31 |
| Building automation system (BAS)[3] | 781 | 37,051 | 42,344 | 14.0 | 1,077 | 60 | 24 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | |
| Multipaned windows | 3,012 | 60,362 | 62,267 | 6.3 | 1,000 | 50 | 28 |
| Tinted window glass | 1,875 | 45,025 | 50,791 | 7.2 | 960 | 54 | 28 |
| Reflective window glass | 549 | 15,908 | 18,998 | 8.8 | 967 | 58 | 26 |
| External overhangs or awnings | 1,867 | 32,188 | 33,758 | 5.6 | 1,000 | 55 | 33 |
| Skylights or atriums | 591 | 22,261 | 21,919 | 11.0 | 1,180 | 55 | 28 |
| Light scheduling | 918 | 30,263 | 34,960 | 9.5 | 1,000 | 61 | 27 |
| Occupancy sensors | 813 | 35,871 | 40,959 | 14.2 | 987 | 60 | 26 |
| Multi-level lighting or dimming | 349 | 14,534 | 16,135 | 13.0 | 1,000 | 70 | 28 |
| Daylight harvesting | 125 | 6,114 | 7,689 | 14.0 | 930 | 60 | 27 |
| Demand responsive lighting | 176 | 4,738 | 4,902 | 9.5 | 1,098 | 55 | 32 |
| Building automation system (BAS) for lighting[3] | 208 | 12,068 | 13,218 | 16.2 | 1,137 | 70 | 19 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | |
| Heating | 3,699 | 63,167 | 68,458 | 5.5 | 1,014 | 50 | 34 |
| Cooling | 3,517 | 62,516 | 68,297 | 5.8 | 1,000 | 50 | 33 |
| Lighting | 4,757 | 78,594 | 83,812 | 5.4 | 1,012 | 50 | 33 |

[1]Buildings with zero workers are excluded from this column.

[2]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).

[3]In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 372 | 645 | 1,159 | 601 | 8,041 | 1,057 | 1,858 | 3,383 | 1,744 |
| 5,001 to 10,000 | 1,229 | 171 | 257 | 491 | 310 | 8,900 | 1,248 | 1,872 | 3,535 | 2,245 |
| 10,001 to 25,000 | 884 | 152 | 183 | 327 | 221 | 14,105 | 2,408 | 2,889 | 5,209 | 3,599 |
| 25,001 to 50,000 | 332 | 47 | 83 | 127 | 75 | 11,917 | 1,644 | 3,029 | 4,528 | 2,716 |
| 50,001 to 100,000 | 199 | 36 | 40 | 88 | 34 | 13,918 | 2,676 | 2,729 | 6,139 | 2,374 |
| 100,001 to 200,000 | 90 | 18 | 18 | 37 | 17 | 12,415 | 2,542 | 2,400 | 5,152 | 2,321 |
| 200,001 to 500,000 | 38 | 8 | 10 | 13 | 7 | 10,724 | 2,232 | 2,726 | 3,681 | 2,084 |
| Over 500,000 | 8 | 2 | 2 | 3 | 1 | 7,074 | 1,727 | 1,418 | 2,652 | 1,277 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 45 | 67 | 159 | 118 | 12,239 | 2,056 | 3,173 | 5,162 | 1,848 |
| Food sales | 177 | 27 | 34 | 81 | 35 | 1,252 | 316 | 174 | 399 | 363 |
| Food service | 380 | 62 | 77 | 160 | 80 | 1,819 | 292 | 369 | 771 | 387 |
| Health care | 157 | 22 | 44 | 54 | 37 | 4,155 | 1,067 | 862 | 1,441 | 786 |
| Inpatient | 10 | 2 | 2 | 4 | 2 | 2,374 | 538 | 496 | 894 | 447 |
| Outpatient | 147 | 21 | 42 | 50 | 35 | 1,781 | 529 | 366 | 548 | 339 |
| Lodging | 158 | 27 | 23 | 69 | 38 | 5,826 | 1,007 | 1,058 | 2,302 | 1,459 |
| Mercantile | 602 | 98 | 131 | 251 | 122 | 11,330 | 1,653 | 2,132 | 4,729 | 2,815 |
| Retail (other than mall) | 438 | 75 | 103 | 177 | 83 | 5,439 | 835 | 1,142 | 2,126 | 1,336 |
| Enclosed and strip malls | 164 | 23 | 28 | 74 | 39 | 5,890 | 818 | 990 | 2,603 | 1,478 |
| Office | 1,012 | 148 | 230 | 390 | 245 | 15,952 | 3,703 | 3,334 | 5,501 | 3,414 |
| Public assembly | 352 | 65 | 100 | 110 | 77 | 5,559 | 953 | 1,585 | 2,003 | 1,018 |
| Public order and safety | 84 | 14 | 19 | 39 | Q | 1,440 | 345 | 334 | 576 | Q |
| Religious worship | 412 | 51 | 92 | 195 | 74 | 4,557 | 897 | 925 | 2,011 | 725 |
| Service | 619 | 108 | 177 | 230 | 103 | 4,630 | 823 | 1,472 | 1,642 | 694 |
| Warehouse and storage | 796 | 89 | 163 | 325 | 219 | 13,077 | 1,761 | 2,530 | 5,257 | 3,529 |
| Other | 125 | 18 | 30 | 34 | 43 | 2,002 | 273 | 435 | 827 | 467 |
| Vacant | 296 | 32 | 51 | 150 | 63 | 3,256 | 389 | 536 | 1,659 | 672 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 112 | 106 | 104 | 40 | 3,983 | 1,632 | 1,040 | 982 | 329 |
| 1920 to 1945 | 488 | 125 | 140 | 128 | 94 | 6,025 | 1,959 | 1,769 | 1,503 | 795 |
| 1946 to 1959 | 599 | 96 | 110 | 229 | 164 | 7,381 | 1,581 | 1,662 | 2,634 | 1,504 |
| 1960 to 1969 | 639 | 100 | 159 | 232 | 148 | 10,362 | 2,240 | 2,687 | 3,499 | 1,937 |
| 1970 to 1979 | 684 | 75 | 160 | 274 | 176 | 10,846 | 1,952 | 2,619 | 3,693 | 2,582 |
| 1980 to 1989 | 915 | 86 | 172 | 427 | 231 | 15,230 | 1,743 | 2,617 | 6,942 | 3,929 |
| 1990 to 1999 | 845 | 90 | 203 | 385 | 168 | 13,803 | 2,044 | 2,798 | 6,172 | 2,788 |
| 2000 to 2003 | 375 | 46 | 80 | 159 | 90 | 7,215 | 980 | 1,495 | 3,314 | 1,426 |
| 2004 to 2007 | 347 | 37 | 50 | 163 | 97 | 6,524 | 501 | 1,236 | 2,839 | 1,948 |
| 2008 to 2012 | 303 | 38 | 57 | 147 | 61 | 5,723 | 903 | 997 | 2,701 | 1,122 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 642 | 983 | N | 406 | 31,898 | 10,510 | 16,172 | N | 5,217 |
| Mixed-humid | 1,743 | 164 | 255 | 1,325 | N | 27,873 | 5,024 | 2,748 | 20,101 | N |
| Mixed-dry/Hot-dry | 837 | N | N | Q | 706 | 12,037 | N | N | Q | 10,490 |
| Hot-humid | 799 | N | N | 791 | Q | 12,831 | N | N | 12,632 | Q |
| Marine | 147 | N | N | N | 147 | 2,454 | N | N | N | 2,454 |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 360 | 785 | 1,737 | 954 | 39,809 | 3,865 | 7,652 | 18,532 | 9,760 |
| Two | 1,158 | 236 | 296 | 377 | 248 | 20,206 | 4,098 | 4,867 | 6,972 | 4,269 |
| Three | 374 | 147 | 121 | 63 | 43 | 8,140 | 2,421 | 2,607 | 2,028 | 1,083 |
| Four to nine | 177 | 60 | 33 | 64 | 21 | 13,535 | 3,409 | 2,915 | 5,013 | 2,198 |
| Ten or more | 13 | 4 | 2 | 5 | 2 | 5,404 | 1,742 | 879 | 1,734 | 1,049 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | | |
| Any elevators | 405 | 90 | 102 | 137 | 77 | 32,120 | 7,911 | 7,555 | 11,022 | 5,633 |
| Number of elevators | | | | | | | | | | |
| One | 272 | 58 | 74 | 89 | 50 | 11,158 | 2,580 | 3,220 | 3,665 | 1,693 |
| Two to five | 118 | 27 | 25 | 42 | 24 | 12,817 | 3,146 | 2,781 | 4,610 | 2,281 |
| Six or more | 16 | 5 | 3 | 6 | 3 | 8,145 | 2,186 | 1,554 | 2,746 | 1,658 |
| Any escalators | 10 | 3 | Q | 2 | 2 | 3,654 | 798 | 880 | 1,071 | 905 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 414 | 715 | 1,163 | 600 | 17,751 | 2,692 | 4,286 | 7,336 | 3,438 |
| 5 to 9 | 1,085 | 154 | 224 | 448 | 259 | 8,973 | 1,282 | 1,910 | 3,553 | 2,227 |
| 10 to 19 | 731 | 106 | 129 | 297 | 200 | 9,623 | 1,390 | 1,880 | 3,814 | 2,538 |
| 20 to 49 | 513 | 68 | 104 | 198 | 143 | 14,514 | 1,903 | 3,372 | 5,611 | 3,628 |
| 50 to 99 | 206 | 31 | 41 | 97 | 36 | 13,476 | 2,385 | 2,761 | 6,076 | 2,254 |
| 100 to 249 | 93 | 21 | 18 | 32 | 22 | 10,941 | 2,530 | 2,314 | 4,163 | 1,934 |
| 250 or more | 37 | 10 | 7 | 11 | 8 | 11,815 | 3,352 | 2,397 | 3,726 | 2,341 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 149 | 290 | 489 | 221 | 8,220 | 1,173 | 2,026 | 3,508 | 1,514 |
| 40 to 48 | 1,346 | 168 | 302 | 536 | 339 | 15,828 | 2,361 | 3,048 | 6,789 | 3,631 |
| 49 to 60 | 1,244 | 199 | 254 | 501 | 290 | 20,529 | 3,345 | 4,372 | 8,494 | 4,318 |
| 61 to 84 | 764 | 131 | 155 | 270 | 209 | 15,867 | 3,313 | 3,628 | 5,275 | 3,651 |
| 85 to 167 | 479 | 75 | 98 | 204 | 101 | 9,395 | 1,881 | 2,428 | 3,138 | 1,948 |
| Open continuously | 575 | 83 | 139 | 247 | 106 | 17,253 | 3,461 | 3,418 | 7,076 | 3,298 |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 4,781 | 723 | 1,066 | 1,958 | 1,034 | 67,550 | 11,913 | 14,177 | 26,441 | 15,019 |
| Owner occupied | 2,466 | 400 | 629 | 983 | 455 | 30,637 | 5,454 | 7,338 | 12,119 | 5,726 |
| Leased to tenant(s) | 1,745 | 239 | 329 | 721 | 457 | 26,115 | 4,430 | 4,720 | 10,105 | 6,860 |
| Owner occupied and leased | 349 | 62 | 69 | 140 | 78 | 8,873 | 1,786 | 1,767 | 3,242 | 2,078 |
| Unoccupied | 221 | Q | 40 | 115 | 43 | 1,925 | Q | 352 | 975 | 355 |
| Government owned | 776 | 83 | 171 | 289 | 233 | 19,543 | 3,621 | 4,742 | 7,839 | 3,341 |
| Federal | 33 | Q | 9 | 14 | Q | 1,573 | Q | 275 | 835 | 204 |
| State | 185 | 15 | 31 | 77 | 62 | 5,539 | 1,149 | 1,158 | 2,111 | 1,122 |
| Local | 558 | 67 | 131 | 198 | 162 | 12,431 | 2,213 | 3,310 | 4,893 | 2,015 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 4,715 | 661 | 1,118 | 1,881 | 1,054 | 73,702 | 13,304 | 16,815 | 28,772 | 14,811 |
| Business owner or tenant | 724 | 124 | 102 | 308 | 190 | 11,309 | 1,819 | 1,724 | 4,541 | 3,225 |
| Property management | 54 | Q | Q | 24 | 16 | 1,250 | Q | Q | 652 | 233 |
| Other | 64 | Q | Q | 33 | Q | 832 | Q | Q | 315 | Q |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 4,876 | 682 | 1,136 | 1,947 | 1,112 | 76,271 | 13,567 | 17,159 | 29,802 | 15,742 |
| Business owner or tenant | 540 | 94 | 77 | 230 | 139 | 8,256 | 1,393 | 1,274 | 3,326 | 2,263 |
| Property management | 35 | Q | Q | 15 | Q | 880 | Q | Q | 345 | Q |
| Other | 106 | 23 | 15 | 55 | 13 | 1,686 | 314 | 345 | 806 | 221 |
| **Number of establishments** | | | | | | | | | | |
| One | 4,205 | 602 | 974 | 1,690 | 939 | 54,994 | 9,527 | 12,503 | 21,742 | 11,222 |
| 2 to 5 | 862 | 150 | 192 | 328 | 193 | 17,756 | 3,305 | 4,207 | 6,503 | 3,742 |
| 6 to 10 | 147 | 19 | 21 | 63 | 44 | 4,425 | 775 | 798 | 1,750 | 1,103 |
| 11 to 20 | 68 | 8 | 8 | 27 | 25 | 3,704 | 833 | 493 | 1,560 | 818 |
| More than 20 | 27 | 3 | 2 | 8 | 14 | 3,821 | 832 | 532 | 1,419 | 1,037 |
| Currently unoccupied | 248 | 24 | 41 | 130 | 53 | 2,393 | 262 | 386 | 1,306 | 439 |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 551 | 921 | 1,485 | 726 | 52,275 | 9,030 | 12,622 | 20,204 | 10,419 |
| Primary or secondary school | 237 | 6 | 28 | 94 | 110 | 4,616 | 508 | 1,027 | 1,988 | 1,093 |
| College or university | 84 | 15 | 11 | 39 | 19 | 4,068 | 738 | 659 | 2,093 | 577 |
| Office complex | 154 | 22 | 31 | 58 | 42 | 3,456 | 759 | 619 | 1,254 | 824 |
| Retail complex | 258 | 36 | 45 | 108 | 69 | 5,159 | 907 | 976 | 2,095 | 1,181 |
| Storage complex | 314 | 35 | 55 | 138 | 86 | 3,212 | 549 | 460 | 1,396 | 808 |
| Religious campus or complex | 197 | 34 | 27 | 83 | 53 | 1,932 | 489 | 261 | 777 | 405 |
| Health care complex | 52 | 14 | 8 | 19 | 12 | 3,362 | 1,130 | 583 | 1,067 | 582 |
| Lodging or resort complex | 65 | Q | Q | 31 | 16 | 1,295 | Q | Q | 539 | 468 |
| Transportation complex | 35 | Q | Q | Q | Q | 554 | Q | Q | Q | Q |
| Government complex | 104 | 14 | 23 | 42 | 26 | 2,107 | 587 | 303 | 720 | 496 |
| Other | 371 | 66 | 64 | 143 | 99 | 5,057 | 629 | 1,085 | 1,950 | 1,393 |
| **Predominant exterior wall material** | | | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 317 | 528 | 934 | 534 | 40,463 | 7,649 | 9,051 | 16,679 | 7,084 |
| Concrete (block or poured) | 1,121 | 140 | 217 | 529 | 236 | 20,726 | 3,608 | 4,010 | 8,153 | 4,955 |
| Concrete panels | 210 | 16 | 21 | 68 | 105 | 8,693 | 804 | 1,694 | 3,158 | 3,037 |
| Siding or shingles | 905 | 239 | 218 | 238 | 210 | 5,750 | 1,589 | 1,395 | 1,389 | 1,377 |
| Metal panels | 933 | 82 | 231 | 458 | 162 | 8,673 | 1,020 | 2,150 | 4,246 | 1,257 |
| Window glass | 17 | 4 | Q | 2 | 10 | 1,340 | 432 | Q | 360 | 323 |
| Other | 37 | Q | Q | Q | Q | 856 | Q | Q | Q | Q |
| No one major type | 21 | Q | Q | Q | Q | 592 | Q | Q | Q | Q |
| **Predominant roof material** | | | | | | | | | | |
| Metal surfacing | 1,672 | 148 | 367 | 858 | 298 | 15,916 | 1,626 | 3,264 | 8,295 | 2,733 |
| Synthetic or rubber | 911 | 175 | 292 | 261 | 183 | 25,817 | 5,880 | 7,502 | 7,742 | 4,692 |
| Built-up | 836 | 90 | 117 | 373 | 256 | 21,835 | 3,782 | 3,999 | 8,890 | 5,164 |
| Slate or tile shingles | 406 | 66 | 47 | 162 | 130 | 4,306 | 842 | 390 | 1,865 | 1,209 |
| Wooden materials (including shingles) | 157 | 27 | Q | 58 | 45 | 1,139 | 161 | Q | 383 | 469 |
| Asphalt, fiberglass, or other shingles | 1,483 | 282 | 371 | 498 | 332 | 15,104 | 2,668 | 3,268 | 5,843 | 3,324 |
| Concrete | 51 | 10 | Q | 25 | 11 | 1,642 | 298 | Q | 860 | 403 |
| Other | 24 | Q | Q | Q | Q | 678 | Q | Q | Q | Q |
| No one major type | 18 | Q | Q | Q | Q | 657 | Q | Q | Q | Q |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Roof characteristics** | | | | | | | | | | |
| Roof tilt | | | | | | | | | | |
| Flat | 1,960 | 286 | 358 | 764 | 552 | 49,623 | 10,061 | 10,574 | 18,121 | 10,866 |
| Shallow pitch | 2,148 | 213 | 493 | 955 | 487 | 23,853 | 2,542 | 5,009 | 11,004 | 5,297 |
| Steeper pitch | 1,449 | 306 | 386 | 528 | 229 | 13,617 | 2,930 | 3,336 | 5,154 | 2,197 |
| Cool roof | 740 | 76 | 132 | 280 | 252 | 19,630 | 3,382 | 3,666 | 7,530 | 5,053 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 2,094 | 352 | 521 | 789 | 432 | 42,216 | 9,263 | 10,097 | 15,393 | 7,462 |
| Addition or annex | 444 | 63 | 136 | 176 | 69 | 13,022 | 2,574 | 4,082 | 4,609 | 1,757 |
| Reduction in floorspace | 71 | 11 | 19 | 30 | 12 | 1,753 | 584 | 273 | 626 | 270 |
| Roof replacement | 987 | 178 | 272 | 359 | 178 | 20,917 | 5,460 | 5,397 | 6,962 | 3,097 |
| Exterior wall replacement | 194 | 31 | 50 | 83 | 31 | 4,230 | 910 | 1,074 | 1,442 | 805 |
| Interior wall reconfiguration | 889 | 181 | 210 | 295 | 204 | 21,340 | 5,019 | 5,201 | 6,854 | 4,266 |
| Window replacement | 560 | 117 | 157 | 184 | 102 | 12,265 | 3,404 | 3,041 | 3,773 | 2,048 |
| HVAC equipment upgrade | 1,101 | 191 | 291 | 421 | 197 | 26,779 | 6,477 | 6,541 | 9,363 | 4,398 |
| Lighting upgrade | 982 | 187 | 232 | 352 | 211 | 25,503 | 6,009 | 6,104 | 8,829 | 4,560 |
| Electrical upgrade | 747 | 155 | 180 | 273 | 139 | 16,160 | 3,968 | 4,004 | 5,482 | 2,707 |
| Plumbing system upgrade | 644 | 124 | 173 | 231 | 116 | 13,828 | 3,378 | 3,447 | 4,629 | 2,375 |
| Insulation upgrade | 382 | 75 | 123 | 133 | 52 | 7,607 | 1,749 | 2,197 | 2,358 | 1,304 |
| Fire, safety, or security upgrade | 616 | 145 | 147 | 210 | 114 | 17,196 | 4,602 | 3,814 | 5,875 | 2,905 |
| Structural upgrade | 152 | 38 | 43 | 40 | 30 | 3,913 | 732 | 887 | 1,201 | 1,094 |
| Other | 39 | Q | Q | Q | Q | 848 | Q | Q | Q | Q |
| No renovations | 3,160 | 415 | 660 | 1,311 | 775 | 39,154 | 5,368 | 7,826 | 16,185 | 9,776 |
| Buildings constructed 2008 or later | 303 | 38 | 57 | 147 | 61 | 5,723 | 903 | 997 | 2,701 | 1,122 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 770 | 1,171 | 2,086 | 1,207 | 84,869 | 15,291 | 18,560 | 33,026 | 17,992 |
| Natural gas | 2,933 | 433 | 843 | 950 | 707 | 58,725 | 11,068 | 15,025 | 19,900 | 12,732 |
| Fuel oil | 467 | 217 | 77 | 131 | 43 | 20,200 | 6,079 | 3,935 | 7,051 | 3,135 |
| District heat | 48 | 16 | 7 | 18 | 7 | 5,964 | 1,981 | 906 | 2,191 | 886 |
| District chilled water | 54 | 7 | 2 | 35 | 9 | 4,608 | 794 | 585 | 2,479 | 749 |
| Propane | 510 | 106 | 133 | 187 | 84 | 7,706 | 1,746 | 1,909 | 2,567 | 1,484 |
| Other | 172 | 51 | 50 | 34 | 37 | 3,826 | 1,087 | 798 | 907 | 1,034 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,858 | 310 | 493 | 1,380 | 676 | 49,030 | 7,276 | 8,638 | 22,558 | 10,559 |
| Natural gas | 2,612 | 392 | 819 | 782 | 618 | 49,511 | 9,352 | 14,031 | 15,438 | 10,690 |
| Fuel oil | 270 | 170 | 39 | 53 | Q | 4,351 | 2,851 | 667 | 765 | Q |
| District heat | 48 | 16 | 7 | 18 | 7 | 5,925 | 1,981 | 906 | 2,171 | 867 |
| Propane | 342 | 59 | 105 | 124 | 54 | 3,067 | 653 | 1,003 | 927 | 484 |
| Other | 101 | Q | 32 | Q | Q | 1,010 | 206 | 301 | Q | Q |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 1,819 | 138 | 193 | 1,043 | 445 | 26,205 | 2,188 | 2,982 | 15,118 | 5,917 |
| Natural gas | 2,322 | 361 | 768 | 647 | 547 | 42,988 | 8,366 | 13,084 | 12,312 | 9,226 |
| Fuel oil | 205 | 141 | Q | 32 | Q | 2,542 | 1,988 | Q | 299 | Q |
| District heat | 47 | 15 | 6 | 18 | 7 | 5,797 | 1,954 | 864 | 2,112 | 867 |
| Propane | 261 | 46 | 84 | 92 | 38 | 1,948 | 377 | 723 | 613 | 235 |
| Other | 67 | Q | Q | Q | Q | 598 | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 4,413 | 583 | 967 | 1,861 | 1,001 | 76,034 | 13,303 | 16,826 | 29,950 | 15,955 |
| Natural gas | 12 | 6 | Q | Q | Q | 732 | 305 | Q | Q | Q |
| District chilled water | 54 | 7 | 2 | 35 | 9 | 4,608 | 794 | 585 | 2,479 | 749 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,658 | 324 | 525 | 1,242 | 567 | 42,755 | 6,561 | 7,934 | 19,449 | 8,811 |
| Natural gas | 1,758 | 291 | 493 | 527 | 447 | 39,523 | 7,533 | 10,615 | 12,258 | 9,116 |
| Fuel oil | 77 | 69 | Q | Q | Q | 1,911 | 1,401 | Q | Q | Q |
| District heat | 25 | 9 | 5 | 7 | 4 | 4,551 | 1,641 | 767 | 1,568 | 575 |
| Propane | 142 | 37 | 31 | 42 | 32 | 1,575 | 389 | 392 | 534 | 260 |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 1,010 | 120 | 260 | 439 | 191 | 25,151 | 4,677 | 6,159 | 9,812 | 4,503 |
| Natural gas | 740 | 123 | 163 | 286 | 168 | 24,770 | 5,357 | 5,642 | 8,572 | 5,200 |
| Propane | 144 | 48 | 28 | 53 | Q | 2,001 | 779 | 328 | 663 | 230 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 727 | 1,096 | 1,842 | 1,057 | 80,078 | 15,053 | 18,055 | 30,499 | 16,471 |
| Buildings with cooling | 4,461 | 592 | 970 | 1,891 | 1,007 | 79,294 | 13,949 | 17,144 | 31,734 | 16,467 |
| Buildings with water heating | 4,423 | 671 | 1,014 | 1,740 | 997 | 79,015 | 14,633 | 17,592 | 30,261 | 16,529 |
| Buildings with cooking | 1,589 | 249 | 370 | 664 | 306 | 38,546 | 8,177 | 8,726 | 14,381 | 7,262 |
| Buildings with manufacturing | 259 | 44 | 55 | 83 | 77 | 5,078 | 1,059 | 1,172 | 1,708 | 1,139 |
| Buildings with electricity generation | 410 | 107 | 84 | 141 | 78 | 25,642 | 6,223 | 5,358 | 9,377 | 4,683 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 835 | 79 | 141 | 405 | 210 | 7,015 | 481 | 864 | 3,781 | 1,890 |
| 1 to 50 | 697 | 86 | 103 | 297 | 211 | 10,130 | 1,132 | 1,310 | 3,979 | 3,709 |
| 51 to 99 | 727 | 137 | 137 | 267 | 185 | 14,650 | 2,873 | 2,239 | 6,218 | 3,320 |
| 100 | 3,298 | 503 | 856 | 1,278 | 661 | 55,298 | 11,049 | 14,506 | 20,302 | 9,441 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | 213 | 267 | 355 | 260 | 7,799 | 1,585 | 1,776 | 2,545 | 1,894 |
| 1 to 50 | 1,173 | 196 | 281 | 422 | 273 | 18,891 | 3,558 | 4,741 | 6,189 | 4,403 |
| 51 to 99 | 897 | 156 | 177 | 330 | 234 | 22,728 | 5,081 | 4,697 | 8,462 | 4,487 |
| 100 | 2,391 | 240 | 512 | 1,139 | 500 | 37,676 | 5,311 | 7,706 | 17,083 | 7,576 |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 70 | Q | Q | Q | Q | 322 | Q | Q | Q | Q |
| 1 to 50 | 1,099 | 170 | 292 | 379 | 258 | 12,628 | 2,097 | 2,870 | 4,755 | 2,907 |
| 51 to 99 | 1,666 | 259 | 382 | 614 | 411 | 34,814 | 6,288 | 7,932 | 13,288 | 7,307 |
| 100 | 2,222 | 308 | 427 | 1,011 | 476 | 35,726 | 6,670 | 7,266 | 14,405 | 7,385 |
| Building never open/electricity not used | 501 | 60 | 121 | 216 | 103 | 3,603 | 437 | 773 | 1,710 | 683 |
| **Percent lit during off hours** | | | | | | | | | | |
| Zero | 2,489 | 366 | 528 | 945 | 650 | 24,746 | 3,877 | 5,594 | 9,120 | 6,156 |
| 1 to 50 | 2,441 | 360 | 592 | 990 | 499 | 50,753 | 9,299 | 11,464 | 20,182 | 9,808 |
| 51 to 100 | 202 | 40 | 25 | 97 | 40 | 6,926 | 1,801 | 953 | 2,567 | 1,605 |
| Building always open with no "off hours" | 102 | 5 | 25 | 54 | 18 | 2,443 | 314 | 550 | 1,157 | 423 |
| Electricity not used | 323 | 36 | 66 | 161 | 61 | 2,225 | 243 | 360 | 1,254 | 368 |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 628 | 48 | 53 | 392 | 134 | 11,846 | 1,397 | 1,068 | 6,927 | 2,453 |
| Furnaces | 755 | 85 | 252 | 282 | 137 | 8,654 | 1,244 | 2,511 | 3,363 | 1,536 |
| Individual space heaters | 1,247 | 239 | 340 | 381 | 287 | 20,766 | 4,918 | 5,735 | 6,519 | 3,594 |
| District heat | 48 | 16 | 7 | 18 | 7 | 5,925 | 1,981 | 906 | 2,171 | 867 |
| Boilers | 544 | 221 | 148 | 98 | 77 | 22,443 | 6,447 | 6,666 | 5,784 | 3,545 |
| Packaged heating units | 2,802 | 347 | 644 | 1,127 | 683 | 49,188 | 7,186 | 10,894 | 20,049 | 11,059 |
| Other | 62 | Q | 22 | 16 | 14 | 1,574 | Q | 370 | 550 | 339 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 178 | 480 | 633 | 255 | 14,765 | 1,695 | 4,347 | 5,895 | 2,828 |
| Heat pumps | 692 | 53 | 65 | 409 | 165 | 12,538 | 1,490 | 1,024 | 7,108 | 2,916 |
| Individual air conditioners | 709 | 190 | 147 | 257 | 114 | 12,420 | 3,845 | 2,585 | 4,263 | 1,727 |
| District chilled water | 54 | 7 | 2 | 35 | 9 | 4,608 | 794 | 585 | 2,479 | 749 |
| Central chillers | 163 | 26 | 37 | 70 | 29 | 17,041 | 3,489 | 4,475 | 6,460 | 2,617 |
| Packaged air conditioning units | 1,909 | 253 | 362 | 786 | 508 | 45,153 | 8,697 | 9,816 | 17,185 | 9,455 |
| Swamp coolers | 109 | Q | Q | Q | 89 | 1,918 | Q | Q | 469 | 1,340 |
| Other | Q | Q | Q | Q | Q | 328 | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 1,874 | 315 | 448 | 744 | 367 | 27,558 | 5,356 | 6,886 | 10,048 | 5,268 |
| Cooling | 1,971 | 313 | 452 | 836 | 370 | 30,702 | 6,314 | 7,210 | 11,668 | 5,510 |
| **Water-heating equipment** | | | | | | | | | | |
| Centralized system | 3,348 | 493 | 806 | 1,322 | 728 | 47,534 | 9,128 | 11,316 | 17,460 | 9,631 |
| Distributed system | 690 | 123 | 133 | 264 | 170 | 12,688 | 2,383 | 2,335 | 4,938 | 3,032 |
| Combination of centralized and distributed system | 385 | 56 | 76 | 154 | 99 | 18,793 | 3,122 | 3,942 | 7,863 | 3,866 |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | |
| Incandescent | 1,826 | 293 | 460 | 721 | 353 | 38,406 | 7,565 | 9,038 | 14,581 | 7,222 |
| Standard fluorescent | 4,649 | 684 | 1,018 | 1,890 | 1,057 | 80,081 | 14,473 | 17,514 | 31,363 | 16,732 |
| Compact fluorescent | 2,302 | 354 | 542 | 840 | 566 | 53,816 | 10,771 | 11,841 | 20,042 | 11,163 |
| High-intensity discharge (HID) | 525 | 76 | 110 | 219 | 121 | 23,396 | 4,510 | 5,357 | 9,347 | 4,182 |
| Halogen | 905 | 148 | 203 | 377 | 177 | 28,059 | 5,267 | 6,169 | 10,970 | 5,653 |
| LED | 473 | 83 | 114 | 164 | 113 | 22,071 | 4,752 | 5,148 | 7,559 | 4,612 |
| Other | 10 | Q | Q | Q | Q | 446 | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | | |
| Any refrigeration | 3,984 | 593 | 898 | 1,630 | 864 | 73,645 | 13,612 | 16,570 | 28,755 | 14,709 |
| Walk-in units | 811 | 139 | 175 | 332 | 166 | 28,361 | 5,870 | 6,331 | 10,777 | 5,384 |
| Cases or cabinets | 915 | 165 | 203 | 357 | 190 | 28,719 | 6,066 | 6,803 | 10,386 | 5,464 |
| Large cold storage areas | 78 | 12 | 14 | 33 | 19 | 4,171 | 569 | 972 | 1,700 | 930 |
| Commercial ice makers | 846 | 101 | 167 | 412 | 166 | 32,734 | 5,573 | 6,598 | 14,516 | 6,048 |
| Residential-type or compact units | 3,388 | 511 | 795 | 1,342 | 740 | 62,381 | 11,436 | 14,257 | 24,189 | 12,499 |
| Vending machines | 960 | 135 | 194 | 436 | 195 | 43,936 | 8,448 | 9,673 | 17,627 | 8,188 |
| No refrigeration | 1,573 | 213 | 340 | 617 | 404 | 13,448 | 1,922 | 2,350 | 5,525 | 3,651 |
| **Office equipment (more than one may apply)** | | | | | | | | | | |
| Desktop computers | 3,977 | 593 | 876 | 1,550 | 957 | 77,063 | 14,116 | 16,861 | 29,686 | 16,400 |
| With flat screen monitors | 3,847 | 569 | 841 | 1,507 | 931 | 76,160 | 13,956 | 16,628 | 29,347 | 16,229 |
| With multiple monitors | 911 | 120 | 183 | 358 | 250 | 30,946 | 5,289 | 6,407 | 12,095 | 7,155 |
| Laptop computers | 2,730 | 412 | 598 | 1,074 | 646 | 63,486 | 11,774 | 13,895 | 24,921 | 12,896 |
| Dedicated servers | 1,748 | 254 | 358 | 693 | 442 | 53,369 | 10,087 | 11,271 | 20,565 | 11,447 |
| Laser printers | 2,339 | 355 | 524 | 857 | 603 | 54,256 | 10,317 | 12,158 | 20,460 | 11,320 |
| Inkjet printers | 2,187 | 311 | 468 | 916 | 493 | 36,235 | 6,559 | 7,682 | 14,297 | 7,697 |
| FAX machines | 3,185 | 486 | 684 | 1,258 | 756 | 66,682 | 12,733 | 14,439 | 25,795 | 13,715 |
| Photocopiers | 2,163 | 355 | 474 | 808 | 526 | 59,277 | 11,654 | 13,053 | 22,099 | 12,471 |
| **Number of desktop computers** | | | | | | | | | | |
| None | 1,581 | 212 | 361 | 697 | 310 | 10,030 | 1,418 | 2,058 | 4,594 | 1,960 |
| 1 to 4 | 2,039 | 320 | 484 | 780 | 454 | 15,669 | 2,457 | 3,582 | 6,273 | 3,356 |
| 5 to 9 | 821 | 91 | 186 | 334 | 210 | 9,422 | 1,392 | 2,120 | 3,528 | 2,381 |
| 10 to 19 | 482 | 86 | 81 | 188 | 127 | 9,388 | 1,644 | 1,826 | 3,531 | 2,388 |
| 20 to 49 | 355 | 48 | 62 | 140 | 105 | 13,094 | 2,327 | 2,591 | 5,347 | 2,830 |
| 50 to 99 | 143 | 20 | 33 | 58 | 33 | 8,284 | 1,365 | 1,984 | 3,243 | 1,692 |
| 100 to 249 | 92 | 20 | 20 | 31 | 21 | 9,728 | 2,303 | 2,202 | 3,391 | 1,832 |
| 250 or more | 44 | 8 | 10 | 18 | 8 | 11,478 | 2,628 | 2,556 | 4,373 | 1,921 |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **Number of laptop computers** | | | | | | | | | | |
| None | 2,827 | 394 | 639 | 1,173 | 621 | 23,607 | 3,760 | 5,024 | 9,358 | 5,464 |
| 1 to 4 | 1,944 | 283 | 451 | 755 | 455 | 21,161 | 3,350 | 5,045 | 8,080 | 4,687 |
| 5 to 9 | 350 | 53 | 62 | 142 | 92 | 8,345 | 1,406 | 1,478 | 3,568 | 1,894 |
| 10 to 19 | 181 | 33 | 29 | 71 | 49 | 8,343 | 1,500 | 1,473 | 3,386 | 1,984 |
| 20 to 49 | 144 | 20 | 28 | 63 | 33 | 9,643 | 1,471 | 2,195 | 3,794 | 2,183 |
| 50 to 99 | 58 | 9 | 15 | 22 | 12 | 5,234 | 1,218 | 1,312 | 1,827 | 877 |
| 100 to 249 | 35 | 9 | 9 | 13 | 3 | 5,217 | 1,414 | 1,022 | 2,108 | 673 |
| 250 or more | 20 | 4 | 5 | 9 | 2 | 5,542 | 1,415 | 1,370 | 2,159 | 598 |
| **Number of dedicated servers** | | | | | | | | | | |
| None | 3,809 | 551 | 879 | 1,554 | 825 | 33,724 | 5,448 | 7,648 | 13,715 | 6,913 |
| 1 to 4 | 1,562 | 227 | 325 | 618 | 392 | 34,097 | 6,193 | 7,200 | 13,500 | 7,203 |
| 5 to 9 | 97 | 14 | 20 | 37 | 26 | 6,241 | 1,092 | 1,435 | 2,226 | 1,487 |
| 10 to 19 | 50 | 7 | 6 | 25 | 12 | 5,711 | 1,117 | 1,006 | 2,325 | 1,263 |
| 20 to 49 | 25 | 3 | 5 | 9 | 8 | 3,758 | 688 | 982 | 1,309 | 779 |
| 50 or more | 13 | 3 | 2 | 4 | 4 | 3,562 | 996 | 649 | 1,204 | 714 |
| **Number of photocopiers** | | | | | | | | | | |
| None | 3,394 | 451 | 763 | 1,438 | 742 | 27,816 | 3,880 | 5,866 | 12,181 | 5,889 |
| One | 1,325 | 216 | 299 | 485 | 325 | 17,080 | 2,604 | 3,942 | 6,129 | 4,405 |
| 2 to 4 | 648 | 104 | 139 | 246 | 158 | 20,312 | 3,581 | 4,583 | 8,063 | 4,085 |
| 5 to 9 | 116 | 18 | 23 | 47 | 27 | 8,863 | 1,946 | 2,167 | 3,203 | 1,547 |
| 10 or more | 75 | 16 | 13 | 30 | 15 | 13,022 | 3,523 | 2,361 | 4,704 | 2,434 |
| **Number of TVs or video displays** | | | | | | | | | | |
| None | 2,718 | 394 | 614 | 1,076 | 633 | 24,339 | 4,054 | 5,090 | 9,483 | 5,711 |
| One | 1,145 | 164 | 273 | 471 | 237 | 9,990 | 1,416 | 2,292 | 4,276 | 2,006 |
| 2 to 4 | 1,035 | 154 | 212 | 419 | 250 | 16,465 | 2,930 | 4,056 | 6,314 | 3,165 |
| 5 to 9 | 314 | 51 | 72 | 126 | 66 | 8,148 | 1,824 | 1,450 | 3,162 | 1,711 |
| 10 to 19 | 154 | 20 | 31 | 69 | 34 | 8,168 | 1,799 | 1,893 | 3,051 | 1,424 |
| 20 to 49 | 106 | 13 | 19 | 46 | 28 | 8,058 | 1,443 | 1,668 | 3,188 | 1,759 |
| 50 to 99 | 48 | 3 | 10 | 22 | 13 | 4,378 | 382 | 929 | 2,036 | 1,031 |
| 100 or more | 37 | 7 | 7 | 17 | 7 | 7,547 | 1,685 | 1,541 | 2,769 | 1,552 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 153 | 18 | 34 | 66 | 35 | 9,884 | 1,924 | 2,262 | 3,763 | 1,934 |
| Fast food or small restaurant | 173 | 29 | 31 | 77 | 37 | 9,787 | 1,751 | 1,774 | 3,797 | 2,464 |
| Cafeteria or large restaurant | 130 | 29 | 28 | 55 | 18 | 15,222 | 3,585 | 3,455 | 5,947 | 2,236 |
| Commercial kitchen/ food preparation area | 282 | 45 | 72 | 109 | 56 | 16,150 | 3,254 | 3,952 | 6,092 | 2,852 |
| Small kitchen area | 736 | 114 | 183 | 306 | 132 | 14,054 | 3,105 | 3,413 | 5,121 | 2,414 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 97 | 14 | 25 | 31 | 27 | 11,105 | 2,377 | 2,488 | 3,873 | 2,366 |
| Computer-based training room | 244 | 34 | 47 | 112 | 51 | 17,723 | 3,341 | 3,950 | 7,121 | 3,311 |
| Student or public computer center | 238 | 40 | 46 | 91 | 61 | 14,341 | 2,710 | 3,338 | 5,999 | 2,293 |

## Table B3. Census region, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | North-east | Mid-west | South | West | All buildings | North-east | Mid-west | South | West |
| **All buildings** | 5,557 | 805 | 1,237 | 2,247 | 1,267 | 87,093 | 15,534 | 18,919 | 34,279 | 18,360 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 601 | 107 | 141 | 147 | 206 | 30,749 | 6,911 | 7,916 | 9,051 | 6,870 |
| Regular HVAC maintenance | 3,178 | 480 | 674 | 1,279 | 744 | 69,244 | 12,982 | 15,173 | 26,573 | 14,517 |
| Building automation system (BAS)[2] | 781 | 117 | 160 | 291 | 212 | 37,051 | 6,934 | 7,996 | 14,578 | 7,542 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | |
| Multipaned windows | 3,012 | 483 | 842 | 1,072 | 614 | 60,362 | 11,457 | 15,282 | 22,581 | 11,041 |
| Tinted window glass | 1,875 | 155 | 373 | 820 | 527 | 45,025 | 6,313 | 9,069 | 18,988 | 10,654 |
| Reflective window glass | 549 | 61 | 114 | 205 | 169 | 15,908 | 2,344 | 3,813 | 5,455 | 4,296 |
| External overhangs or awnings | 1,867 | 204 | 393 | 820 | 450 | 32,188 | 4,290 | 6,494 | 13,858 | 7,547 |
| Skylights or atriums | 591 | 80 | 94 | 210 | 207 | 22,261 | 4,058 | 4,091 | 8,083 | 6,028 |
| Light scheduling | 918 | 131 | 204 | 359 | 224 | 30,263 | 5,838 | 6,651 | 10,737 | 7,038 |
| Occupancy sensors | 813 | 137 | 155 | 256 | 266 | 35,871 | 7,732 | 7,916 | 11,922 | 8,300 |
| Multi-level lighting or dimming | 349 | 53 | 69 | 134 | 93 | 14,534 | 2,335 | 3,177 | 5,424 | 3,598 |
| Daylight harvesting | 125 | 19 | 29 | 53 | 24 | 6,114 | 1,032 | 1,522 | 1,996 | 1,564 |
| Demand responsive lighting | 176 | Q | 35 | 63 | Q | 4,738 | 648 | 912 | 1,692 | 1,487 |
| Building automation system (BAS) for lighting[2] | 208 | 32 | 36 | 83 | 57 | 12,068 | 2,159 | 2,448 | 4,507 | 2,953 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | 582 | 842 | 1,398 | 877 | 63,167 | 12,290 | 14,126 | 23,309 | 13,442 |
| Cooling | 3,517 | 473 | 764 | 1,438 | 841 | 62,516 | 11,450 | 13,442 | 24,448 | 13,176 |
| Lighting | 4,757 | 707 | 1,055 | 1,898 | 1,096 | 78,594 | 14,259 | 17,263 | 30,541 | 16,531 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 141 | 231 | 372 | 273 | 535 | 202 | 423 | 175 | 426 |
| 5,001 to 10,000 | 1,229 | 72 | 100 | 144 | 113 | 245 | 83 | 164 | 72 | 239 |
| 10,001 to 25,000 | 884 | 57 | 95 | 115 | 68 | 174 | 49 | 103 | 62 | 159 |
| 25,001 to 50,000 | 332 | 18 | 29 | 55 | 27 | 64 | 15 | 48 | 13 | 62 |
| 50,001 to 100,000 | 199 | 9 | 28 | 27 | 14 | 43 | 15 | 30 | 10 | 24 |
| 100,001 to 200,000 | 90 | 3 | 15 | 13 | 4 | 20 | 4 | 13 | 3 | 14 |
| 200,001 to 500,000 | 38 | 2 | 5 | 8 | 2 | 7 | 2 | 4 | 3 | 5 |
| Over 500,000 | 8 | Q | 2 | 1 | (*) | 2 | Q | 1 | 1 | 1 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 16 | 29 | 44 | 23 | 87 | 14 | 58 | 24 | 94 |
| Food sales | 177 | Q | Q | Q | Q | 40 | Q | Q | Q | 24 |
| Food service | 380 | Q | 36 | 45 | 32 | 78 | 35 | 47 | 22 | 59 |
| Health care | 157 | 4 | 18 | 21 | 23 | 23 | 10 | 21 | 18 | 19 |
| Inpatient | 10 | 1 | 1 | Q | 1 | Q | Q | 1 | (*) | 1 |
| Outpatient | 147 | Q | 17 | 20 | 22 | 21 | Q | 20 | 17 | 18 |
| Lodging | 158 | Q | 20 | 9 | 14 | 33 | 14 | 22 | 12 | 26 |
| Mercantile | 602 | 34 | 64 | 84 | 47 | 142 | 31 | 78 | 31 | 91 |
| Retail (other than mall) | 438 | Q | 54 | 62 | 41 | 92 | Q | 64 | 22 | 61 |
| Enclosed and strip malls | 164 | Q | 9 | 22 | 6 | 51 | Q | 14 | 9 | 30 |
| Office | 1,012 | 54 | 94 | 154 | 76 | 198 | 63 | 129 | 65 | 179 |
| Public assembly | 352 | 36 | 29 | 65 | 34 | 45 | 34 | 31 | 16 | 61 |
| Public order and safety | 84 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Religious worship | 412 | Q | 28 | 50 | 42 | 80 | 57 | 58 | 22 | 52 |
| Service | 619 | 41 | 68 | 102 | 75 | 100 | 41 | 89 | Q | 78 |
| Warehouse and storage | 796 | 28 | 61 | 79 | 84 | 177 | 22 | 126 | 46 | 173 |
| Other | 125 | Q | Q | Q | Q | 17 | Q | Q | Q | 27 |
| Vacant | 296 | Q | Q | 24 | 27 | 58 | Q | 68 | Q | 34 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 46 | 66 | 54 | 52 | 45 | 34 | 24 | Q | 29 |
| 1920 to 1945 | 488 | 24 | 101 | 85 | 55 | 57 | 25 | 46 | 22 | 72 |
| 1946 to 1959 | 599 | 31 | 64 | 71 | 39 | 112 | 36 | 81 | 30 | 134 |
| 1960 to 1969 | 639 | 30 | 70 | 86 | 73 | 117 | 46 | 68 | 23 | 124 |
| 1970 to 1979 | 684 | 29 | 46 | 107 | 53 | 126 | 47 | 100 | 54 | 121 |
| 1980 to 1989 | 915 | 45 | 41 | 91 | 81 | 205 | 60 | 162 | 63 | 168 |
| 1990 to 1999 | 845 | 35 | 55 | 131 | 72 | 174 | 67 | 144 | 47 | 121 |
| 2000 to 2003 | 375 | 21 | 25 | 46 | 34 | 83 | 16 | 60 | 28 | 62 |
| 2004 to 2007 | 347 | Q | 15 | 33 | 16 | 91 | 22 | 51 | 38 | Q |
| 2008 to 2012 | 303 | Q | 20 | 30 | 26 | 80 | Q | 50 | 21 | 39 |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 124 | 236 | 468 | 317 | 803 | 287 | 647 | 249 | 704 |
| Two | 1,158 | 101 | 135 | 173 | 124 | 205 | 63 | 110 | 73 | 175 |
| Three | 374 | 62 | 84 | 73 | 48 | 38 | 10 | 15 | 12 | 31 |
| Four to nine | 177 | 14 | 45 | 20 | 13 | 42 | Q | 12 | 3 | 17 |
| Ten or more | 13 | Q | 3 | 2 | Q | 3 | Q | 1 | 1 | 1 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | | |
| Any elevators | 405 | 31 | 59 | 66 | 35 | 83 | 17 | 38 | 17 | 60 |
| Number of elevators | | | | | | | | | | |
| One | 272 | 24 | 34 | 47 | 27 | 51 | 12 | 26 | 11 | 39 |
| Two to five | 118 | 6 | 21 | 17 | 8 | 28 | 4 | 10 | 5 | 19 |
| Six or more | 16 | (*) | 4 | 2 | 1 | 3 | 1 | 1 | 1 | 2 |
| Any escalators | 10 | Q | 3 | Q | Q | 1 | Q | (*) | Q | 1 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 153 | 262 | 403 | 312 | 517 | 205 | 440 | 177 | 423 |
| 5 to 9 | 1,085 | 72 | 82 | 131 | 93 | 234 | 60 | 155 | 68 | 191 |
| 10 to 19 | 731 | 38 | 68 | 82 | 47 | 147 | 55 | 96 | 53 | 146 |
| 20 to 49 | 513 | 22 | 46 | 70 | 34 | 112 | 32 | 54 | 27 | 116 |
| 50 to 99 | 206 | 9 | 22 | 32 | 9 | 55 | 13 | 28 | 7 | 30 |
| 100 to 249 | 93 | 5 | 16 | 11 | 7 | 21 | 3 | 9 | 5 | 16 |
| 250 or more | 37 | 2 | 9 | 5 | 2 | 6 | 1 | 5 | 2 | 7 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 55 | 95 | 161 | 129 | 184 | 114 | 190 | 75 | 146 |
| 40 to 48 | 1,346 | 66 | 103 | 169 | 133 | 234 | 95 | 207 | 81 | 259 |
| 49 to 60 | 1,244 | 73 | 125 | 160 | 94 | 277 | 61 | 163 | 75 | 216 |
| 61 to 84 | 764 | 61 | 70 | 101 | 54 | 162 | 34 | 74 | 45 | 163 |
| 85 to 167 | 479 | 23 | 52 | 63 | 34 | 112 | 27 | 65 | 22 | 79 |
| Open continuously | 575 | 24 | 60 | 81 | 58 | 122 | 38 | 87 | 40 | 66 |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 4,781 | 266 | 457 | 636 | 430 | 971 | 303 | 685 | 278 | 756 |
| Owner occupied | 2,466 | 148 | 252 | 358 | 270 | 445 | 171 | 367 | 146 | 309 |
| Leased to tenant(s) | 1,745 | 82 | 157 | 219 | 110 | 392 | 92 | 236 | 85 | 372 |
| Owner occupied and leased | 349 | 28 | 34 | 38 | 31 | 84 | 21 | 34 | 24 | 54 |
| Unoccupied | 221 | Q | Q | Q | Q | 49 | Q | 47 | Q | 21 |
| Government owned | 776 | 36 | 47 | 100 | 72 | 121 | 67 | 101 | 61 | 172 |
| Federal | 33 | Q | Q | Q | Q | 4 | Q | Q | Q | Q |
| State | 185 | Q | 10 | 15 | 16 | 40 | 21 | 17 | 22 | 41 |
| Local | 558 | 31 | 36 | 78 | 54 | 77 | 41 | 80 | 33 | 130 |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 4,715 | 243 | 418 | 649 | 470 | 889 | 313 | 680 | 300 | 754 |
| Business owner or tenant | 724 | 48 | 76 | 72 | 30 | 169 | 45 | 94 | 31 | 159 |
| Property management | 54 | Q | Q | Q | Q | 17 | Q | Q | Q | Q |
| Other | 64 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 4,876 | 253 | 429 | 664 | 472 | 933 | 317 | 696 | 311 | 801 |
| Business owner or tenant | 540 | 37 | 58 | 52 | 25 | 122 | 36 | 71 | 22 | 117 |
| Property management | 35 | Q | Q | Q | Q | 12 | Q | Q | Q | Q |
| Other | 106 | Q | Q | Q | Q | 24 | Q | Q | Q | Q |
| **Number of establishments** | | | | | | | | | | |
| One | 4,205 | 219 | 384 | 569 | 405 | 792 | 300 | 598 | 241 | 698 |
| 2 to 5 | 862 | 60 | 90 | 124 | 68 | 185 | 41 | 102 | 53 | 140 |
| 6 to 10 | 147 | Q | 10 | 14 | Q | 40 | Q | 18 | Q | 34 |
| 11 to 20 | 68 | Q | 4 | 7 | Q | 17 | Q | 7 | Q | 20 |
| More than 20 | 27 | Q | 2 | 1 | Q | 7 | Q | 1 | Q | Q |
| Currently unoccupied | 248 | Q | Q | Q | Q | 50 | Q | 60 | Q | 28 |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 173 | 378 | 548 | 374 | 676 | 289 | 520 | 217 | 509 |
| Primary or secondary school | 237 | Q | 5 | 12 | 15 | 45 | Q | 38 | 22 | 88 |
| College or university | 84 | 9 | 6 | 6 | 5 | 17 | Q | 12 | Q | 15 |
| Office complex | 154 | Q | 17 | 22 | Q | 27 | Q | 23 | Q | 30 |
| Retail complex | 258 | Q | 13 | 30 | 15 | 73 | Q | 29 | 15 | 54 |
| Storage complex | 314 | Q | Q | 45 | Q | 77 | Q | 56 | Q | 62 |
| Religious campus or complex | 197 | Q | 17 | Q | Q | 48 | Q | 27 | Q | 48 |
| Health care complex | 52 | Q | 11 | Q | 5 | 7 | 4 | Q | Q | 5 |
| Lodging or resort complex | 65 | Q | Q | Q | Q | 18 | Q | Q | Q | Q |
| Transportation complex | 35 | N | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 104 | Q | 11 | Q | Q | 21 | Q | Q | Q | 15 |
| Other | 371 | 44 | 22 | 36 | 28 | 81 | Q | 48 | 14 | 85 |
| **Predominant exterior wall material** | | | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 81 | 236 | 336 | 191 | 437 | 174 | 323 | 169 | 365 |
| Concrete (block or poured) | 1,121 | 36 | 104 | 149 | 68 | 313 | 64 | 152 | 49 | 188 |
| Concrete panels | 210 | Q | 15 | 16 | 6 | 42 | Q | 24 | 9 | Q |
| Siding or shingles | 905 | 137 | 102 | 126 | 92 | 107 | 61 | 70 | 36 | 174 |
| Metal panels | 933 | 39 | 43 | 91 | 140 | 180 | 65 | 213 | 73 | 89 |
| Window glass | 17 | Q | 3 | Q | N | Q | Q | Q | Q | 10 |
| Other | 37 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 21 | Q | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Predominant roof material** | | | | | | | | | | |
| Metal surfacing | 1,672 | Q | 78 | 156 | 211 | 360 | 160 | 338 | 119 | 179 |
| Synthetic or rubber | 911 | 55 | 120 | 188 | 104 | 151 | 45 | 65 | 62 | 121 |
| Built-up | 836 | 21 | 69 | 78 | 39 | 189 | 45 | 138 | 43 | 213 |
| Slate or tile shingles | 406 | Q | 51 | 36 | Q | 89 | Q | 57 | 28 | 103 |
| Wooden materials (including shingles) | 157 | Q | Q | Q | Q | 35 | Q | Q | Q | 41 |
| Asphalt, fiberglass, or other shingles | 1,483 | 125 | 157 | 244 | 127 | 244 | 95 | 159 | 80 | 252 |
| Concrete | 51 | Q | Q | Q | Q | 18 | Q | Q | Q | 11 |
| Other | 24 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 18 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | | | |
| Roof tilt | | | | | | | | | | |
| Flat | 1,960 | 76 | 210 | 244 | 114 | 421 | 93 | 250 | 110 | 442 |
| Shallow pitch | 2,148 | 84 | 130 | 252 | 241 | 409 | 164 | 382 | 154 | 333 |
| Steeper pitch | 1,449 | 142 | 164 | 239 | 147 | 262 | 113 | 153 | 75 | 154 |
| Cool roof | 740 | Q | 54 | 80 | 52 | 118 | 63 | 99 | 67 | 185 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 2,094 | 130 | 222 | 299 | 222 | 354 | 168 | 267 | 110 | 322 |
| Addition or annex | 444 | 31 | 32 | 78 | 59 | 89 | 37 | 50 | 17 | 52 |
| Reduction in floorspace | 71 | Q | Q | Q | Q | 16 | Q | Q | Q | Q |
| Roof replacement | 987 | 71 | 107 | 147 | 125 | 134 | 101 | 124 | 45 | 132 |
| Exterior wall replacement | 194 | 11 | 20 | 27 | 23 | 35 | 24 | 24 | Q | 24 |
| Interior wall reconfiguration | 889 | 61 | 119 | 138 | 72 | 134 | 62 | 98 | 46 | 158 |
| Window replacement | 560 | 52 | 66 | 96 | 60 | 81 | 44 | 59 | 28 | 75 |
| HVAC equipment upgrade | 1,101 | 69 | 122 | 184 | 107 | 203 | 84 | 135 | 55 | 142 |
| Lighting upgrade | 982 | 66 | 120 | 142 | 90 | 170 | 65 | 118 | 57 | 154 |
| Electrical upgrade | 747 | 58 | 97 | 105 | 75 | 126 | 55 | 93 | 40 | 99 |
| Plumbing system upgrade | 644 | 41 | 83 | 111 | 62 | 109 | 47 | 75 | 34 | 82 |
| Insulation upgrade | 382 | 29 | 46 | 77 | 45 | 61 | 35 | 37 | 14 | 38 |
| Fire, safety, or security upgrade | 616 | 53 | 92 | 88 | 59 | 90 | 46 | 75 | 29 | 85 |
| Structural upgrade | 152 | 22 | 16 | 30 | 13 | 17 | Q | Q | 9 | 21 |
| Other | 39 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No renovations | 3,160 | 153 | 263 | 406 | 254 | 657 | 185 | 469 | 207 | 568 |
| Buildings constructed 2008 or later | 303 | Q | 20 | 30 | 26 | 80 | Q | 50 | 21 | 39 |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 285 | 485 | 706 | 466 | 1,020 | 354 | 712 | 316 | 891 |
| Natural gas | 2,933 | 98 | 335 | 577 | 266 | 387 | 191 | 372 | 218 | 489 |
| Fuel oil | 467 | 115 | 102 | 46 | 31 | 69 | 30 | 32 | 8 | 35 |
| District heat | 48 | Q | 9 | 3 | 4 | 9 | Q | 5 | Q | 5 |
| District chilled water | 54 | Q | Q | 2 | Q | 22 | Q | 6 | 1 | 8 |
| Propane | 510 | 75 | 31 | 37 | 96 | 94 | 49 | 43 | 29 | 55 |
| Other | 172 | Q | 22 | 28 | 22 | 19 | Q | Q | 12 | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,858 | 99 | 211 | 282 | 211 | 704 | 239 | 437 | 165 | 511 |
| Natural gas | 2,612 | 82 | 310 | 559 | 260 | 299 | 168 | 316 | 202 | 416 |
| Fuel oil | 270 | 105 | 65 | 20 | 19 | 29 | Q | Q | Q | Q |
| District heat | 48 | Q | 9 | 3 | 4 | 9 | Q | 5 | Q | 5 |
| Propane | 342 | 38 | 21 | 29 | 76 | 58 | 35 | Q | 24 | Q |
| Other | 101 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 1,819 | 38 | 100 | 90 | 102 | 557 | 153 | 334 | 80 | 365 |
| Natural gas | 2,322 | 75 | 286 | 530 | 238 | 239 | 140 | 268 | 187 | 360 |
| Fuel oil | 205 | 93 | 48 | Q | Q | 21 | Q | Q | Q | Q |
| District heat | 47 | Q | 9 | 3 | 4 | 8 | Q | 5 | Q | 5 |
| Propane | 261 | 33 | Q | Q | 61 | 43 | 28 | Q | Q | Q |
| Other | 67 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 4,413 | 183 | 400 | 599 | 369 | 917 | 329 | 616 | 258 | 743 |
| Natural gas | 12 | Q | 3 | Q | Q | Q | Q | Q | Q | Q |
| District chilled water | 54 | Q | Q | 2 | Q | 22 | Q | 6 | 1 | 8 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,658 | 127 | 197 | 295 | 230 | 665 | 238 | 339 | 130 | 437 |
| Natural gas | 1,758 | 55 | 236 | 350 | 143 | 202 | 92 | 233 | 129 | 317 |
| Fuel oil | 77 | 46 | 23 | Q | Q | Q | Q | Q | Q | Q |
| District heat | 25 | Q | Q | 2 | Q | Q | Q | Q | Q | 3 |
| Propane | 142 | 28 | Q | Q | 24 | 21 | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 1,010 | 53 | 67 | 161 | 99 | 206 | 98 | 135 | 58 | 133 |
| Natural gas | 740 | 33 | 90 | 120 | 43 | 124 | 59 | 103 | 36 | 132 |
| Propane | 144 | Q | 10 | Q | 23 | 31 | Q | Q | Q | Q |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 264 | 463 | 670 | 426 | 873 | 336 | 633 | 293 | 764 |
| Buildings with cooling | 4,461 | 187 | 405 | 601 | 370 | 935 | 335 | 621 | 259 | 748 |
| Buildings with water heating | 4,423 | 235 | 436 | 629 | 385 | 856 | 325 | 560 | 260 | 737 |
| Buildings with cooking | 1,589 | 104 | 145 | 233 | 137 | 307 | 144 | 213 | 84 | 222 |
| Buildings with manufacturing | 259 | 20 | 25 | 29 | 26 | 31 | Q | 41 | Q | 63 |
| Buildings with electricity generation | 410 | 39 | 68 | 53 | 31 | 71 | 29 | 40 | 19 | 59 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 835 | 38 | 41 | 65 | 76 | 218 | 34 | 153 | 45 | 165 |
| 1 to 50 | 697 | 32 | 55 | 56 | 47 | 137 | 40 | 121 | 32 | 179 |
| 51 to 99 | 727 | 53 | 84 | 76 | 61 | 127 | 44 | 96 | 32 | 153 |
| 100 | 3,298 | 179 | 324 | 538 | 318 | 610 | 252 | 416 | 230 | 432 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | 115 | 99 | 134 | 133 | 156 | 35 | 164 | 79 | 181 |
| 1 to 50 | 1,173 | 57 | 139 | 174 | 107 | 198 | 62 | 163 | 54 | 220 |
| 51 to 99 | 897 | 57 | 99 | 112 | 65 | 171 | 60 | 99 | 35 | 199 |
| 100 | 2,391 | 72 | 168 | 314 | 197 | 567 | 213 | 359 | 171 | 329 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 70 | N | Q | Q | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 1,099 | 55 | 115 | 171 | 121 | 184 | 60 | 135 | 57 | 201 |
| 51 to 99 | 1,666 | 115 | 145 | 245 | 137 | 319 | 80 | 215 | 109 | 302 |
| 100 | 2,222 | 98 | 210 | 252 | 175 | 486 | 201 | 324 | 121 | 355 |
| Building never open/electricity not used | 501 | Q | Q | 58 | 64 | 95 | 26 | 95 | 42 | 61 |
| **Percent lit during off hours** | | | | | | | | | | |
| Zero | 2,489 | 150 | 216 | 267 | 261 | 452 | 157 | 335 | 173 | 478 |
| 1 to 50 | 2,441 | 122 | 238 | 400 | 192 | 492 | 171 | 327 | 126 | 373 |
| 51 to 100 | 202 | 13 | 26 | 18 | Q | 49 | 23 | 26 | 13 | 27 |
| Building always open with no "off hours" | 102 | Q | 5 | Q | Q | 27 | Q | 25 | Q | 13 |
| Electricity not used | 323 | Q | Q | Q | 37 | 71 | Q | 74 | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 628 | 14 | 34 | 23 | 31 | 279 | 51 | 62 | 25 | 109 |
| Furnaces | 755 | 27 | 58 | 159 | 92 | 87 | 58 | 137 | 53 | 84 |
| Individual space heaters | 1,247 | 92 | 147 | 184 | 157 | 162 | 88 | 131 | 102 | 185 |
| District heat | 48 | Q | 9 | 3 | 4 | 9 | Q | 5 | Q | 5 |
| Boilers | 544 | 87 | 134 | 101 | 47 | 52 | 15 | 30 | 25 | 52 |
| Packaged heating units | 2,802 | 112 | 235 | 410 | 235 | 504 | 225 | 399 | 178 | 505 |
| Other | 62 | Q | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 53 | 124 | 305 | 175 | 251 | 112 | 270 | 73 | 182 |
| Heat pumps | 692 | 16 | 38 | 33 | 32 | 296 | 54 | 59 | 31 | 134 |
| Individual air conditioners | 709 | 67 | 123 | 80 | 68 | 121 | 54 | 81 | 23 | 91 |
| District chilled water | 54 | Q | Q | 2 | Q | 22 | Q | 6 | 1 | 8 |
| Central chillers | 163 | 12 | 14 | 24 | 13 | 40 | 8 | 22 | 12 | 18 |
| Packaged air conditioning units | 1,909 | 81 | 172 | 235 | 127 | 376 | 156 | 254 | 125 | 383 |
| Swamp coolers | 109 | Q | Q | Q | N | Q | N | Q | 36 | 53 |
| Other | Q | Q | Q | Q | Q | Q | N | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 1,874 | 106 | 208 | 268 | 179 | 349 | 130 | 265 | 99 | 269 |
| Cooling | 1,971 | 95 | 219 | 271 | 181 | 424 | 139 | 273 | 87 | 283 |
| **Water-heating equipment** | | | | | | | | | | |
| Centralized system | 3,348 | 166 | 327 | 490 | 316 | 617 | 268 | 437 | 195 | 533 |
| Distributed system | 690 | 40 | 83 | 90 | 43 | 160 | 28 | 76 | 36 | 135 |
| Combination of centralized and distributed system | 385 | 30 | 26 | 49 | 27 | 79 | 29 | 46 | 29 | 69 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | |
| Incandescent | 1,826 | 111 | 182 | 276 | 183 | 353 | 149 | 219 | 105 | 247 |
| Standard fluorescent | 4,649 | 236 | 448 | 620 | 398 | 948 | 319 | 624 | 269 | 788 |
| Compact fluorescent | 2,302 | 139 | 214 | 349 | 194 | 422 | 136 | 282 | 132 | 433 |
| High-intensity discharge (HID) | 525 | 34 | 41 | 73 | 37 | 122 | 29 | 67 | 27 | 95 |
| Halogen | 905 | 70 | 79 | 138 | 64 | 196 | 44 | 137 | 45 | 132 |
| LED | 473 | 36 | 47 | 80 | 34 | 96 | 29 | 38 | 26 | 87 |
| Other | 10 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | | |
| Any refrigeration | 3,984 | 212 | 381 | 566 | 332 | 789 | 311 | 530 | 222 | 641 |
| Walk-in units | 811 | 59 | 81 | 113 | 62 | 180 | 51 | 100 | 43 | 122 |
| Cases or cabinets | 915 | 68 | 98 | 132 | 72 | 191 | 66 | 100 | 51 | 138 |
| Large cold storage areas | 78 | Q | 11 | 9 | Q | 19 | Q | 7 | Q | 14 |
| Commercial ice makers | 846 | 36 | 64 | 111 | 55 | 216 | 77 | 119 | 49 | 118 |
| Residential-type or compact units | 3,388 | 186 | 325 | 495 | 300 | 640 | 261 | 441 | 185 | 554 |
| Vending machines | 960 | 47 | 88 | 117 | 77 | 220 | 89 | 126 | 51 | 145 |
| No refrigeration | 1,573 | 90 | 122 | 170 | 170 | 303 | 59 | 256 | 116 | 287 |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Office equipment (more than one may apply)** | | | | | | | | | | |
| Desktop computers | 3,977 | 209 | 384 | 549 | 327 | 805 | 247 | 498 | 233 | 724 |
| With flat screen monitors | 3,847 | 201 | 368 | 529 | 312 | 786 | 232 | 489 | 223 | 709 |
| With multiple monitors | 911 | 37 | 83 | 126 | 57 | 192 | 51 | 115 | 64 | 186 |
| Laptop computers | 2,730 | 151 | 261 | 385 | 213 | 557 | 179 | 338 | 155 | 492 |
| Dedicated servers | 1,748 | 100 | 154 | 229 | 129 | 349 | 105 | 239 | 110 | 332 |
| Laser printers | 2,339 | 121 | 234 | 339 | 185 | 457 | 130 | 270 | 155 | 448 |
| Inkjet printers | 2,187 | 112 | 199 | 269 | 199 | 469 | 143 | 304 | 111 | 382 |
| FAX machines | 3,185 | 162 | 325 | 447 | 238 | 648 | 191 | 420 | 183 | 573 |
| Photocopiers | 2,163 | 138 | 217 | 309 | 165 | 396 | 141 | 271 | 129 | 397 |
| **Number of desktop computers** | | | | | | | | | | |
| None | 1,581 | 93 | 120 | 186 | 175 | 287 | 122 | 288 | 105 | 205 |
| 1 to 4 | 2,039 | 117 | 204 | 295 | 189 | 398 | 126 | 256 | 117 | 337 |
| 5 to 9 | 821 | Q | 67 | 116 | 70 | 171 | 61 | 102 | 46 | 164 |
| 10 to 19 | 482 | 37 | 49 | 52 | 29 | 98 | 26 | 64 | 35 | 92 |
| 20 to 49 | 355 | 17 | 32 | 40 | 22 | 80 | 19 | 40 | 19 | 86 |
| 50 to 99 | 143 | 7 | 13 | 25 | 8 | 29 | 9 | 20 | 6 | 26 |
| 100 to 249 | 92 | 6 | 14 | 14 | 6 | 20 | 3 | 8 | 7 | 14 |
| 250 or more | 44 | 2 | 6 | 7 | 3 | 9 | 2 | 7 | 3 | 5 |
| **Number of laptop computers** | | | | | | | | | | |
| None | 2,827 | 151 | 243 | 350 | 289 | 535 | 190 | 448 | 184 | 437 |
| 1 to 4 | 1,944 | 96 | 187 | 286 | 165 | 382 | 129 | 243 | 108 | 347 |
| 5 to 9 | 350 | 25 | 28 | 43 | 19 | 79 | 15 | 48 | 25 | 68 |
| 10 to 19 | 181 | 15 | 18 | 19 | 10 | 37 | 18 | 16 | 6 | 42 |
| 20 to 49 | 144 | 8 | 11 | 18 | 10 | 38 | 9 | 15 | 8 | 25 |
| 50 to 99 | 58 | 3 | 7 | 10 | 4 | 10 | 4 | 9 | 5 | 7 |
| 100 to 249 | 35 | 3 | 6 | 6 | Q | 5 | Q | 5 | 2 | 2 |
| 250 or more | 20 | Q | 3 | 3 | Q | 6 | Q | 2 | 1 | 2 |
| **Number of dedicated servers** | | | | | | | | | | |
| None | 3,809 | 201 | 350 | 506 | 373 | 743 | 264 | 547 | 228 | 597 |
| 1 to 4 | 1,562 | 92 | 136 | 206 | 119 | 309 | 92 | 218 | 98 | 294 |
| 5 to 9 | 97 | 5 | 9 | 14 | 5 | 21 | 6 | 10 | 5 | 20 |
| 10 to 19 | 50 | 2 | 5 | 4 | 3 | 13 | Q | 8 | Q | 8 |
| 20 to 49 | 25 | Q | 2 | 3 | Q | 4 | Q | 2 | 1 | 8 |
| 50 or more | 13 | Q | 3 | 2 | Q | 2 | Q | Q | Q | 3 |
| **Number of photocopiers** | | | | | | | | | | |
| None | 3,394 | 164 | 287 | 426 | 337 | 695 | 229 | 515 | 210 | 532 |
| One | 1,325 | 90 | 126 | 198 | 101 | 228 | 93 | 165 | 81 | 244 |
| 2 to 4 | 648 | 38 | 66 | 85 | 55 | 125 | 35 | 86 | 39 | 119 |
| 5 to 9 | 116 | 7 | 11 | 17 | 6 | 28 | 7 | 12 | 5 | 22 |
| 10 or more | 75 | 3 | 14 | 9 | 4 | 16 | 7 | 8 | 3 | 12 |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Number of TVs or video displays** | | | | | | | | | | |
| None | 2,718 | 165 | 229 | 340 | 275 | 523 | 162 | 392 | 192 | 441 |
| One | 1,145 | 59 | 105 | 172 | 101 | 214 | 75 | 182 | 56 | 181 |
| 2 to 4 | 1,035 | 45 | 109 | 143 | 69 | 210 | 80 | 130 | 53 | 197 |
| 5 to 9 | 314 | 17 | 34 | 40 | 31 | 60 | 28 | 38 | 13 | 53 |
| 10 to 19 | 154 | 8 | 12 | 18 | 13 | 33 | 12 | 23 | 13 | 21 |
| 20 to 49 | 106 | Q | 7 | 10 | 8 | 29 | 7 | 10 | 7 | 20 |
| 50 to 99 | 48 | Q | 2 | 7 | Q | 14 | Q | 6 | 4 | Q |
| 100 or more | 37 | 1 | 6 | 5 | 2 | 9 | Q | 4 | Q | 5 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 153 | Q | 10 | 22 | 11 | 39 | 10 | 18 | 9 | 26 |
| Fast food or small restaurant | 173 | 17 | 12 | 16 | 15 | 40 | 12 | 24 | 11 | 26 |
| Cafeteria or large restaurant | 130 | 11 | 18 | 20 | 8 | 32 | 8 | 15 | 6 | 12 |
| Commercial kitchen/ food preparation area | 282 | 18 | 27 | 50 | 22 | 61 | 20 | 28 | 16 | 40 |
| Small kitchen area | 736 | 45 | 69 | 113 | 71 | 126 | 81 | 99 | 38 | 94 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 97 | 6 | 8 | 18 | 7 | 16 | 6 | 9 | 8 | 18 |
| Computer-based training room | 244 | 12 | 22 | 31 | 16 | 56 | 24 | 31 | 20 | 31 |
| Student or public computer center | 238 | 15 | 24 | 28 | 18 | 42 | 17 | 33 | 15 | 46 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 601 | 30 | 77 | 97 | 44 | 90 | 15 | 43 | 43 | 163 |
| Regular HVAC maintenance | 3,178 | 180 | 300 | 437 | 237 | 655 | 212 | 412 | 188 | 556 |
| Building automation system (BAS)[1] | 781 | 42 | 75 | 108 | 52 | 154 | 42 | 95 | 44 | 169 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | |
| Multipaned windows | 3,012 | 203 | 280 | 509 | 333 | 547 | 203 | 322 | 213 | 401 |
| Tinted window glass | 1,875 | 56 | 99 | 237 | 135 | 367 | 131 | 323 | 111 | 416 |
| Reflective window glass | 549 | 23 | 39 | 75 | 38 | 112 | 33 | 61 | 45 | 123 |
| External overhangs or awnings | 1,867 | 76 | 129 | 233 | 160 | 450 | 131 | 240 | 118 | 331 |
| Skylights or atriums | 591 | 44 | 37 | 62 | 32 | 123 | 29 | 58 | 46 | 161 |
| Light scheduling | 918 | 49 | 82 | 149 | 55 | 191 | 56 | 111 | 42 | 183 |
| Occupancy sensors | 813 | 59 | 78 | 116 | 38 | 146 | 31 | 79 | 48 | 218 |
| Multi-level lighting or dimming | 349 | 23 | 30 | 47 | 22 | 80 | 24 | 29 | 21 | 72 |
| Daylight harvesting | 125 | Q | 11 | 19 | 10 | 22 | Q | 23 | 7 | 17 |
| Demand responsive lighting | 176 | Q | 7 | 21 | Q | 45 | Q | Q | Q | Q |
| Building automation system (BAS) for lighting[1] | 208 | 10 | 22 | 23 | 14 | 39 | 14 | 30 | 12 | 44 |

## Table B4. Census region and division, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 5,557 | 302 | 504 | 735 | 502 | 1,091 | 370 | 786 | 338 | 929 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | 206 | 376 | 529 | 313 | 637 | 266 | 495 | 230 | 647 |
| Cooling | 3,517 | 154 | 318 | 481 | 283 | 675 | 268 | 496 | 213 | 629 |
| Lighting | 4,757 | 261 | 446 | 631 | 424 | 917 | 335 | 647 | 277 | 819 |

[1]In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 405 | 652 | 1,066 | 792 | 1,564 | 613 | 1,206 | 528 | 1,216 |
| 5,001 to 10,000 | 8,900 | 541 | 707 | 1,062 | 810 | 1,764 | 606 | 1,164 | 504 | 1,741 |
| 10,001 to 25,000 | 14,105 | 901 | 1,507 | 1,823 | 1,065 | 2,709 | 769 | 1,732 | 990 | 2,609 |
| 25,001 to 50,000 | 11,917 | 642 | 1,002 | 2,040 | 989 | 2,273 | 501 | 1,755 | 467 | 2,249 |
| 50,001 to 100,000 | 13,918 | 598 | 2,078 | 1,809 | 920 | 3,049 | 1,002 | 2,088 | 725 | 1,648 |
| 100,001 to 200,000 | 12,415 | 418 | 2,124 | 1,771 | 628 | 2,817 | 578 | 1,756 | 447 | 1,875 |
| 200,001 to 500,000 | 10,724 | 597 | 1,636 | 2,129 | 597 | 2,089 | 503 | 1,089 | 774 | 1,310 |
| Over 500,000 | 7,074 | Q | 1,526 | 1,042 | 376 | 1,715 | Q | 604 | 546 | 731 |
| **Principal building activity** | | | | | | | | | | |
| Education | 12,239 | 642 | 1,414 | 2,205 | 968 | 2,840 | 469 | 1,853 | 783 | 1,065 |
| Food sales | 1,252 | Q | Q | Q | Q | 188 | Q | Q | Q | 304 |
| Food service | 1,819 | Q | 162 | 217 | 153 | 396 | 150 | 225 | 104 | 282 |
| Health care | 4,155 | 274 | 792 | 549 | 313 | 662 | 271 | 508 | 289 | 497 |
| Inpatient | 2,374 | 169 | 369 | 359 | 137 | 405 | 184 | 304 | 132 | 315 |
| Outpatient | 1,781 | Q | 423 | 190 | 176 | 257 | Q | 204 | 157 | 182 |
| Lodging | 5,826 | Q | 800 | 673 | 384 | 1,217 | 486 | 599 | 519 | 940 |
| Mercantile | 11,330 | 463 | 1,190 | 1,488 | 644 | 2,746 | 736 | 1,247 | 727 | 2,088 |
| Retail (other than mall) | 5,439 | Q | 672 | 748 | 394 | 1,052 | Q | 693 | 307 | 1,030 |
| Enclosed and strip malls | 5,890 | Q | 518 | 740 | 250 | 1,694 | Q | 554 | 420 | 1,058 |
| Office | 15,952 | 738 | 2,965 | 2,430 | 904 | 3,183 | 694 | 1,625 | 852 | 2,562 |
| Public assembly | 5,559 | 350 | 603 | 1,196 | 390 | 904 | 330 | 769 | 321 | 697 |
| Public order and safety | 1,440 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Religious worship | 4,557 | Q | 613 | 547 | 378 | 857 | 614 | 540 | 214 | 511 |
| Service | 4,630 | 255 | 568 | 847 | 625 | 741 | 318 | 583 | Q | 578 |
| Warehouse and storage | 13,077 | 521 | 1,240 | 1,570 | 960 | 2,832 | Q | 1,919 | 591 | 2,938 |
| Other | 2,002 | Q | Q | Q | Q | 568 | Q | Q | Q | 345 |
| Vacant | 3,256 | Q | Q | 345 | 191 | 546 | Q | 934 | Q | 396 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 3,983 | 692 | 940 | 642 | 398 | 425 | 278 | 279 | Q | 225 |
| 1920 to 1945 | 6,025 | 428 | 1,530 | 1,373 | 396 | 690 | 219 | 593 | 144 | 651 |
| 1946 to 1959 | 7,381 | 349 | 1,233 | 1,154 | 508 | 1,515 | 268 | 850 | 325 | 1,179 |
| 1960 to 1969 | 10,362 | 481 | 1,759 | 1,488 | 1,198 | 1,699 | 699 | 1,101 | 406 | 1,532 |
| 1970 to 1979 | 10,846 | 502 | 1,450 | 1,865 | 754 | 1,703 | 555 | 1,435 | 802 | 1,780 |
| 1980 to 1989 | 15,230 | 572 | 1,170 | 1,655 | 962 | 3,584 | 940 | 2,419 | 981 | 2,948 |
| 1990 to 1999 | 13,803 | 485 | 1,560 | 1,942 | 856 | 2,798 | 1,213 | 2,161 | 804 | 1,984 |
| 2000 to 2003 | 7,215 | 343 | 637 | 1,090 | 405 | 1,919 | 208 | 1,187 | 419 | 1,007 |
| 2004 to 2007 | 6,524 | Q | 267 | 860 | 375 | 1,923 | 312 | 605 | 667 | Q |
| 2008 to 2012 | 5,723 | 217 | 685 | 672 | 325 | 1,725 | 212 | 765 | 329 | 793 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Number of floors** | | | | | | | | | | |
| One | 39,809 | 1,083 | 2,782 | 4,975 | 2,677 | 9,191 | 2,639 | 6,702 | 2,575 | 7,186 |
| Two | 20,206 | 1,281 | 2,816 | 3,206 | 1,661 | 3,825 | 1,084 | 2,063 | 1,153 | 3,116 |
| Three | 8,140 | 965 | 1,456 | 1,708 | 899 | 992 | 344 | 692 | 274 | 809 |
| Four to nine | 13,535 | 782 | 2,626 | 2,085 | 829 | 2,913 | 705 | 1,396 | 498 | 1,700 |
| Ten or more | 5,404 | Q | 1,552 | 767 | Q | 1,061 | Q | 541 | Q | 568 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | | |
| Any elevators | 32,120 | 1,857 | 6,054 | 5,439 | 2,115 | 6,484 | 1,236 | 3,302 | 1,700 | 3,932 |
| Number of elevators | | | | | | | | | | |
| One | 11,158 | 944 | 1,636 | 2,252 | 968 | 1,948 | 440 | 1,277 | 486 | 1,207 |
| Two to five | 12,817 | 713 | 2,432 | 1,993 | 788 | 2,839 | 476 | 1,295 | 563 | 1,718 |
| Six or more | 8,145 | 200 | 1,986 | 1,195 | 359 | 1,697 | 320 | 730 | 651 | 1,007 |
| Any escalators | 3,654 | Q | 785 | 731 | Q | 646 | Q | 283 | Q | 461 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 17,751 | 1,017 | 1,675 | 2,663 | 1,623 | 3,033 | 1,266 | 3,037 | 968 | 2,470 |
| 5 to 9 | 8,973 | 496 | 786 | 1,110 | 800 | 1,751 | 491 | 1,312 | 565 | 1,662 |
| 10 to 19 | 9,623 | 439 | 951 | 1,232 | 648 | 1,935 | 573 | 1,307 | 560 | 1,978 |
| 20 to 49 | 14,514 | 546 | 1,358 | 2,270 | 1,102 | 3,001 | 964 | 1,646 | 858 | 2,771 |
| 50 to 99 | 13,476 | 657 | 1,728 | 2,147 | 614 | 3,490 | 764 | 1,821 | 597 | 1,657 |
| 100 to 249 | 10,941 | 686 | 1,843 | 1,548 | 766 | 2,622 | 447 | 1,094 | 689 | 1,246 |
| 250 or more | 11,815 | 460 | 2,892 | 1,771 | 626 | 2,150 | 399 | 1,178 | 745 | 1,595 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 8,220 | 392 | 781 | 1,329 | 697 | 1,161 | 698 | 1,648 | 564 | 950 |
| 40 to 48 | 15,828 | 830 | 1,531 | 1,988 | 1,060 | 2,901 | 1,269 | 2,618 | 896 | 2,734 |
| 49 to 60 | 20,529 | 910 | 2,435 | 2,736 | 1,636 | 5,097 | 876 | 2,522 | 1,161 | 3,158 |
| 61 to 84 | 15,867 | 984 | 2,329 | 2,591 | 1,037 | 3,459 | 476 | 1,339 | 807 | 2,844 |
| 85 to 167 | 9,395 | 530 | 1,351 | 1,606 | 821 | 1,846 | 503 | 789 | 409 | 1,539 |
| Open continuously | 17,253 | 655 | 2,806 | 2,491 | 927 | 3,518 | 1,082 | 2,477 | 1,144 | 2,155 |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 67,550 | 3,314 | 8,599 | 9,494 | 4,683 | 14,128 | 3,498 | 8,815 | 3,633 | 11,386 |
| Owner occupied | 30,637 | 1,499 | 3,954 | 4,649 | 2,690 | 5,746 | 1,975 | 4,397 | 1,539 | 4,187 |
| Leased to tenant(s) | 26,115 | 1,111 | 3,319 | 3,356 | 1,364 | 5,971 | 1,111 | 3,023 | 1,394 | 5,466 |
| Owner occupied and leased | 8,873 | 604 | 1,182 | 1,246 | 521 | 2,071 | 330 | 840 | 532 | 1,546 |
| Unoccupied | 1,925 | Q | Q | Q | Q | 338 | Q | 555 | Q | 187 |
| Government owned | 19,543 | 988 | 2,634 | 3,247 | 1,495 | 3,853 | 1,406 | 2,580 | 1,348 | 1,993 |
| Federal | 1,573 | Q | Q | Q | Q | 666 | Q | Q | Q | Q |
| State | 5,539 | Q | 948 | 780 | Q | 715 | Q | 660 | 502 | 620 |
| Local | 12,431 | 752 | 1,461 | 2,262 | 1,048 | 2,472 | 580 | 1,840 | 766 | 1,249 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 73,702 | 3,625 | 9,679 | 11,275 | 5,539 | 14,565 | 4,191 | 10,015 | 4,277 | 10,534 |
| Business owner or tenant | 11,309 | 528 | 1,291 | 1,205 | 518 | 2,840 | 546 | 1,154 | 625 | 2,600 |
| Property management | 1,250 | Q | Q | Q | Q | 377 | Q | Q | Q | Q |
| Other | 832 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 76,271 | 3,714 | 9,853 | 11,466 | 5,693 | 15,171 | 4,330 | 10,301 | 4,490 | 11,252 |
| Business owner or tenant | 8,256 | 429 | 965 | 917 | 357 | 2,088 | 384 | 854 | 394 | 1,869 |
| Property management | 880 | Q | Q | Q | Q | 215 | Q | Q | Q | Q |
| Other | 1,686 | Q | Q | Q | Q | 507 | Q | Q | Q | Q |
| **Number of establishments** | | | | | | | | | | |
| One | 54,994 | 2,724 | 6,803 | 8,202 | 4,301 | 10,895 | 3,293 | 7,554 | 2,972 | 8,250 |
| 2 to 5 | 17,756 | 916 | 2,389 | 2,890 | 1,317 | 3,711 | 1,014 | 1,777 | 1,096 | 2,646 |
| 6 to 10 | 4,425 | Q | 611 | 583 | Q | 1,007 | Q | 551 | Q | 879 |
| 11 to 20 | 3,704 | Q | 572 | 369 | Q | 1,025 | Q | 397 | 243 | 574 |
| More than 20 | 3,821 | Q | 701 | 435 | Q | 992 | Q | 316 | Q | 778 |
| Currently unoccupied | 2,393 | Q | Q | Q | Q | 350 | Q | 798 | Q | 252 |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 2,236 | 6,793 | 8,593 | 4,029 | 10,431 | 3,027 | 6,746 | 2,796 | 7,624 |
| Primary or secondary school | 4,616 | Q | 372 | 646 | 381 | 794 | Q | 952 | 362 | 732 |
| College or university | 4,068 | 295 | 443 | 336 | 323 | 734 | Q | 757 | Q | 415 |
| Office complex | 3,456 | Q | 634 | 414 | Q | 694 | Q | 400 | Q | 708 |
| Retail complex | 5,159 | Q | 605 | 635 | 341 | 1,404 | Q | 486 | 369 | 812 |
| Storage complex | 3,212 | Q | Q | 341 | Q | 736 | Q | 557 | Q | 690 |
| Religious campus or complex | 1,932 | Q | Q | Q | Q | 423 | Q | 238 | Q | 347 |
| Health care complex | 3,362 | 302 | 828 | 396 | 187 | 634 | 150 | 284 | 212 | 370 |
| Lodging or resort complex | 1,295 | Q | Q | Q | Q | 345 | Q | Q | Q | Q |
| Transportation complex | 554 | N | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 2,107 | Q | 517 | Q | Q | 524 | Q | Q | Q | 263 |
| Other | 5,057 | 273 | 356 | 820 | 265 | 1,188 | Q | 622 | 220 | 1,173 |
| **Predominant exterior wall material** | | | | | | | | | | |
| Brick, stone, or stucco | 40,463 | 1,999 | 5,650 | 6,298 | 2,753 | 8,486 | 2,693 | 5,499 | 2,411 | 4,673 |
| Concrete (block or poured) | 20,726 | 615 | 2,993 | 2,942 | 1,069 | 4,768 | 1,011 | 2,374 | 1,164 | 3,791 |
| Concrete panels | 8,693 | Q | 632 | 1,173 | 521 | 1,799 | Q | 1,008 | Q | 2,446 |
| Siding or shingles | 5,750 | 915 | 674 | 867 | 528 | 658 | 275 | 456 | 211 | 1,166 |
| Metal panels | 8,673 | 347 | 673 | 930 | 1,220 | 1,842 | 538 | 1,865 | 500 | 757 |
| Window glass | 1,340 | Q | 419 | Q | N | Q | Q | Q | Q | 272 |
| Other | 856 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 592 | Q | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Predominant roof material** | | | | | | | | | | |
| Metal surfacing | 15,916 | 548 | 1,077 | 1,630 | 1,634 | 3,905 | 1,369 | 3,020 | 956 | 1,776 |
| Synthetic or rubber | 25,817 | 1,755 | 4,125 | 5,361 | 2,141 | 4,388 | 1,387 | 1,968 | 1,841 | 2,851 |
| Built-up | 21,835 | 684 | 3,098 | 2,894 | 1,104 | 4,714 | 880 | 3,296 | 1,169 | 3,995 |
| Slate or tile shingles | 4,306 | Q | 591 | 288 | Q | 1,065 | Q | Q | 187 | 1,022 |
| Wooden materials (including shingles) | 1,139 | Q | Q | Q | Q | 268 | Q | Q | Q | 428 |
| Asphalt, fiberglass, or other shingles | 15,104 | 864 | 1,805 | 2,191 | 1,077 | 2,964 | 992 | 1,887 | 681 | 2,643 |
| Concrete | 1,642 | Q | 288 | Q | Q | 490 | Q | Q | Q | 332 |
| Other | 678 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 657 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | | | |
| Roof tilt | | | | | | | | | | |
| Flat | 49,623 | 2,157 | 7,905 | 7,483 | 3,091 | 10,067 | 2,046 | 6,007 | 2,767 | 8,099 |
| Shallow pitch | 23,853 | 1,012 | 1,530 | 3,112 | 1,897 | 5,282 | 1,817 | 3,906 | 1,589 | 3,709 |
| Steeper pitch | 13,617 | 1,133 | 1,798 | 2,146 | 1,190 | 2,631 | 1,041 | 1,481 | 625 | 1,572 |
| Cool roof | 19,630 | 742 | 2,639 | 2,545 | 1,121 | 3,879 | 1,345 | 2,306 | 1,510 | 3,544 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 42,216 | 2,625 | 6,639 | 6,653 | 3,443 | 7,251 | 2,752 | 5,390 | 2,245 | 5,217 |
| Addition or annex | 13,022 | 815 | 1,759 | 2,501 | 1,580 | 2,353 | 778 | 1,478 | 855 | 902 |
| Reduction in floorspace | 1,753 | Q | Q | Q | Q | 344 | Q | Q | Q | Q |
| Roof replacement | 20,917 | 1,388 | 4,072 | 3,267 | 2,131 | 2,865 | 1,647 | 2,450 | 1,063 | 2,034 |
| Exterior wall replacement | 4,230 | 264 | 646 | 605 | 468 | 773 | 300 | 369 | Q | 647 |
| Interior wall reconfiguration | 21,340 | 1,431 | 3,589 | 3,577 | 1,625 | 3,346 | 1,228 | 2,280 | 1,418 | 2,848 |
| Window replacement | 12,265 | 1,095 | 2,308 | 2,027 | 1,013 | 2,079 | 584 | 1,109 | 770 | 1,278 |
| HVAC equipment upgrade | 26,779 | 1,570 | 4,908 | 4,574 | 1,967 | 4,584 | 1,437 | 3,342 | 1,561 | 2,837 |
| Lighting upgrade | 25,503 | 1,666 | 4,343 | 4,115 | 1,989 | 4,151 | 1,440 | 3,238 | 1,496 | 3,065 |
| Electrical upgrade | 16,160 | 1,172 | 2,796 | 2,625 | 1,378 | 2,571 | 979 | 1,932 | 986 | 1,721 |
| Plumbing system upgrade | 13,828 | 1,023 | 2,355 | 2,294 | 1,153 | 2,371 | 825 | 1,433 | 782 | 1,593 |
| Insulation upgrade | 7,607 | 581 | 1,168 | 1,268 | 929 | 1,159 | 409 | 790 | Q | 821 |
| Fire, safety, or security upgrade | 17,196 | 1,368 | 3,234 | 2,613 | 1,201 | 2,782 | 900 | 2,193 | 912 | 1,994 |
| Structural upgrade | 3,913 | 300 | 432 | 628 | 258 | 695 | Q | Q | Q | 717 |
| Other | 848 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No renovations | 39,154 | 1,460 | 3,909 | 5,416 | 2,409 | 9,005 | 1,940 | 5,240 | 2,406 | 7,370 |
| Buildings constructed 2008 or later | 5,723 | 217 | 685 | 672 | 325 | 1,725 | 212 | 765 | 329 | 793 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 84,869 | 4,192 | 11,099 | 12,544 | 6,016 | 17,608 | 4,824 | 10,594 | 4,812 | 13,180 |
| Natural gas | 58,725 | 2,241 | 8,827 | 10,790 | 4,236 | 9,984 | 3,436 | 6,480 | 3,766 | 8,966 |
| Fuel oil | 20,200 | 1,866 | 4,213 | 2,619 | 1,316 | 4,419 | 797 | 1,835 | 1,092 | 2,043 |
| District heat | 5,964 | Q | 1,628 | 574 | 332 | 1,159 | Q | 646 | 482 | 404 |
| District chilled water | 4,608 | Q | 656 | 420 | Q | 1,202 | Q | 773 | Q | 329 |
| Propane | 7,706 | 861 | 885 | 829 | 1,080 | 1,476 | 470 | 621 | 503 | 982 |
| Other | 3,826 | 397 | 691 | 532 | 267 | 554 | Q | Q | 403 | 631 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 49,030 | 1,848 | 5,428 | 5,687 | 2,951 | 12,514 | 3,170 | 6,874 | 2,791 | 7,768 |
| Natural gas | 49,511 | 1,990 | 7,362 | 10,122 | 3,909 | 7,309 | 2,662 | 5,467 | 3,180 | 7,509 |
| Fuel oil | 4,351 | 1,270 | 1,581 | 292 | 375 | 458 | Q | Q | Q | Q |
| District heat | 5,925 | Q | 1,628 | 574 | 332 | 1,148 | Q | 637 | 482 | 385 |
| Propane | 3,067 | 314 | 339 | 280 | 723 | 498 | 218 | Q | 141 | 343 |
| Other | 1,010 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 26,205 | 468 | 1,720 | 1,702 | 1,281 | 8,533 | 1,982 | 4,604 | 1,122 | 4,794 |
| Natural gas | 42,988 | 1,811 | 6,555 | 9,587 | 3,497 | 5,694 | 2,067 | 4,551 | 2,893 | 6,333 |
| Fuel oil | 2,542 | 1,099 | 889 | Q | Q | 245 | Q | Q | Q | Q |
| District heat | 5,797 | Q | 1,601 | 532 | 332 | 1,089 | Q | 637 | 482 | 385 |
| Propane | 1,948 | 204 | Q | Q | 517 | 307 | 193 | Q | Q | Q |
| Other | 598 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 76,034 | 3,317 | 9,986 | 11,474 | 5,352 | 16,368 | 4,307 | 9,275 | 4,205 | 11,749 |
| Natural gas | 732 | Q | 216 | Q | Q | Q | Q | Q | Q | Q |
| District chilled water | 4,608 | Q | 656 | 420 | Q | 1,202 | Q | 773 | Q | 329 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 42,755 | 1,939 | 4,622 | 4,914 | 3,020 | 11,163 | 2,900 | 5,386 | 2,000 | 6,810 |
| Natural gas | 39,523 | 1,492 | 6,042 | 7,910 | 2,705 | 5,651 | 2,103 | 4,504 | 2,665 | 6,452 |
| Fuel oil | 1,911 | 693 | 708 | Q | Q | Q | Q | Q | Q | Q |
| District heat | 4,551 | Q | 1,383 | 470 | Q | 944 | Q | Q | Q | 243 |
| Propane | 1,575 | 233 | Q | Q | 251 | 353 | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 25,151 | 1,143 | 3,534 | 4,211 | 1,949 | 5,446 | 1,544 | 2,822 | 1,522 | 2,981 |
| Natural gas | 24,770 | 1,015 | 4,341 | 4,293 | 1,349 | 4,427 | 1,487 | 2,658 | 1,694 | 3,506 |
| Propane | 2,001 | 486 | 293 | Q | 211 | 510 | Q | Q | Q | Q |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 80,078 | 4,090 | 10,963 | 12,240 | 5,815 | 15,883 | 4,692 | 9,923 | 4,704 | 11,767 |
| Buildings with cooling | 79,294 | 3,482 | 10,467 | 11,675 | 5,469 | 17,094 | 4,710 | 9,931 | 4,489 | 11,978 |
| Buildings with water heating | 79,015 | 3,915 | 10,718 | 12,082 | 5,510 | 16,144 | 4,598 | 9,519 | 4,440 | 12,089 |
| Buildings with cooking | 38,546 | 2,053 | 6,124 | 6,175 | 2,551 | 7,925 | 2,255 | 4,201 | 2,420 | 4,842 |
| Buildings with manufacturing | 5,078 | 391 | 669 | 807 | 365 | 821 | Q | 705 | Q | 999 |
| Buildings with electricity generation | 25,642 | 1,456 | 4,767 | 3,912 | 1,445 | 5,901 | 1,075 | 2,401 | 1,635 | 3,049 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 7,015 | 212 | 269 | 502 | 362 | 2,098 | 212 | 1,471 | 277 | 1,612 |
| 1 to 50 | 10,130 | Q | 757 | 734 | 576 | 2,193 | 469 | 1,317 | 592 | 3,117 |
| 51 to 99 | 14,650 | 805 | 2,068 | 1,545 | 694 | 3,098 | 1,236 | 1,883 | 658 | 2,662 |
| 100 | 55,298 | 2,910 | 8,138 | 9,961 | 4,545 | 10,592 | 2,987 | 6,724 | 3,453 | 5,988 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 7,799 | 819 | 765 | 1,067 | 709 | 887 | 194 | 1,464 | 492 | 1,402 |
| 1 to 50 | 18,891 | 1,019 | 2,539 | 3,289 | 1,451 | 3,237 | 969 | 1,982 | 828 | 3,576 |
| 51 to 99 | 22,728 | 1,323 | 3,758 | 3,408 | 1,289 | 4,695 | 1,642 | 2,126 | 1,054 | 3,434 |
| 100 | 37,676 | 1,141 | 4,170 | 4,977 | 2,728 | 9,162 | 2,098 | 5,823 | 2,608 | 4,968 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 322 | N | Q | Q | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 12,628 | 677 | 1,420 | 1,840 | 1,030 | 2,375 | 817 | 1,562 | 541 | 2,366 |
| 51 to 99 | 34,814 | 2,099 | 4,189 | 5,616 | 2,315 | 7,284 | 1,665 | 4,339 | 1,847 | 5,460 |
| 100 | 35,726 | 1,286 | 5,384 | 4,794 | 2,472 | 7,734 | 2,233 | 4,438 | 2,279 | 5,107 |
| Building never open/electricity not used | 3,603 | Q | Q | 444 | 329 | 527 | Q | 1,003 | 270 | 413 |
| **Percent lit during off hours** | | | | | | | | | | |
| Zero | 24,746 | 1,396 | 2,481 | 3,411 | 2,183 | 4,457 | 1,460 | 3,202 | 1,502 | 4,654 |
| 1 to 50 | 50,753 | 2,499 | 6,801 | 7,930 | 3,534 | 11,570 | 2,771 | 5,841 | 2,591 | 7,217 |
| 51 to 100 | 6,926 | 287 | 1,514 | 719 | 234 | 1,118 | 381 | 1,069 | 572 | 1,033 |
| Building always open with no "off hours" | 2,443 | Q | 303 | 484 | Q | 462 | Q | 483 | Q | 276 |
| Electricity not used | 2,225 | Q | Q | Q | 162 | 373 | Q | 800 | Q | 199 |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 11,846 | 400 | 998 | 632 | 436 | 4,909 | 844 | 1,174 | 498 | 1,955 |
| Furnaces | 8,654 | 323 | 922 | 1,756 | 755 | 1,234 | 530 | 1,599 | 554 | 983 |
| Individual space heaters | 20,766 | 1,529 | 3,389 | 3,668 | 2,066 | 3,328 | 1,295 | 1,896 | 1,197 | 2,397 |
| District heat | 5,925 | Q | 1,628 | 574 | 332 | 1,148 | Q | 637 | 482 | 385 |
| Boilers | 22,443 | 1,823 | 4,624 | 5,083 | 1,583 | 3,247 | 1,077 | 1,460 | 1,150 | 2,395 |
| Packaged heating units | 49,188 | 1,769 | 5,417 | 7,347 | 3,547 | 10,168 | 3,136 | 6,745 | 2,967 | 8,092 |
| Other | 1,574 | Q | Q | Q | Q | Q | Q | Q | Q | 242 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 451 | 1,244 | 2,854 | 1,493 | 2,574 | 891 | 2,429 | 668 | 2,160 |
| Heat pumps | 12,538 | 388 | 1,103 | 604 | 421 | 4,925 | 839 | 1,344 | 672 | 2,244 |
| Individual air conditioners | 12,420 | 1,035 | 2,810 | 1,806 | 779 | 2,484 | 808 | 971 | 565 | 1,162 |
| District chilled water | 4,608 | Q | 656 | 420 | Q | 1,202 | Q | 773 | Q | 329 |
| Central chillers | 17,041 | 783 | 2,706 | 3,484 | 991 | 3,884 | 831 | 1,746 | 920 | 1,697 |
| Packaged air conditioning units | 45,153 | 2,062 | 6,635 | 6,839 | 2,977 | 9,119 | 2,686 | 5,379 | 2,314 | 7,141 |
| Swamp coolers | 1,918 | Q | Q | Q | N | Q | N | Q | 722 | 617 |
| Other | 328 | Q | Q | Q | Q | Q | N | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 27,558 | 1,646 | 3,709 | 4,404 | 2,482 | 5,204 | 1,616 | 3,228 | 1,365 | 3,903 |
| Cooling | 30,702 | 1,516 | 4,798 | 4,620 | 2,591 | 6,455 | 1,755 | 3,458 | 1,440 | 4,070 |
| **Water-heating equipment** | | | | | | | | | | |
| Centralized system | 47,534 | 2,487 | 6,641 | 7,606 | 3,710 | 8,889 | 2,745 | 5,826 | 2,573 | 7,058 |
| Distributed system | 12,688 | 586 | 1,797 | 1,671 | 663 | 3,030 | 437 | 1,471 | 699 | 2,333 |
| Combination of centralized and distributed system | 18,793 | 843 | 2,279 | 2,804 | 1,137 | 4,226 | 1,416 | 2,222 | 1,168 | 2,698 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | |
| Incandescent | 38,406 | 2,046 | 5,520 | 6,180 | 2,858 | 7,828 | 2,468 | 4,286 | 2,253 | 4,969 |
| Standard fluorescent | 80,081 | 3,771 | 10,702 | 11,880 | 5,634 | 16,888 | 4,573 | 9,901 | 4,529 | 12,203 |
| Compact fluorescent | 53,816 | 2,886 | 7,886 | 8,336 | 3,505 | 10,855 | 2,923 | 6,263 | 3,007 | 8,156 |
| High-intensity discharge (HID) | 23,396 | 1,161 | 3,349 | 4,102 | 1,255 | 5,325 | 1,182 | 2,841 | 1,314 | 2,868 |
| Halogen | 28,059 | 1,494 | 3,774 | 4,590 | 1,578 | 6,161 | 1,349 | 3,459 | 1,663 | 3,990 |
| LED | 22,071 | 1,363 | 3,388 | 3,759 | 1,389 | 4,553 | 1,232 | 1,774 | 1,513 | 3,099 |
| Other | 446 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | | |
| Any refrigeration | 73,645 | 3,568 | 10,044 | 11,374 | 5,196 | 15,268 | 4,498 | 8,989 | 4,179 | 10,530 |
| Walk-in units | 28,361 | 1,424 | 4,445 | 4,481 | 1,850 | 6,399 | 1,199 | 3,179 | 1,898 | 3,486 |
| Cases or cabinets | 28,719 | 1,524 | 4,542 | 4,820 | 1,983 | 5,711 | 1,596 | 3,079 | 1,740 | 3,725 |
| Large cold storage areas | 4,171 | Q | 430 | 695 | Q | 1,049 | Q | 316 | Q | 676 |
| Commercial ice makers | 32,734 | 1,240 | 4,333 | 4,666 | 1,932 | 7,957 | 2,457 | 4,102 | 2,093 | 3,955 |
| Residential-type or compact units | 62,381 | 3,081 | 8,354 | 9,850 | 4,407 | 13,129 | 3,747 | 7,312 | 3,323 | 9,176 |
| Vending machines | 43,936 | 1,902 | 6,546 | 6,685 | 2,988 | 9,706 | 2,702 | 5,219 | 2,529 | 5,659 |
| No refrigeration | 13,448 | 734 | 1,189 | 1,368 | 982 | 2,713 | 406 | 2,405 | 802 | 2,849 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Office equipment (more than one may apply)** | | | | | | | | | | |
| Desktop computers | 77,063 | 3,686 | 10,430 | 11,561 | 5,301 | 16,255 | 4,236 | 9,194 | 4,338 | 12,062 |
| With flat screen monitors | 76,160 | 3,645 | 10,310 | 11,436 | 5,192 | 16,079 | 4,156 | 9,111 | 4,261 | 11,968 |
| With multiple monitors | 30,946 | 1,158 | 4,132 | 4,244 | 2,164 | 6,888 | 1,498 | 3,708 | 1,992 | 5,163 |
| Laptop computers | 63,486 | 3,093 | 8,681 | 9,507 | 4,389 | 13,950 | 3,421 | 7,550 | 3,614 | 9,282 |
| Dedicated servers | 53,369 | 2,511 | 7,575 | 7,894 | 3,378 | 11,468 | 2,897 | 6,199 | 3,189 | 8,258 |
| Laser printers | 54,256 | 2,696 | 7,622 | 8,535 | 3,624 | 11,789 | 2,681 | 5,990 | 2,952 | 8,367 |
| Inkjet printers | 36,235 | 1,899 | 4,660 | 5,161 | 2,521 | 7,724 | 1,954 | 4,619 | 2,056 | 5,641 |
| FAX machines | 66,682 | 3,164 | 9,569 | 9,955 | 4,484 | 14,307 | 3,404 | 8,084 | 3,708 | 10,007 |
| Photocopiers | 59,277 | 2,989 | 8,665 | 9,111 | 3,942 | 12,279 | 3,057 | 6,763 | 3,360 | 9,111 |
| **Number of desktop computers** | | | | | | | | | | |
| None | 10,030 | 616 | 802 | 1,181 | 877 | 1,726 | 668 | 2,200 | 643 | 1,317 |
| 1 to 4 | 15,669 | 846 | 1,611 | 2,283 | 1,299 | 3,318 | 911 | 2,044 | 782 | 2,575 |
| 5 to 9 | 9,422 | Q | 1,142 | 1,390 | 730 | 1,723 | 649 | 1,156 | 515 | 1,866 |
| 10 to 19 | 9,388 | 494 | 1,150 | 1,304 | 522 | 1,903 | 649 | 979 | 429 | 1,958 |
| 20 to 49 | 13,094 | 717 | 1,610 | 1,633 | 958 | 2,966 | 758 | 1,623 | 873 | 1,957 |
| 50 to 99 | 8,284 | 430 | 936 | 1,532 | 452 | 1,713 | 456 | 1,074 | 434 | 1,259 |
| 100 to 249 | 9,728 | 432 | 1,870 | 1,569 | 634 | 2,156 | 410 | 826 | 653 | 1,179 |
| 250 or more | 11,478 | 518 | 2,110 | 1,850 | 706 | 2,476 | 403 | 1,493 | 653 | 1,268 |
| **Number of laptop computers** | | | | | | | | | | |
| None | 23,607 | 1,208 | 2,552 | 3,235 | 1,789 | 4,031 | 1,483 | 3,845 | 1,367 | 4,097 |
| 1 to 4 | 21,161 | 1,083 | 2,267 | 3,260 | 1,785 | 4,218 | 1,281 | 2,580 | 1,163 | 3,524 |
| 5 to 9 | 8,345 | 323 | 1,082 | 1,063 | 415 | 2,003 | 452 | 1,113 | 509 | 1,384 |
| 10 to 19 | 8,343 | 521 | 979 | 1,060 | 414 | 1,994 | 489 | 904 | 405 | 1,579 |
| 20 to 49 | 9,643 | 348 | 1,123 | 1,384 | 811 | 2,362 | 505 | 927 | 740 | 1,444 |
| 50 to 99 | 5,234 | 242 | 976 | 978 | 334 | 809 | 244 | 774 | 309 | 568 |
| 100 to 249 | 5,217 | 346 | 1,068 | 711 | Q | 1,078 | Q | 766 | 285 | 388 |
| 250 or more | 5,542 | Q | 1,185 | 1,051 | 319 | 1,487 | Q | 486 | 202 | 395 |
| **Number of dedicated servers** | | | | | | | | | | |
| None | 33,724 | 1,790 | 3,657 | 4,848 | 2,800 | 6,513 | 2,007 | 5,195 | 1,792 | 5,122 |
| 1 to 4 | 34,097 | 1,582 | 4,611 | 5,055 | 2,145 | 7,735 | 1,785 | 3,980 | 2,061 | 5,143 |
| 5 to 9 | 6,241 | 338 | 755 | 931 | 504 | 1,063 | 414 | 749 | 357 | 1,131 |
| 10 to 19 | 5,711 | 340 | 777 | 663 | 343 | 1,286 | Q | 622 | Q | 899 |
| 20 to 49 | 3,758 | Q | 566 | 714 | Q | 696 | Q | 455 | 282 | 497 |
| 50 or more | 3,562 | Q | 867 | 530 | Q | 688 | Q | Q | Q | 589 |
| **Number of photocopiers** | | | | | | | | | | |
| None | 27,816 | 1,312 | 2,568 | 3,630 | 2,236 | 5,702 | 1,847 | 4,631 | 1,621 | 4,269 |
| One | 17,080 | 912 | 1,692 | 2,726 | 1,216 | 3,397 | 816 | 1,915 | 1,003 | 3,402 |
| 2 to 4 | 20,312 | 1,017 | 2,564 | 3,003 | 1,581 | 4,073 | 1,247 | 2,743 | 1,137 | 2,948 |
| 5 to 9 | 8,863 | 599 | 1,347 | 1,644 | 523 | 1,943 | 456 | 804 | 399 | 1,148 |
| 10 or more | 13,022 | 461 | 3,062 | 1,739 | 621 | 2,865 | 538 | 1,300 | 821 | 1,613 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Number of TVs or video displays** | | | | | | | | | | |
| None | 24,339 | 1,513 | 2,541 | 3,230 | 1,861 | 4,717 | 1,132 | 3,635 | 1,447 | 4,264 |
| One | 9,990 | 435 | 981 | 1,485 | 806 | 2,162 | 740 | 1,374 | 524 | 1,482 |
| 2 to 4 | 16,465 | 833 | 2,097 | 2,889 | 1,167 | 3,192 | 964 | 2,158 | 688 | 2,477 |
| 5 to 9 | 8,148 | 441 | 1,383 | 839 | 611 | 1,524 | 637 | 1,001 | 292 | 1,419 |
| 10 to 19 | 8,168 | 391 | 1,408 | 1,134 | 760 | 1,558 | 435 | 1,058 | 488 | 936 |
| 20 to 49 | 8,058 | 375 | 1,069 | 1,198 | 470 | 1,973 | 401 | 814 | 620 | 1,139 |
| 50 to 99 | 4,378 | Q | 270 | 783 | Q | 1,213 | Q | Q | 409 | 622 |
| 100 or more | 7,547 | 202 | 1,483 | 1,184 | 357 | 1,643 | Q | 672 | Q | 1,039 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 9,884 | Q | 1,710 | 1,632 | 630 | 2,550 | 329 | 884 | 723 | 1,211 |
| Fast food or small restaurant | 9,787 | 335 | 1,416 | 1,299 | 476 | 2,135 | 609 | 1,053 | 871 | 1,593 |
| Cafeteria or large restaurant | 15,222 | 829 | 2,756 | 2,452 | 1,003 | 3,709 | 613 | 1,625 | 916 | 1,320 |
| Commercial kitchen/ food preparation area | 16,150 | 915 | 2,339 | 2,960 | 993 | 3,867 | 722 | 1,503 | 992 | 1,859 |
| Small kitchen area | 14,054 | 776 | 2,329 | 2,282 | 1,130 | 2,551 | 1,072 | 1,498 | 840 | 1,574 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 11,105 | 491 | 1,887 | 1,743 | 745 | 2,296 | 456 | 1,120 | 662 | 1,704 |
| Computer-based training room | 17,723 | 747 | 2,594 | 2,728 | 1,222 | 3,895 | 879 | 2,347 | 1,364 | 1,947 |
| Student or public computer center | 14,341 | 834 | 1,877 | 2,236 | 1,102 | 3,187 | 761 | 2,051 | 1,010 | 1,283 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 30,749 | 1,412 | 5,498 | 5,550 | 2,366 | 5,286 | 1,059 | 2,706 | 2,022 | 4,849 |
| Regular HVAC maintenance | 69,244 | 3,324 | 9,658 | 10,660 | 4,513 | 14,891 | 3,362 | 8,319 | 3,991 | 10,526 |
| Building automation system (BAS)[1] | 37,051 | 1,734 | 5,199 | 5,646 | 2,350 | 8,070 | 1,880 | 4,628 | 2,310 | 5,233 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | |
| Multipaned windows | 60,362 | 3,410 | 8,047 | 10,082 | 5,200 | 12,612 | 3,378 | 6,592 | 3,822 | 7,219 |
| Tinted window glass | 45,025 | 1,420 | 4,893 | 6,325 | 2,744 | 9,706 | 2,497 | 6,785 | 2,717 | 7,937 |
| Reflective window glass | 15,908 | 495 | 1,849 | 2,633 | 1,180 | 2,980 | 711 | 1,765 | 1,264 | 3,032 |
| External overhangs or awnings | 32,188 | 1,106 | 3,183 | 4,169 | 2,326 | 7,774 | 2,074 | 4,009 | 2,237 | 5,310 |
| Skylights or atriums | 22,261 | 1,376 | 2,682 | 2,815 | 1,276 | 4,768 | 922 | 2,394 | 1,510 | 4,519 |
| Light scheduling | 30,263 | 1,454 | 4,384 | 5,033 | 1,617 | 6,195 | 1,217 | 3,324 | 1,650 | 5,388 |
| Occupancy sensors | 35,871 | 2,302 | 5,430 | 5,927 | 1,990 | 7,130 | 1,429 | 3,364 | 2,027 | 6,273 |
| Multi-level lighting or dimming | 14,534 | 663 | 1,672 | 2,275 | 902 | 3,452 | 886 | 1,086 | 1,200 | 2,398 |
| Daylight harvesting | 6,114 | 303 | 729 | 1,147 | 375 | 999 | Q | 666 | 461 | 1,103 |
| Demand responsive lighting | 4,738 | Q | 448 | 506 | 406 | 1,315 | Q | Q | Q | 1,332 |
| Building automation system (BAS) for lighting[1] | 12,068 | 526 | 1,633 | 1,680 | 768 | 2,714 | 495 | 1,298 | 807 | 2,146 |

## Table B5. Census region and division, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Northeast | | Midwest | | South | | | West | |
| | All buildings | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Moun-tain | Pacific |
| **All buildings** | 87,093 | 4,302 | 11,232 | 12,742 | 6,178 | 17,981 | 4,904 | 11,394 | 4,981 | 13,379 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 63,167 | 3,315 | 8,975 | 9,790 | 4,336 | 12,357 | 3,581 | 7,371 | 3,738 | 9,704 |
| Cooling | 62,516 | 2,931 | 8,520 | 9,321 | 4,121 | 13,458 | 3,675 | 7,315 | 3,479 | 9,697 |
| Lighting | 78,594 | 3,987 | 10,272 | 11,570 | 5,693 | 16,417 | 4,478 | 9,645 | 4,497 | 12,034 |

[1]In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Principal building activity** | | | | | | | | | |
| Education | 389 | 143 | 51 | 75 | 41 | 48 | 22 | 9 | Q |
| Food sales | 177 | 126 | Q | Q | Q | Q | Q | N | N |
| Food service | 380 | 267 | 89 | 24 | Q | Q | N | N | N |
| Health care | 157 | 81 | 33 | 21 | 8 | 8 | 2 | 3 | 1 |
| Inpatient | 10 | N | N | Q | Q | 3 | 1 | 2 | 1 |
| Outpatient | 147 | 81 | 33 | 21 | 7 | 5 | Q | 1 | Q |
| Lodging | 158 | 34 | 28 | 44 | 21 | 20 | 8 | 3 | 1 |
| Mercantile | 602 | 250 | 143 | 116 | 45 | 26 | 16 | 5 | 1 |
| Retail (other than mall) | 438 | 227 | 97 | 75 | 22 | Q | 9 | Q | Q |
| Enclosed and strip malls | 164 | Q | 46 | 42 | 22 | 20 | 7 | 3 | 1 |
| Office | 1,012 | 532 | 230 | 129 | 66 | 32 | 15 | 6 | 3 |
| Public assembly | 352 | 162 | 77 | 73 | 24 | 9 | 4 | 2 | 1 |
| Public order and safety | 84 | Q | 28 | Q | Q | Q | Q | Q | Q |
| Religious worship | 412 | 174 | 111 | 90 | 28 | 7 | Q | Q | N |
| Service | 619 | 372 | 143 | 78 | 19 | Q | Q | Q | Q |
| Warehouse and storage | 796 | 380 | 180 | 142 | 49 | 24 | 13 | 7 | 1 |
| Other | 125 | 59 | Q | Q | Q | Q | Q | Q | Q |
| Vacant | 296 | 165 | 59 | 47 | 14 | 9 | Q | Q | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 362 | 210 | 77 | 50 | 13 | 7 | 3 | Q | Q |
| 1920 to 1945 | 488 | 291 | 83 | 71 | 26 | 9 | 6 | 2 | 1 |
| 1946 to 1959 | 599 | 352 | 112 | 81 | 24 | 18 | 7 | 4 | (*) |
| 1960 to 1969 | 639 | 290 | 158 | 109 | 40 | 26 | 10 | 5 | 1 |
| 1970 to 1979 | 684 | 336 | 148 | 118 | 45 | 22 | 10 | 4 | 1 |
| 1980 to 1989 | 915 | 415 | 231 | 152 | 66 | 26 | 14 | 9 | 2 |
| 1990 to 1999 | 845 | 425 | 197 | 119 | 44 | 39 | 14 | 6 | 1 |
| 2000 to 2003 | 375 | 178 | 72 | 70 | 24 | 15 | 13 | 2 | 1 |
| 2004 to 2007 | 347 | 162 | 73 | 54 | 28 | 22 | 5 | 3 | 1 |
| 2008 to 2012 | 303 | 119 | 78 | 57 | 22 | 16 | 9 | 2 | Q |
| **Census region** | | | | | | | | | |
| Northeast | 805 | 372 | 171 | 152 | 47 | 36 | 18 | 8 | 2 |
| Midwest | 1,237 | 645 | 257 | 183 | 83 | 40 | 18 | 10 | 2 |
| South | 2,247 | 1,159 | 491 | 327 | 127 | 88 | 37 | 13 | 3 |
| West | 1,267 | 601 | 310 | 221 | 75 | 34 | 17 | 7 | 1 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,002 | 442 | 344 | 122 | 71 | 31 | 16 | 3 |
| Mixed-humid | 1,743 | 930 | 365 | 246 | 89 | 69 | 30 | 12 | 3 |
| Mixed-dry/Hot-dry | 837 | 370 | 225 | 150 | 54 | 22 | 12 | 5 | 1 |
| Hot-humid | 799 | 400 | 169 | 119 | 58 | 32 | 15 | 4 | 1 |
| Marine | 147 | Q | 29 | 24 | 10 | 6 | 2 | 1 | Q |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Number of floors** | | | | | | | | | |
| One | 3,836 | 2,195 | 836 | 519 | 161 | 81 | 32 | 10 | 1 |
| Two | 1,158 | 423 | 301 | 254 | 100 | 54 | 18 | 7 | 1 |
| Three | 374 | 137 | 74 | 78 | 46 | 24 | 12 | 3 | Q |
| Four to nine | 177 | Q | Q | 32 | 24 | 39 | 26 | 12 | 2 |
| Ten or more | 13 | N | N | N | Q | Q | 3 | 6 | 3 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | |
| Any elevators | 405 | Q | 42 | 94 | 86 | 85 | 53 | 26 | 6 |
| Number of elevators | | | | | | | | | |
| One | 272 | Q | 39 | 91 | 64 | 41 | 17 | 5 | Q |
| Two to five | 118 | N | Q | Q | 21 | 43 | 33 | 13 | 1 |
| Six or more | 16 | N | N | N | Q | Q | 2 | 8 | 5 |
| Any escalators | 10 | N | N | Q | N | Q | Q | 1 | 3 |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 2,892 | 1,984 | 550 | 279 | 52 | 21 | 5 | Q | Q |
| 5 to 9 | 1,085 | 547 | 331 | 159 | 39 | 7 | Q | Q | Q |
| 10 to 19 | 731 | 217 | 239 | 195 | 58 | 17 | 4 | Q | Q |
| 20 to 49 | 513 | 30 | 108 | 202 | 100 | 56 | 14 | 2 | Q |
| 50 to 99 | 206 | N | Q | 41 | 64 | 62 | 32 | 6 | Q |
| 100 to 249 | 93 | N | N | Q | 18 | 33 | 19 | 15 | 1 |
| 250 or more | 37 | N | N | Q | Q | 4 | 13 | 12 | 6 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 1,149 | 746 | 216 | 139 | 34 | 10 | 3 | Q | Q |
| 40 to 48 | 1,346 | 750 | 298 | 180 | 58 | 40 | 16 | 4 | Q |
| 49 to 60 | 1,244 | 496 | 338 | 239 | 91 | 53 | 18 | 8 | 1 |
| 61 to 84 | 764 | 309 | 161 | 161 | 73 | 35 | 17 | 8 | 2 |
| 85 to 167 | 479 | 251 | 80 | 69 | 32 | 24 | 15 | 5 | 1 |
| Open continuously | 575 | 226 | 137 | 95 | 45 | 37 | 20 | 12 | 4 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 4,781 | 2,435 | 1,101 | 753 | 265 | 130 | 65 | 27 | 6 |
| Owner occupied | 2,466 | 1,311 | 570 | 377 | 114 | 52 | 31 | 11 | 2 |
| Leased to tenant(s) | 1,745 | 881 | 402 | 260 | 103 | 59 | 26 | 11 | 3 |
| Owner occupied and leased | 349 | 108 | 88 | 85 | 38 | 16 | 7 | 5 | 2 |
| Unoccupied | 221 | 135 | 41 | 30 | Q | Q | Q | Q | Q |
| Government owned | 776 | 342 | 129 | 131 | 67 | 69 | 25 | 11 | 2 |
| Federal | 33 | Q | Q | Q | Q | Q | Q | Q | 1 |
| State | 185 | 81 | Q | 37 | 17 | 20 | 10 | 4 | Q |
| Local | 558 | 252 | 104 | 88 | 45 | 47 | 15 | 7 | 1 |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | |
| Building owner | 4,715 | 2,377 | 1,042 | 734 | 281 | 166 | 77 | 32 | 7 |
| Business owner or tenant | 724 | 339 | 165 | 133 | 42 | 28 | 11 | 5 | 1 |
| Property management | 54 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 64 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | |
| Building owner | 4,876 | 2,458 | 1,062 | 768 | 296 | 173 | 80 | 33 | 7 |
| Business owner or tenant | 540 | 256 | 133 | 91 | 28 | 20 | 8 | 4 | 1 |
| Property management | 35 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 106 | 44 | 30 | Q | Q | Q | Q | Q | Q |
| **Number of establishments** | | | | | | | | | |
| One | 4,205 | 2,285 | 907 | 600 | 208 | 125 | 55 | 21 | 3 |
| 2 to 5 | 862 | 315 | 235 | 179 | 65 | 35 | 21 | 10 | 2 |
| 6 to 10 | 147 | Q | 34 | 54 | 20 | 16 | 4 | 1 | 1 |
| 11 to 20 | 68 | Q | Q | 16 | 23 | 10 | 5 | 2 | (*) |
| More than 20 | 27 | Q | N | Q | Q | 6 | 3 | 3 | 2 |
| Currently unoccupied | 248 | 145 | 50 | 34 | Q | Q | Q | Q | Q |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 1,889 | 842 | 551 | 207 | 118 | 52 | 20 | 4 |
| Primary or secondary school | 237 | 114 | 37 | 46 | 20 | 11 | 7 | 3 | Q |
| College or university | 84 | Q | Q | 24 | 14 | 15 | 8 | 3 | Q |
| Office complex | 154 | 66 | 35 | 27 | 14 | 7 | 3 | 2 | 1 |
| Retail complex | 258 | 108 | 58 | 47 | 22 | 13 | 8 | 3 | Q |
| Storage complex | 314 | 182 | 72 | 40 | Q | Q | 2 | Q | Q |
| Religious campus or complex | 197 | 97 | 45 | 42 | Q | Q | Q | Q | N |
| Health care complex | 52 | Q | Q | Q | Q | 7 | 4 | 3 | 1 |
| Lodging or resort complex | 65 | 31 | Q | Q | Q | Q | Q | Q | Q |
| Transportation complex | 35 | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 104 | 52 | Q | Q | Q | Q | Q | Q | Q |
| Other | 371 | 191 | 82 | 59 | 20 | 14 | 4 | 2 | Q |
| **Predominant exterior wall material** | | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 1,079 | 487 | 406 | 166 | 111 | 44 | 17 | 3 |
| Concrete (block or poured) | 1,121 | 519 | 246 | 193 | 73 | 51 | 28 | 10 | 1 |
| Concrete panels | 210 | 44 | 50 | 49 | 31 | 18 | 11 | 5 | 2 |
| Siding or shingles | 905 | 612 | 179 | 89 | 20 | Q | Q | Q | Q |
| Metal panels | 933 | 493 | 256 | 132 | 33 | 14 | 3 | 2 | Q |
| Window glass | 17 | Q | Q | Q | Q | Q | Q | 1 | 1 |
| Other | 37 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 21 | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Predominant roof material** | | | | | | | | | |
| Metal surfacing | 1,672 | 918 | 419 | 235 | 55 | 31 | 10 | 2 | Q |
| Synthetic or rubber | 911 | 327 | 185 | 178 | 101 | 67 | 32 | 18 | 3 |
| Built-up | 836 | 330 | 159 | 163 | 84 | 57 | 28 | 12 | 3 |
| Slate or tile shingles | 406 | 227 | 99 | 50 | 19 | 7 | Q | Q | Q |
| Wooden materials (including shingles) | 157 | 99 | 37 | 16 | Q | Q | Q | Q | N |
| Asphalt, fiberglass, or other shingles | 1,483 | 852 | 312 | 213 | 64 | 29 | 10 | 2 | 1 |
| Concrete | 51 | Q | Q | Q | Q | Q | 3 | Q | Q |
| Other | 24 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 18 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | | |
| Roof tilt | | | | | | | | | |
| Flat | 1,960 | 766 | 390 | 382 | 194 | 131 | 63 | 29 | 6 |
| Shallow pitch | 2,148 | 1,212 | 491 | 285 | 88 | 43 | 21 | 7 | 2 |
| Steeper pitch | 1,449 | 799 | 348 | 217 | 50 | 26 | 6 | 1 | 1 |
| Cool roof | 740 | 314 | 141 | 143 | 57 | 43 | 24 | 16 | 3 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | |
| Any type of renovation | 2,094 | 945 | 471 | 353 | 152 | 100 | 44 | 24 | 5 |
| Addition or annex | 444 | 158 | 102 | 80 | 44 | 34 | 14 | 10 | 2 |
| Reduction in floorspace | 71 | 32 | Q | Q | Q | Q | Q | 1 | (*) |
| Roof replacement | 987 | 446 | 225 | 171 | 61 | 47 | 19 | 14 | 3 |
| Exterior wall replacement | 194 | 104 | 32 | 31 | 12 | 8 | 4 | 2 | 1 |
| Interior wall reconfiguration | 889 | 390 | 185 | 150 | 73 | 51 | 21 | 14 | 3 |
| Window replacement | 560 | 246 | 119 | 99 | 45 | 31 | 11 | 7 | 2 |
| HVAC equipment upgrade | 1,101 | 443 | 246 | 205 | 93 | 62 | 30 | 17 | 4 |
| Lighting upgrade | 982 | 405 | 221 | 166 | 80 | 62 | 27 | 18 | 4 |
| Electrical upgrade | 747 | 358 | 154 | 120 | 49 | 37 | 15 | 11 | 3 |
| Plumbing system upgrade | 644 | 308 | 139 | 95 | 48 | 34 | 8 | 10 | 2 |
| Insulation upgrade | 382 | 180 | 78 | 68 | 27 | 19 | 6 | 4 | 1 |
| Fire, safety, or security upgrade | 616 | 250 | 133 | 106 | 53 | 42 | 16 | 12 | 3 |
| Structural upgrade | 152 | 59 | 36 | 30 | Q | 10 | 3 | 2 | 1 |
| Other | 39 | Q | Q | Q | Q | Q | Q | Q | Q |
| No renovations | 3,160 | 1,713 | 680 | 473 | 159 | 84 | 37 | 12 | 2 |
| Buildings constructed 2008 or later | 303 | 119 | 78 | 57 | 22 | 16 | 9 | 2 | Q |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 5,234 | 2,556 | 1,171 | 852 | 326 | 195 | 90 | 37 | 8 |
| Natural gas | 2,933 | 1,253 | 660 | 548 | 227 | 142 | 67 | 29 | 6 |
| Fuel oil | 467 | 204 | 74 | 67 | 39 | 39 | 19 | 18 | 6 |
| District heat | 48 | Q | Q | Q | 6 | 10 | 9 | 5 | 2 |
| District chilled water | 54 | Q | Q | 9 | Q | 10 | 9 | 4 | 1 |
| Propane | 510 | 252 | 134 | 74 | 24 | 14 | 8 | 3 | 1 |
| Other | 172 | 69 | 41 | 31 | 16 | 8 | 4 | 3 | 1 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 2,858 | 1,379 | 606 | 482 | 189 | 123 | 54 | 21 | 4 |
| Natural gas | 2,612 | 1,115 | 595 | 494 | 203 | 121 | 54 | 25 | 4 |
| Fuel oil | 270 | 148 | 49 | 42 | 15 | 9 | 4 | 2 | (*) |
| District heat | 48 | Q | Q | Q | 6 | 10 | 9 | 5 | 2 |
| Propane | 342 | 180 | 96 | 51 | 9 | Q | Q | Q | Q |
| Other | 101 | 48 | 29 | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | |
| Electricity | 1,819 | 928 | 398 | 280 | 106 | 70 | 27 | 8 | 2 |
| Natural gas | 2,322 | 1,025 | 520 | 433 | 174 | 97 | 48 | 23 | 4 |
| Fuel oil | 205 | 119 | 37 | 32 | Q | 6 | 2 | Q | Q |
| District heat | 47 | Q | Q | Q | 6 | 10 | 9 | 5 | 2 |
| Propane | 261 | 146 | 70 | 35 | Q | Q | Q | Q | N |
| Other | 67 | 35 | Q | Q | Q | Q | Q | Q | N |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 4,413 | 2,054 | 996 | 764 | 296 | 179 | 81 | 35 | 7 |
| Natural gas | 12 | Q | Q | Q | Q | Q | Q | Q | (*) |
| District chilled water | 54 | Q | Q | 9 | Q | 10 | 9 | 4 | 1 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 2,658 | 1,304 | 594 | 431 | 167 | 94 | 46 | 18 | 4 |
| Natural gas | 1,758 | 684 | 384 | 351 | 157 | 109 | 49 | 21 | 4 |
| Fuel oil | 77 | Q | Q | Q | Q | Q | 2 | 1 | (*) |
| District heat | 25 | Q | Q | Q | Q | 6 | 6 | 4 | 2 |
| Propane | 142 | 58 | 47 | 26 | Q | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 1,010 | 441 | 225 | 167 | 63 | 63 | 31 | 16 | 4 |
| Natural gas | 740 | 265 | 168 | 126 | 64 | 62 | 33 | 18 | 4 |
| Propane | 144 | 77 | 37 | 17 | Q | 6 | Q | Q | Q |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 4,722 | 2,257 | 1,046 | 797 | 304 | 187 | 86 | 36 | 8 |
| Buildings with cooling | 4,461 | 2,062 | 1,004 | 774 | 302 | 187 | 88 | 37 | 8 |
| Buildings with water heating | 4,423 | 2,032 | 992 | 775 | 307 | 186 | 86 | 36 | 8 |
| Buildings with cooking | 1,589 | 673 | 376 | 257 | 108 | 96 | 48 | 25 | 6 |
| Buildings with manufacturing | 259 | 86 | 75 | 51 | 28 | 11 | 5 | 2 | Q |
| Buildings with electricity generation | 410 | 92 | 77 | 64 | 55 | 58 | 35 | 22 | 6 |
| **Percent of floorspace heated** | | | | | | | | | |
| Not heated | 835 | 520 | 183 | 86 | 28 | 12 | 4 | Q | Q |
| 1 to 50 | 697 | 301 | 186 | 143 | 36 | 19 | 8 | 4 | 1 |
| 51 to 99 | 727 | 299 | 184 | 135 | 47 | 36 | 16 | 8 | 2 |
| 100 | 3,298 | 1,657 | 676 | 520 | 221 | 133 | 63 | 24 | 5 |
| **Percent of floorspace cooled** | | | | | | | | | |
| Not cooled | 1,096 | 716 | 225 | 110 | 30 | 13 | Q | Q | Q |
| 1 to 50 | 1,173 | 465 | 308 | 248 | 89 | 36 | 17 | 8 | 1 |
| 51 to 99 | 897 | 310 | 236 | 173 | 76 | 58 | 25 | 15 | 3 |
| 100 | 2,391 | 1,286 | 459 | 352 | 137 | 92 | 46 | 15 | 3 |
| **Percent lit when open** | | | | | | | | | |
| Zero | 70 | 54 | Q | Q | Q | N | N | Q | N |
| 1 to 50 | 1,099 | 564 | 259 | 182 | 54 | 29 | 8 | 3 | Q |
| 51 to 99 | 1,666 | 638 | 418 | 331 | 126 | 92 | 40 | 18 | 3 |
| 100 | 2,222 | 1,196 | 436 | 317 | 141 | 72 | 41 | 16 | 4 |
| Building never open/electricity not used | 501 | 326 | 105 | 49 | Q | Q | Q | Q | Q |
| **Percent lit during off hours** | | | | | | | | | |
| Zero | 2,489 | 1,381 | 590 | 359 | 95 | 38 | 21 | 4 | 1 |
| 1 to 50 | 2,441 | 1,035 | 521 | 448 | 211 | 138 | 57 | 26 | 5 |
| 51 to 100 | 202 | 90 | 42 | 25 | 15 | 15 | 8 | 5 | 1 |
| Building always open with no "off hours" | 102 | 50 | Q | 20 | Q | Q | 3 | 2 | (*) |
| Electricity not used | 323 | 222 | 58 | 31 | Q | Q | Q | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | |
| Heat pumps | 628 | 286 | 147 | 93 | 46 | 39 | 12 | 5 | 1 |
| Furnaces | 755 | 359 | 194 | 140 | 40 | 15 | 5 | 2 | (*) |
| Individual space heaters | 1,247 | 612 | 281 | 195 | 84 | 41 | 21 | 11 | 2 |
| District heat | 48 | Q | Q | Q | 6 | 10 | 9 | 5 | 2 |
| Boilers | 544 | 128 | 99 | 123 | 75 | 69 | 31 | 17 | 3 |
| Packaged heating units | 2,802 | 1,259 | 628 | 511 | 202 | 120 | 55 | 21 | 4 |
| Other | 62 | Q | Q | Q | Q | 8 | Q | Q | Q |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 796 | 403 | 246 | 72 | 21 | 7 | 2 | Q |
| Heat pumps | 692 | 321 | 168 | 91 | 52 | 41 | 13 | 5 | 1 |
| Individual air conditioners | 709 | 362 | 136 | 116 | 46 | 29 | 12 | 7 | 1 |
| District chilled water | 54 | Q | Q | 9 | Q | 10 | 9 | 4 | 1 |
| Central chillers | 163 | Q | Q | 36 | 29 | 36 | 23 | 18 | 5 |
| Packaged air conditioning units | 1,909 | 697 | 418 | 407 | 181 | 124 | 54 | 24 | 5 |
| Swamp coolers | 109 | 58 | Q | Q | Q | 7 | Q | Q | Q |
| Other | Q | Q | N | Q | Q | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | |
| Heating | 1,874 | 916 | 427 | 314 | 114 | 64 | 26 | 11 | 2 |
| Cooling | 1,971 | 952 | 454 | 329 | 124 | 67 | 28 | 15 | 3 |
| **Water-heating equipment** | | | | | | | | | |
| Centralized system | 3,348 | 1,653 | 789 | 538 | 198 | 103 | 45 | 17 | 4 |
| Distributed system | 690 | 322 | 120 | 143 | 57 | 28 | 13 | 5 | 1 |
| Combination of centralized and distributed system | 385 | 57 | 82 | 93 | 51 | 55 | 29 | 14 | 3 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | |
| Incandescent | 1,826 | 824 | 396 | 311 | 135 | 89 | 45 | 20 | 5 |
| Standard fluorescent | 4,649 | 2,192 | 1,045 | 786 | 308 | 189 | 85 | 37 | 8 |
| Compact fluorescent | 2,302 | 925 | 517 | 427 | 194 | 138 | 65 | 30 | 7 |
| High-intensity discharge | 525 | 106 | 99 | 140 | 74 | 53 | 30 | 17 | 5 |
| Halogen | 905 | 299 | 201 | 181 | 96 | 71 | 34 | 18 | 5 |
| LED | 473 | 108 | 94 | 112 | 61 | 48 | 28 | 17 | 5 |
| Other | 10 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | |
| Any refrigeration | 3,984 | 1,815 | 903 | 688 | 276 | 177 | 82 | 35 | 8 |
| Walk-in units | 811 | 344 | 150 | 116 | 60 | 73 | 40 | 22 | 5 |
| Cases or cabinets | 915 | 379 | 185 | 142 | 75 | 69 | 38 | 22 | 5 |
| Large cold storage areas | 78 | Q | Q | Q | Q | 9 | 6 | 4 | 1 |
| Commercial ice makers | 846 | 279 | 172 | 147 | 82 | 90 | 44 | 25 | 6 |
| Residential-type or compact units | 3,388 | 1,520 | 791 | 585 | 239 | 150 | 68 | 29 | 7 |
| Vending machines | 960 | 182 | 167 | 236 | 153 | 117 | 66 | 31 | 7 |
| No refrigeration | 1,573 | 962 | 326 | 196 | 56 | 22 | 8 | 2 | Q |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Office equipment (more than one may apply)** | | | | | | | | | |
| Desktop computers | 3,977 | 1,705 | 916 | 736 | 298 | 189 | 86 | 37 | 8 |
| With flat screen monitors | 3,847 | 1,627 | 879 | 727 | 296 | 187 | 86 | 37 | 8 |
| With multiple monitors | 911 | 250 | 220 | 201 | 100 | 78 | 36 | 20 | 6 |
| Laptop computers | 2,730 | 1,031 | 637 | 540 | 250 | 158 | 72 | 34 | 8 |
| Dedicated servers | 1,748 | 526 | 394 | 378 | 198 | 144 | 68 | 33 | 7 |
| Laser printers | 2,339 | 890 | 540 | 464 | 206 | 140 | 65 | 27 | 7 |
| Inkjet printers | 2,187 | 992 | 538 | 378 | 144 | 78 | 38 | 17 | 3 |
| FAX machines | 3,185 | 1,308 | 730 | 602 | 262 | 164 | 80 | 32 | 7 |
| Photocopiers | 2,163 | 700 | 468 | 492 | 231 | 156 | 75 | 33 | 7 |
| **Number of desktop computers** | | | | | | | | | |
| None | 1,581 | 1,072 | 313 | 147 | 34 | 10 | 4 | Q | Q |
| 1 to 4 | 2,039 | 1,197 | 478 | 287 | 52 | 17 | 8 | Q | N |
| 5 to 9 | 821 | 358 | 237 | 152 | 52 | 16 | 6 | Q | Q |
| 10 to 19 | 482 | 133 | 122 | 130 | 56 | 29 | 10 | 2 | Q |
| 20 to 49 | 355 | Q | 76 | 122 | 69 | 48 | 17 | 6 | 1 |
| 50 to 99 | 143 | Q | Q | 40 | 49 | 32 | 11 | 6 | 1 |
| 100 to 249 | 92 | N | Q | Q | 19 | 39 | 19 | 7 | 2 |
| 250 or more | 44 | N | N | N | Q | 9 | 15 | 15 | 5 |
| **Number of laptop computers** | | | | | | | | | |
| None | 2,827 | 1,746 | 592 | 344 | 82 | 41 | 18 | 4 | Q |
| 1 to 4 | 1,944 | 942 | 497 | 357 | 94 | 36 | 14 | 4 | Q |
| 5 to 9 | 350 | 77 | 99 | 83 | 54 | 25 | 9 | 2 | Q |
| 10 to 19 | 181 | Q | 32 | 51 | 43 | 28 | 11 | 5 | 1 |
| 20 to 49 | 144 | Q | Q | 33 | 42 | 37 | 14 | 6 | 1 |
| 50 to 99 | 58 | N | N | Q | 13 | 17 | 10 | 3 | 1 |
| 100 to 249 | 35 | N | N | Q | Q | 11 | 10 | 6 | 1 |
| 250 or more | 20 | N | N | Q | Q | Q | 5 | 7 | 3 |
| **Number of dedicated servers** | | | | | | | | | |
| None | 3,809 | 2,251 | 835 | 506 | 134 | 55 | 22 | 5 | 1 |
| 1 to 4 | 1,562 | 517 | 382 | 338 | 163 | 105 | 42 | 13 | 2 |
| 5 to 9 | 97 | Q | Q | 28 | 18 | 18 | 10 | 6 | 1 |
| 10 to 19 | 50 | Q | Q | Q | 12 | 10 | 10 | 6 | 1 |
| 20 to 49 | 25 | N | Q | Q | Q | 7 | 3 | 4 | 1 |
| 50 or more | 13 | N | Q | N | Q | Q | 4 | 4 | 2 |
| **Number of photocopiers** | | | | | | | | | |
| None | 3,394 | 2,077 | 761 | 392 | 101 | 43 | 15 | 4 | 1 |
| One | 1,325 | 590 | 322 | 275 | 81 | 37 | 17 | 2 | Q |
| 2 to 4 | 648 | 105 | 135 | 192 | 105 | 73 | 29 | 9 | 1 |
| 5 to 9 | 116 | Q | Q | 20 | 34 | 26 | 14 | 9 | 1 |
| 10 or more | 75 | Q | Q | Q | 11 | 20 | 15 | 13 | 5 |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Number of TVs or video displays** | | | | | | | | | |
| None | 2,718 | 1,637 | 578 | 343 | 101 | 39 | 15 | 4 | 1 |
| One | 1,145 | 661 | 265 | 159 | 38 | 14 | 6 | Q | Q |
| 2 to 4 | 1,035 | 368 | 280 | 231 | 98 | 40 | 14 | 5 | Q |
| 5 to 9 | 314 | 92 | 77 | 72 | 30 | 28 | 11 | 4 | 1 |
| 10 to 19 | 154 | Q | Q | 39 | 28 | 32 | 13 | 5 | 1 |
| 20 to 49 | 106 | Q | Q | 27 | 23 | 23 | 15 | 7 | 1 |
| 50 to 99 | 48 | N | Q | Q | 10 | 9 | 9 | 5 | 1 |
| 100 or more | 37 | N | N | Q | Q | 13 | 7 | 7 | 3 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 153 | 43 | 32 | 24 | 13 | 14 | 15 | 8 | 3 |
| Fast food or small restaurant | 173 | 38 | 39 | 33 | 20 | 19 | 14 | 8 | 3 |
| Cafeteria or large restaurant | 130 | Q | Q | 13 | 24 | 45 | 23 | 13 | 4 |
| Commercial kitchen/ food preparation area | 282 | 38 | 51 | 72 | 39 | 43 | 22 | 13 | 3 |
| Small kitchen area | 736 | 316 | 187 | 132 | 48 | 30 | 14 | 7 | 2 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | |
| Data center or server farm | 97 | Q | Q | Q | 18 | 15 | 13 | 12 | 4 |
| Computer-based training room | 244 | 31 | 29 | 52 | 43 | 42 | 27 | 16 | 4 |
| Student or public computer center | 238 | 30 | 35 | 48 | 38 | 49 | 25 | 13 | 1 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | |
| Economizer cycle | 601 | 128 | 95 | 137 | 82 | 83 | 46 | 25 | 5 |
| Regular HVAC maintenance | 3,178 | 1,286 | 706 | 614 | 277 | 169 | 82 | 36 | 8 |
| Building automation system (BAS)[2] | 781 | 197 | 130 | 163 | 94 | 101 | 62 | 28 | 6 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | |
| Multipaned windows | 3,012 | 1,278 | 708 | 531 | 236 | 154 | 68 | 30 | 6 |
| Tinted window glass | 1,875 | 722 | 410 | 360 | 184 | 114 | 55 | 26 | 5 |
| Reflective window glass | 549 | 183 | 129 | 107 | 53 | 45 | 19 | 10 | 2 |
| External overhangs or awnings | 1,867 | 855 | 448 | 321 | 114 | 78 | 33 | 15 | 3 |
| Skylights or atriums | 591 | 138 | 146 | 144 | 62 | 52 | 31 | 15 | 4 |
| Light scheduling | 918 | 304 | 188 | 182 | 102 | 77 | 40 | 19 | 5 |
| Occupancy sensors | 813 | 172 | 153 | 196 | 110 | 99 | 54 | 24 | 6 |
| Multi-level lighting or dimming | 349 | 78 | 78 | 72 | 47 | 39 | 19 | 13 | 2 |
| Daylight harvesting | 125 | 39 | Q | 26 | 16 | 14 | 10 | 4 | 1 |
| Demand responsive lighting | 176 | 55 | 44 | 38 | 19 | 9 | 7 | 3 | 1 |
| Building automation system (BAS) for lighting[2] | 208 | 42 | 35 | 43 | 27 | 30 | 19 | 9 | 3 |

## Table B6. Building size, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 5,557 | 2,777 | 1,229 | 884 | 332 | 199 | 90 | 38 | 8 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | |
| Heating | 3,699 | 1,737 | 842 | 624 | 242 | 149 | 71 | 28 | 6 |
| Cooling | 3,517 | 1,604 | 813 | 610 | 236 | 148 | 73 | 28 | 6 |
| Lighting | 4,757 | 2,281 | 1,072 | 796 | 303 | 180 | 84 | 34 | 7 |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Principal building activity** | | | | | | | | | |
| Education | 12,239 | 391 | 353 | 1,212 | 1,492 | 3,363 | 3,020 | 2,358 | Q |
| Food sales | 1,252 | 360 | Q | Q | Q | Q | Q | N | N |
| Food service | 1,819 | 788 | 640 | 355 | Q | Q | N | N | N |
| Health care | 4,155 | 268 | 241 | 364 | 316 | 529 | 350 | 859 | 1,227 |
| Inpatient | 2,374 | N | N | Q | Q | 220 | 196 | 677 | 1,219 |
| Outpatient | 1,781 | 268 | 241 | 355 | 263 | 309 | Q | 182 | Q |
| Lodging | 5,826 | 85 | 214 | 705 | 764 | 1,270 | 1,127 | 919 | 742 |
| Mercantile | 11,330 | 730 | 1,052 | 1,821 | 1,648 | 1,909 | 2,178 | 1,264 | 726 |
| Retail (other than mall) | 5,439 | 661 | 684 | 1,132 | 821 | Q | 1,169 | Q | Q |
| Enclosed and strip malls | 5,890 | Q | 367 | 689 | 827 | 1,428 | 1,009 | 805 | 696 |
| Office | 15,952 | 1,520 | 1,663 | 2,012 | 2,333 | 2,203 | 2,054 | 1,946 | 2,221 |
| Public assembly | 5,559 | 498 | 536 | 1,108 | 861 | 627 | 553 | 748 | 627 |
| Public order and safety | 1,440 | Q | 221 | Q | Q | Q | Q | Q | Q |
| Religious worship | 4,557 | 572 | 790 | 1,443 | 926 | 585 | Q | Q | N |
| Service | 4,630 | 1,031 | 1,051 | 1,253 | 607 | Q | Q | Q | Q |
| Warehouse and storage | 13,077 | 1,127 | 1,329 | 2,331 | 1,814 | 1,632 | 1,946 | 1,827 | 1,071 |
| Other | 2,002 | 156 | Q | Q | Q | Q | Q | Q | Q |
| Vacant | 3,256 | 404 | 376 | 791 | 521 | 641 | Q | Q | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 3,983 | 640 | 519 | 771 | 527 | 471 | 442 | Q | Q |
| 1920 to 1945 | 6,025 | 777 | 635 | 1,152 | 880 | 569 | 719 | 579 | 713 |
| 1946 to 1959 | 7,381 | 918 | 793 | 1,328 | 829 | 1,315 | 927 | 1,002 | 269 |
| 1960 to 1969 | 10,362 | 806 | 1,149 | 1,773 | 1,469 | 1,736 | 1,333 | 1,444 | 653 |
| 1970 to 1979 | 10,846 | 974 | 1,069 | 1,862 | 1,557 | 1,563 | 1,488 | 1,151 | 1,181 |
| 1980 to 1989 | 15,230 | 1,238 | 1,655 | 2,430 | 2,362 | 1,845 | 1,872 | 2,561 | 1,268 |
| 1990 to 1999 | 13,803 | 1,281 | 1,461 | 1,871 | 1,628 | 2,732 | 1,882 | 1,694 | 1,254 |
| 2000 to 2003 | 7,215 | 527 | 512 | 1,140 | 893 | 1,083 | 1,751 | 678 | 632 |
| 2004 to 2007 | 6,524 | 511 | 527 | 863 | 1,004 | 1,495 | 753 | 778 | 592 |
| 2008 to 2012 | 5,723 | 369 | 581 | 914 | 768 | 1,110 | 1,248 | 578 | Q |
| **Census region** | | | | | | | | | |
| Northeast | 15,534 | 1,057 | 1,248 | 2,408 | 1,644 | 2,676 | 2,542 | 2,232 | 1,727 |
| Midwest | 18,919 | 1,858 | 1,872 | 2,889 | 3,029 | 2,729 | 2,400 | 2,726 | 1,418 |
| South | 34,279 | 3,383 | 3,535 | 5,209 | 4,528 | 6,139 | 5,152 | 3,681 | 2,652 |
| West | 18,360 | 1,744 | 2,245 | 3,599 | 2,716 | 2,374 | 2,321 | 2,084 | 1,277 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 31,898 | 2,913 | 3,193 | 5,437 | 4,358 | 5,001 | 4,264 | 4,336 | 2,396 |
| Mixed-humid | 27,873 | 2,741 | 2,637 | 3,870 | 3,163 | 4,817 | 4,215 | 3,445 | 2,984 |
| Mixed-dry/Hot-dry | 12,037 | 1,034 | 1,630 | 2,439 | 1,922 | 1,480 | 1,666 | 1,328 | 536 |
| Hot-humid | 12,831 | 1,148 | 1,222 | 1,929 | 2,099 | 2,204 | 2,004 | 1,287 | 938 |
| Marine | 2,454 | Q | 218 | 429 | 375 | 416 | 265 | 327 | Q |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Number of floors** | | | | | | | | | |
| One | 39,809 | 6,244 | 6,044 | 8,129 | 5,761 | 5,643 | 4,355 | 2,630 | 1,004 |
| Two | 20,206 | 1,315 | 2,181 | 4,162 | 3,584 | 3,882 | 2,538 | 1,915 | 630 |
| Three | 8,140 | 416 | 536 | 1,234 | 1,655 | 1,624 | 1,537 | 918 | Q |
| Four to nine | 13,535 | Q | Q | 581 | 906 | 2,708 | 3,552 | 3,466 | 2,116 |
| Ten or more | 5,404 | N | N | N | Q | Q | 433 | 1,795 | 3,104 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | |
| Any elevators | 32,120 | Q | 320 | 1,678 | 3,198 | 5,951 | 7,344 | 7,703 | 5,885 |
| Number of elevators | | | | | | | | | |
| One | 11,158 | Q | 297 | 1,612 | 2,378 | 2,838 | 2,391 | 1,351 | Q |
| Two to five | 12,817 | N | Q | Q | 818 | 3,093 | 4,565 | 3,660 | 592 |
| Six or more | 8,145 | N | N | N | Q | Q | 387 | 2,692 | 5,043 |
| Any escalators | 3,654 | N | N | Q | N | Q | Q | 503 | 2,758 |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 17,751 | 5,362 | 3,843 | 4,334 | 1,791 | 1,332 | 677 | Q | Q |
| 5 to 9 | 8,973 | 1,768 | 2,389 | 2,454 | 1,437 | 447 | Q | Q | Q |
| 10 to 19 | 9,623 | 794 | 1,793 | 3,135 | 2,017 | 1,051 | 574 | Q | Q |
| 20 to 49 | 14,514 | 117 | 869 | 3,314 | 3,615 | 4,036 | 1,903 | 595 | Q |
| 50 to 99 | 13,476 | N | Q | 719 | 2,339 | 4,388 | 4,152 | 1,544 | Q |
| 100 to 249 | 10,941 | N | N | Q | 686 | 2,328 | 2,861 | 4,078 | 845 |
| 250 or more | 11,815 | N | N | Q | Q | 337 | 1,879 | 3,842 | 5,718 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 8,220 | 2,012 | 1,475 | 2,100 | 1,164 | 743 | 384 | Q | Q |
| 40 to 48 | 15,828 | 2,215 | 2,140 | 3,053 | 2,139 | 2,784 | 2,146 | 1,068 | Q |
| 49 to 60 | 20,529 | 1,488 | 2,496 | 3,768 | 3,174 | 3,675 | 2,644 | 2,315 | 969 |
| 61 to 84 | 15,867 | 943 | 1,182 | 2,546 | 2,628 | 2,550 | 2,481 | 2,164 | 1,373 |
| 85 to 167 | 9,395 | 730 | 598 | 1,056 | 1,141 | 1,686 | 1,926 | 1,549 | 710 |
| Open continuously | 17,253 | 653 | 1,009 | 1,582 | 1,671 | 2,480 | 2,835 | 3,427 | 3,597 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 67,550 | 7,077 | 7,953 | 11,987 | 9,482 | 9,104 | 8,905 | 7,634 | 5,408 |
| Owner occupied | 30,637 | 3,871 | 4,118 | 6,045 | 4,067 | 3,712 | 4,306 | 2,976 | 1,542 |
| Leased to tenant(s) | 26,115 | 2,526 | 2,932 | 4,149 | 3,656 | 4,051 | 3,493 | 3,084 | 2,223 |
| Owner occupied and leased | 8,873 | 382 | 635 | 1,305 | 1,353 | 1,106 | 1,025 | 1,482 | 1,584 |
| Unoccupied | 1,925 | 298 | 267 | 488 | Q | Q | Q | Q | Q |
| Government owned | 19,543 | 964 | 947 | 2,117 | 2,435 | 4,814 | 3,510 | 3,090 | 1,666 |
| Federal | 1,573 | Q | Q | Q | Q | Q | Q | Q | 806 |
| State | 5,539 | 230 | Q | 621 | 647 | 1,327 | 1,392 | 1,024 | Q |
| Local | 12,431 | 713 | 765 | 1,373 | 1,649 | 3,351 | 1,989 | 1,928 | 663 |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | |
| Building owner | 73,702 | 6,866 | 7,505 | 11,760 | 10,079 | 11,577 | 10,606 | 9,289 | 6,020 |
| Business owner or tenant | 11,309 | 996 | 1,226 | 2,045 | 1,493 | 2,000 | 1,569 | 1,245 | 734 |
| Property management | 1,250 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 832 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | |
| Building owner | 76,271 | 7,128 | 7,662 | 12,336 | 10,633 | 12,063 | 11,036 | 9,354 | 6,058 |
| Business owner or tenant | 8,256 | 737 | 993 | 1,375 | 1,011 | 1,405 | 1,072 | 971 | 692 |
| Property management | 880 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 1,686 | 121 | 218 | Q | Q | Q | Q | Q | Q |
| **Number of establishments** | | | | | | | | | |
| One | 54,994 | 6,548 | 6,560 | 9,593 | 7,470 | 8,621 | 7,599 | 5,876 | 2,727 |
| 2 to 5 | 17,756 | 1,068 | 1,720 | 2,812 | 2,299 | 2,545 | 2,929 | 2,726 | 1,657 |
| 6 to 10 | 4,425 | Q | 270 | 871 | 733 | 1,062 | 528 | 416 | 493 |
| 11 to 20 | 3,704 | Q | Q | 289 | 798 | 760 | 715 | 742 | 358 |
| More than 20 | 3,821 | Q | N | Q | Q | 456 | 484 | 872 | 1,780 |
| Currently unoccupied | 2,393 | 336 | 319 | 538 | Q | Q | Q | Q | Q |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 5,446 | 6,076 | 8,738 | 7,430 | 8,239 | 7,008 | 5,683 | 3,654 |
| Primary or secondary school | 4,616 | 302 | 261 | 758 | 716 | 790 | 949 | 792 | Q |
| College or university | 4,068 | Q | Q | 416 | 491 | 975 | 1,136 | 857 | Q |
| Office complex | 3,456 | 229 | 262 | 439 | 508 | 509 | 385 | 561 | 562 |
| Retail complex | 5,159 | 328 | 426 | 777 | 802 | 955 | 1,014 | 660 | Q |
| Storage complex | 3,212 | 517 | 513 | 678 | Q | Q | 336 | Q | Q |
| Religious campus or complex | 1,932 | 308 | 335 | 652 | Q | Q | Q | Q | N |
| Health care complex | 3,362 | Q | Q | Q | Q | 459 | 704 | 781 | 1,055 |
| Lodging or resort complex | 1,295 | 67 | Q | Q | Q | Q | Q | Q | Q |
| Transportation complex | 554 | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 2,107 | 171 | Q | Q | Q | Q | Q | Q | Q |
| Other | 5,057 | 522 | 582 | 947 | 717 | 962 | 549 | 548 | Q |
| **Predominant exterior wall material** | | | | | | | | | |
| Brick, stone, or stucco | 40,463 | 3,218 | 3,567 | 6,545 | 5,960 | 7,706 | 5,871 | 4,912 | 2,684 |
| Concrete (block or poured) | 20,726 | 1,440 | 1,813 | 3,094 | 2,631 | 3,630 | 3,968 | 2,819 | 1,330 |
| Concrete panels | 8,693 | 125 | Q | 810 | 1,135 | 1,260 | 1,461 | 1,622 | 1,907 |
| Siding or shingles | 5,750 | 1,673 | 1,242 | 1,384 | 698 | Q | Q | Q | Q |
| Metal panels | 8,673 | 1,495 | 1,807 | 2,049 | 1,144 | 903 | 513 | 581 | Q |
| Window glass | 1,340 | Q | Q | Q | Q | Q | Q | 321 | 496 |
| Other | 856 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 592 | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Predominant roof material** | | | | | | | | | |
| Metal surfacing | 15,916 | 2,742 | 2,991 | 3,647 | 1,836 | 2,113 | 1,319 | 602 | Q |
| Synthetic or rubber | 25,817 | 1,011 | 1,330 | 2,970 | 3,660 | 4,730 | 4,464 | 5,001 | 2,651 |
| Built-up | 21,835 | 959 | 1,168 | 2,689 | 3,059 | 4,057 | 3,860 | 3,534 | 2,510 |
| Slate or tile shingles | 4,306 | 618 | 715 | 770 | 691 | 413 | Q | Q | Q |
| Wooden materials (including shingles) | 1,139 | 269 | 275 | 240 | Q | Q | Q | Q | N |
| Asphalt, fiberglass, or other shingles | 15,104 | 2,362 | 2,280 | 3,369 | 2,329 | 2,038 | 1,412 | 681 | 632 |
| Concrete | 1,642 | Q | Q | Q | Q | Q | 412 | Q | Q |
| Other | 678 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 657 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | | |
| Roof tilt | | | | | | | | | |
| Flat | 49,623 | 2,236 | 2,906 | 6,167 | 7,037 | 9,248 | 8,616 | 8,394 | 5,019 |
| Shallow pitch | 23,853 | 3,431 | 3,481 | 4,569 | 3,134 | 2,921 | 2,983 | 1,921 | 1,412 |
| Steeper pitch | 13,617 | 2,374 | 2,513 | 3,368 | 1,746 | 1,749 | 816 | 409 | 643 |
| Cool roof | 19,630 | 951 | 1,029 | 2,372 | 1,985 | 3,003 | 3,427 | 4,182 | 2,683 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | |
| Any type of renovation | 42,216 | 2,820 | 3,378 | 5,712 | 5,407 | 6,912 | 6,095 | 6,871 | 5,021 |
| Addition or annex | 13,022 | 504 | 744 | 1,315 | 1,546 | 2,408 | 1,792 | 2,794 | 1,920 |
| Reduction in floorspace | 1,753 | 119 | Q | Q | Q | Q | Q | 342 | 240 |
| Roof replacement | 20,917 | 1,317 | 1,609 | 2,852 | 2,162 | 3,345 | 2,628 | 3,929 | 3,075 |
| Exterior wall replacement | 4,230 | 317 | 250 | 539 | 472 | 535 | 565 | 711 | 841 |
| Interior wall reconfiguration | 21,340 | 1,213 | 1,341 | 2,463 | 2,677 | 3,501 | 2,857 | 4,208 | 3,081 |
| Window replacement | 12,265 | 735 | 868 | 1,609 | 1,671 | 2,118 | 1,536 | 1,944 | 1,783 |
| HVAC equipment upgrade | 26,779 | 1,353 | 1,751 | 3,263 | 3,300 | 4,288 | 4,121 | 4,776 | 3,928 |
| Lighting upgrade | 25,503 | 1,221 | 1,584 | 2,678 | 2,838 | 4,269 | 3,685 | 5,025 | 4,202 |
| Electrical upgrade | 16,160 | 1,066 | 1,121 | 1,944 | 1,757 | 2,497 | 2,001 | 3,185 | 2,590 |
| Plumbing system upgrade | 13,828 | 908 | 1,010 | 1,505 | 1,722 | 2,329 | 1,159 | 2,860 | 2,335 |
| Insulation upgrade | 7,607 | 563 | 560 | 1,057 | 968 | 1,264 | 767 | 1,251 | 1,178 |
| Fire, safety, or security upgrade | 17,196 | 803 | 969 | 1,715 | 1,869 | 2,868 | 2,242 | 3,515 | 3,215 |
| Structural upgrade | 3,913 | 175 | 255 | 509 | Q | 679 | 426 | 663 | 819 |
| Other | 848 | Q | Q | Q | Q | Q | Q | Q | Q |
| No renovations | 39,154 | 4,852 | 4,941 | 7,479 | 5,742 | 5,896 | 5,073 | 3,274 | 1,897 |
| Buildings constructed 2008 or later | 5,723 | 369 | 581 | 914 | 768 | 1,110 | 1,248 | 578 | Q |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 84,869 | 7,492 | 8,489 | 13,565 | 11,672 | 13,604 | 12,362 | 10,652 | 7,033 |
| Natural gas | 58,725 | 3,757 | 4,817 | 8,823 | 8,148 | 9,935 | 9,416 | 8,293 | 5,535 |
| Fuel oil | 20,200 | 604 | 559 | 1,123 | 1,490 | 2,822 | 2,858 | 5,370 | 5,374 |
| District heat | 5,964 | Q | Q | Q | 213 | 704 | 1,313 | 1,565 | 2,001 |
| District chilled water | 4,608 | Q | Q | 145 | Q | 567 | 1,273 | 1,064 | 1,306 |
| Propane | 7,706 | 762 | 959 | 1,124 | 920 | 1,042 | 1,061 | 959 | 879 |
| Other | 3,826 | 193 | 303 | 486 | 520 | 566 | 564 | 809 | 384 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 49,030 | 4,185 | 4,384 | 7,716 | 6,897 | 8,668 | 7,321 | 5,991 | 3,869 |
| Natural gas | 49,511 | 3,323 | 4,343 | 7,989 | 7,228 | 8,524 | 7,507 | 6,990 | 3,608 |
| Fuel oil | 4,351 | 412 | 366 | 725 | 576 | 698 | 548 | 632 | 394 |
| District heat | 5,925 | Q | Q | Q | 213 | 704 | 1,313 | 1,553 | 1,974 |
| Propane | 3,067 | 538 | 682 | 767 | 329 | Q | Q | Q | Q |
| Other | 1,010 | 129 | 213 | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | |
| Electricity | 26,205 | 2,766 | 2,865 | 4,433 | 3,871 | 4,892 | 3,646 | 2,129 | 1,603 |
| Natural gas | 42,988 | 3,050 | 3,802 | 6,957 | 6,174 | 6,844 | 6,624 | 6,487 | 3,050 |
| Fuel oil | 2,542 | 329 | 280 | 509 | Q | 413 | 348 | Q | Q |
| District heat | 5,797 | Q | Q | Q | 213 | 704 | 1,283 | 1,472 | 1,956 |
| Propane | 1,948 | 444 | 493 | 556 | Q | Q | Q | Q | N |
| Other | 598 | 93 | Q | Q | Q | Q | Q | Q | N |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 76,034 | 6,107 | 7,252 | 12,211 | 10,615 | 12,618 | 11,034 | 9,887 | 6,310 |
| Natural gas | 732 | Q | Q | Q | Q | Q | Q | Q | 167 |
| District chilled water | 4,608 | Q | Q | 145 | Q | 567 | 1,273 | 1,064 | 1,306 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 42,755 | 3,881 | 4,348 | 6,926 | 5,975 | 6,672 | 6,162 | 5,005 | 3,786 |
| Natural gas | 39,523 | 2,081 | 2,809 | 5,657 | 5,643 | 7,528 | 6,819 | 5,995 | 2,990 |
| Fuel oil | 1,911 | Q | Q | Q | Q | Q | 238 | 370 | 215 |
| District heat | 4,551 | Q | Q | Q | Q | 425 | 965 | 1,318 | 1,652 |
| Propane | 1,575 | 171 | 321 | 376 | Q | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 25,151 | 1,351 | 1,625 | 2,651 | 2,279 | 4,530 | 4,204 | 4,658 | 3,854 |
| Natural gas | 24,770 | 819 | 1,252 | 2,124 | 2,271 | 4,526 | 4,677 | 5,172 | 3,930 |
| Propane | 2,001 | 242 | 281 | 253 | Q | 367 | Q | Q | Q |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 80,078 | 6,699 | 7,590 | 12,744 | 10,911 | 13,114 | 11,941 | 10,348 | 6,730 |
| Buildings with cooling | 79,294 | 6,124 | 7,304 | 12,357 | 10,813 | 13,069 | 12,152 | 10,518 | 6,958 |
| Buildings with water heating | 79,015 | 6,102 | 7,236 | 12,401 | 11,007 | 13,063 | 11,903 | 10,351 | 6,951 |
| Buildings with cooking | 38,546 | 2,073 | 2,733 | 4,134 | 3,858 | 6,870 | 6,587 | 6,969 | 5,322 |
| Buildings with manufacturing | 5,078 | 284 | 542 | 855 | 1,022 | 761 | 691 | 665 | Q |
| Buildings with electricity generation | 25,642 | 321 | 596 | 1,008 | 2,032 | 4,139 | 5,050 | 6,665 | 5,830 |
| **Percent of floorspace heated** | | | | | | | | | |
| Not heated | 7,015 | 1,342 | 1,310 | 1,360 | 1,007 | 804 | 474 | Q | Q |
| 1 to 50 | 10,130 | 951 | 1,387 | 2,365 | 1,292 | 1,359 | 1,146 | 1,131 | 500 |
| 51 to 99 | 14,650 | 914 | 1,338 | 2,048 | 1,657 | 2,469 | 2,163 | 2,202 | 1,859 |
| 100 | 55,298 | 4,833 | 4,866 | 8,332 | 7,962 | 9,287 | 8,632 | 7,015 | 4,371 |
| **Percent of floorspace cooled** | | | | | | | | | |
| Not cooled | 7,799 | 1,917 | 1,596 | 1,747 | 1,105 | 849 | Q | Q | Q |
| 1 to 50 | 18,891 | 1,430 | 2,249 | 3,943 | 3,123 | 2,489 | 2,432 | 2,150 | 1,076 |
| 51 to 99 | 22,728 | 935 | 1,738 | 2,766 | 2,679 | 4,077 | 3,496 | 4,007 | 3,029 |
| 100 | 37,676 | 3,759 | 3,316 | 5,648 | 5,011 | 6,503 | 6,225 | 4,360 | 2,853 |
| **Percent lit when open** | | | | | | | | | |
| Zero | 322 | 156 | Q | Q | Q | N | N | Q | N |
| 1 to 50 | 12,628 | 1,680 | 1,879 | 2,824 | 1,885 | 1,956 | 1,141 | 837 | Q |
| 51 to 99 | 34,814 | 1,924 | 3,060 | 5,326 | 4,519 | 6,445 | 5,539 | 5,220 | 2,781 |
| 100 | 35,726 | 3,474 | 3,151 | 5,070 | 5,071 | 5,043 | 5,560 | 4,552 | 3,806 |
| Building never open/electricity not used | 3,603 | 807 | 727 | 829 | Q | Q | Q | Q | Q |
| **Percent lit during off hours** | | | | | | | | | |
| Zero | 24,746 | 4,000 | 4,256 | 5,728 | 3,411 | 2,617 | 2,976 | 1,087 | 671 |
| 1 to 50 | 50,753 | 3,068 | 3,798 | 7,104 | 7,515 | 9,677 | 7,717 | 7,294 | 4,580 |
| 51 to 100 | 6,926 | 280 | 319 | 424 | 557 | 1,060 | 1,231 | 1,661 | 1,394 |
| Building always open with no "off hours" | 2,443 | 144 | Q | 309 | Q | Q | 437 | 610 | 388 |
| Electricity not used | 2,225 | 550 | 411 | 539 | Q | Q | Q | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | |
| Heat pumps | 11,846 | 868 | 1,038 | 1,477 | 1,642 | 2,664 | 1,549 | 1,527 | 1,080 |
| Furnaces | 8,654 | 1,091 | 1,416 | 2,233 | 1,439 | 1,042 | 683 | 466 | 284 |
| Individual space heaters | 20,766 | 1,747 | 2,025 | 3,115 | 3,021 | 2,763 | 2,915 | 2,970 | 2,211 |
| District heat | 5,925 | Q | Q | Q | 213 | 704 | 1,313 | 1,553 | 1,974 |
| Boilers | 22,443 | 400 | 734 | 2,008 | 2,707 | 4,938 | 4,258 | 4,970 | 2,430 |
| Packaged heating units | 49,188 | 3,809 | 4,622 | 8,246 | 7,237 | 8,489 | 7,569 | 5,991 | 3,225 |
| Other | 1,574 | Q | Q | Q | Q | 541 | Q | Q | Q |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 2,350 | 2,968 | 3,883 | 2,526 | 1,395 | 895 | 610 | Q |
| Heat pumps | 12,538 | 983 | 1,193 | 1,457 | 1,866 | 2,825 | 1,718 | 1,422 | 1,073 |
| Individual air conditioners | 12,420 | 1,027 | 972 | 1,855 | 1,606 | 1,956 | 1,652 | 2,091 | 1,262 |
| District chilled water | 4,608 | Q | Q | 145 | Q | 567 | 1,273 | 1,064 | 1,306 |
| Central chillers | 17,041 | Q | Q | 631 | 1,095 | 2,724 | 3,211 | 5,127 | 4,145 |
| Packaged air conditioning units | 45,153 | 2,154 | 3,082 | 6,557 | 6,466 | 8,705 | 7,447 | 6,702 | 4,039 |
| Swamp coolers | 1,918 | 155 | Q | Q | Q | 441 | Q | Q | Q |
| Other | 328 | Q | N | Q | Q | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | |
| Heating | 27,558 | 2,710 | 3,029 | 5,048 | 4,041 | 4,376 | 3,564 | 3,228 | 1,562 |
| Cooling | 30,702 | 2,797 | 3,246 | 5,184 | 4,358 | 4,623 | 3,895 | 4,201 | 2,397 |
| **Water-heating equipment** | | | | | | | | | |
| Centralized system | 47,534 | 4,906 | 5,731 | 8,549 | 7,125 | 7,181 | 6,120 | 4,924 | 2,998 |
| Distributed system | 12,688 | 1,011 | 890 | 2,318 | 1,983 | 1,904 | 1,846 | 1,516 | 1,220 |
| Combination of centralized and distributed system | 18,793 | 185 | 615 | 1,534 | 1,899 | 3,978 | 3,937 | 3,911 | 2,734 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | |
| Incandescent | 38,406 | 2,453 | 2,917 | 4,987 | 4,788 | 6,218 | 6,239 | 6,002 | 4,803 |
| Standard fluorescent | 80,081 | 6,466 | 7,589 | 12,533 | 11,063 | 13,217 | 11,745 | 10,552 | 6,915 |
| Compact fluorescent | 53,816 | 2,815 | 3,740 | 6,767 | 6,970 | 9,652 | 9,078 | 8,775 | 6,021 |
| High-intensity discharge | 23,396 | 373 | 736 | 2,175 | 2,712 | 3,766 | 4,244 | 4,981 | 4,409 |
| Halogen | 28,059 | 944 | 1,487 | 2,903 | 3,556 | 4,989 | 4,605 | 5,161 | 4,413 |
| LED | 22,071 | 348 | 714 | 1,882 | 2,252 | 3,479 | 3,919 | 4,866 | 4,612 |
| Other | 446 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | |
| Any refrigeration | 73,645 | 5,448 | 6,565 | 11,012 | 9,901 | 12,334 | 11,371 | 10,080 | 6,935 |
| Walk-in units | 28,361 | 1,039 | 1,103 | 1,837 | 2,247 | 5,193 | 5,729 | 6,233 | 4,981 |
| Cases or cabinets | 28,719 | 1,132 | 1,350 | 2,276 | 2,693 | 4,840 | 5,326 | 6,333 | 4,768 |
| Large cold storage areas | 4,171 | Q | Q | Q | Q | 718 | 825 | 1,139 | 804 |
| Commercial ice makers | 32,734 | 851 | 1,248 | 2,424 | 3,017 | 6,276 | 6,236 | 7,022 | 5,660 |
| Residential-type or compact units | 62,381 | 4,571 | 5,741 | 9,307 | 8,558 | 10,393 | 9,530 | 8,371 | 5,910 |
| Vending machines | 43,936 | 531 | 1,252 | 3,940 | 5,558 | 8,174 | 9,288 | 8,881 | 6,311 |
| No refrigeration | 13,448 | 2,593 | 2,335 | 3,093 | 2,017 | 1,584 | 1,044 | 643 | Q |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Office equipment (more than one may apply)** | | | | | | | | | |
| Desktop computers | 77,063 | 5,205 | 6,719 | 11,823 | 10,689 | 13,267 | 11,937 | 10,435 | 6,987 |
| With flat screen monitors | 76,160 | 4,970 | 6,465 | 11,674 | 10,601 | 13,147 | 11,885 | 10,435 | 6,982 |
| With multiple monitors | 30,946 | 776 | 1,648 | 3,238 | 3,594 | 5,464 | 5,117 | 5,908 | 5,201 |
| Laptop computers | 63,486 | 3,216 | 4,689 | 8,677 | 9,042 | 11,127 | 10,027 | 9,800 | 6,907 |
| Dedicated servers | 53,369 | 1,685 | 2,956 | 6,120 | 7,120 | 10,092 | 9,540 | 9,339 | 6,516 |
| Laser printers | 54,256 | 2,724 | 3,953 | 7,407 | 7,363 | 9,874 | 9,066 | 7,815 | 6,054 |
| Inkjet printers | 36,235 | 3,047 | 3,932 | 6,046 | 5,194 | 5,475 | 5,144 | 4,920 | 2,476 |
| FAX machines | 66,682 | 4,014 | 5,342 | 9,674 | 9,446 | 11,540 | 10,999 | 9,157 | 6,511 |
| Photocopiers | 59,277 | 2,210 | 3,478 | 7,873 | 8,247 | 10,930 | 10,451 | 9,504 | 6,583 |
| **Number of desktop computers** | | | | | | | | | |
| None | 10,030 | 2,836 | 2,181 | 2,281 | 1,228 | 651 | 478 | Q | Q |
| 1 to 4 | 15,669 | 3,502 | 3,440 | 4,422 | 1,878 | 1,102 | 1,095 | Q | N |
| 5 to 9 | 9,422 | 1,179 | 1,787 | 2,497 | 1,808 | 1,124 | 746 | Q | Q |
| 10 to 19 | 9,388 | 458 | 889 | 2,166 | 1,965 | 2,049 | 1,309 | 453 | Q |
| 20 to 49 | 13,094 | Q | 579 | 1,970 | 2,480 | 3,453 | 2,409 | 1,629 | 518 |
| 50 to 99 | 8,284 | Q | Q | 682 | 1,768 | 2,113 | 1,492 | 1,565 | 637 |
| 100 to 249 | 9,728 | N | Q | Q | 741 | 2,743 | 2,806 | 1,847 | 1,499 |
| 250 or more | 11,478 | N | N | N | Q | 682 | 2,081 | 4,474 | 4,191 |
| **Number of laptop computers** | | | | | | | | | |
| None | 23,607 | 4,825 | 4,211 | 5,427 | 2,875 | 2,791 | 2,388 | 923 | Q |
| 1 to 4 | 21,161 | 2,919 | 3,624 | 5,623 | 3,383 | 2,391 | 1,855 | 1,097 | Q |
| 5 to 9 | 8,345 | 244 | 750 | 1,358 | 1,921 | 1,800 | 1,292 | 601 | Q |
| 10 to 19 | 8,343 | Q | 253 | 900 | 1,561 | 2,057 | 1,510 | 1,327 | 690 |
| 20 to 49 | 9,643 | Q | Q | 498 | 1,566 | 2,523 | 1,939 | 1,826 | 1,221 |
| 50 to 99 | 5,234 | N | N | Q | 451 | 1,231 | 1,402 | 933 | 962 |
| 100 to 249 | 5,217 | N | N | Q | Q | 827 | 1,345 | 1,928 | 962 |
| 250 or more | 5,542 | N | N | Q | Q | Q | 683 | 2,088 | 2,425 |
| **Number of dedicated servers** | | | | | | | | | |
| None | 33,724 | 6,356 | 5,944 | 7,984 | 4,797 | 3,826 | 2,875 | 1,384 | 558 |
| 1 to 4 | 34,097 | 1,658 | 2,867 | 5,441 | 5,844 | 7,310 | 5,840 | 3,516 | 1,621 |
| 5 to 9 | 6,241 | Q | Q | 494 | 704 | 1,247 | 1,407 | 1,516 | 789 |
| 10 to 19 | 5,711 | Q | Q | Q | 372 | 777 | 1,392 | 1,854 | 1,179 |
| 20 to 49 | 3,758 | N | Q | Q | Q | 575 | 424 | 1,243 | 1,261 |
| 50 or more | 3,562 | N | Q | N | Q | Q | 477 | 1,210 | 1,666 |
| **Number of photocopiers** | | | | | | | | | |
| None | 27,816 | 5,831 | 5,422 | 6,231 | 3,671 | 2,988 | 1,964 | 1,219 | 490 |
| One | 17,080 | 1,815 | 2,382 | 4,336 | 2,818 | 2,479 | 2,284 | 625 | Q |
| 2 to 4 | 20,312 | 368 | 1,012 | 3,098 | 3,768 | 5,164 | 3,822 | 2,436 | 644 |
| 5 to 9 | 8,863 | Q | Q | 351 | 1,244 | 1,891 | 2,104 | 2,357 | 851 |
| 10 or more | 13,022 | Q | Q | Q | 416 | 1,396 | 2,242 | 4,087 | 4,747 |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Number of TVs or video displays** | | | | | | | | | |
| None | 24,339 | 4,604 | 4,079 | 5,439 | 3,612 | 2,722 | 2,067 | 1,224 | 593 |
| One | 9,990 | 1,908 | 1,947 | 2,434 | 1,355 | 1,110 | 821 | Q | Q |
| 2 to 4 | 16,465 | 1,160 | 2,057 | 3,690 | 3,530 | 2,690 | 1,742 | 1,193 | Q |
| 5 to 9 | 8,148 | 314 | 595 | 1,204 | 1,053 | 1,962 | 1,565 | 979 | 477 |
| 10 to 19 | 8,168 | Q | Q | 678 | 964 | 2,276 | 1,853 | 1,539 | 676 |
| 20 to 49 | 8,058 | Q | Q | 452 | 851 | 1,680 | 1,991 | 2,055 | 964 |
| 50 to 99 | 4,378 | N | Q | Q | 372 | 626 | 1,368 | 1,226 | 583 |
| 100 or more | 7,547 | N | N | Q | Q | 852 | 1,008 | 2,188 | 3,280 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 9,884 | 139 | 239 | 418 | 507 | 1,033 | 2,200 | 2,497 | 2,852 |
| Fast food or small restaurant | 9,787 | 131 | 307 | 541 | 749 | 1,375 | 1,859 | 2,223 | 2,601 |
| Cafeteria or large restaurant | 15,222 | Q | Q | 243 | 892 | 3,133 | 3,294 | 3,890 | 3,728 |
| Commercial kitchen/ food preparation area | 16,150 | 142 | 394 | 1,224 | 1,403 | 3,136 | 3,110 | 3,888 | 2,852 |
| Small kitchen area | 14,054 | 972 | 1,325 | 2,055 | 1,698 | 2,178 | 1,921 | 2,003 | 1,901 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | |
| Data center or server farm | 11,105 | Q | Q | Q | 619 | 1,090 | 1,859 | 3,747 | 3,452 |
| Computer-based training room | 17,723 | 102 | 223 | 856 | 1,619 | 3,093 | 3,717 | 4,586 | 3,527 |
| Student or public computer center | 14,341 | 101 | 255 | 862 | 1,352 | 3,495 | 3,482 | 3,614 | 1,180 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | |
| Economizer cycle | 30,749 | 398 | 720 | 2,280 | 2,924 | 5,905 | 6,350 | 7,119 | 5,053 |
| Regular HVAC maintenance | 69,244 | 3,875 | 5,175 | 9,894 | 9,902 | 11,857 | 11,348 | 10,269 | 6,924 |
| Building automation system (BAS)[2] | 37,051 | 630 | 972 | 2,613 | 3,473 | 7,262 | 8,451 | 7,883 | 5,767 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | |
| Multipaned windows | 60,362 | 3,852 | 5,164 | 8,620 | 8,605 | 10,660 | 9,407 | 8,629 | 5,425 |
| Tinted window glass | 45,025 | 2,215 | 3,008 | 5,833 | 6,571 | 7,933 | 7,434 | 7,431 | 4,600 |
| Reflective window glass | 15,908 | 573 | 969 | 1,680 | 1,847 | 3,086 | 2,581 | 2,897 | 2,276 |
| External overhangs or awnings | 32,188 | 2,530 | 3,275 | 5,157 | 4,097 | 5,423 | 4,501 | 4,217 | 2,987 |
| Skylights or atriums | 22,261 | 425 | 1,115 | 2,385 | 2,199 | 3,777 | 4,397 | 4,505 | 3,459 |
| Light scheduling | 30,263 | 984 | 1,417 | 2,928 | 3,730 | 5,570 | 5,355 | 5,378 | 4,903 |
| Occupancy sensors | 35,871 | 527 | 1,171 | 3,177 | 4,019 | 6,912 | 7,381 | 6,851 | 5,832 |
| Multi-level lighting or dimming | 14,534 | 237 | 576 | 1,169 | 1,663 | 2,647 | 2,467 | 3,563 | 2,211 |
| Daylight harvesting | 6,114 | 100 | Q | 432 | 560 | 971 | 1,492 | 1,191 | 1,244 |
| Demand responsive lighting | 4,738 | 154 | 340 | 639 | 655 | 703 | 912 | 777 | 557 |
| Building automation system (BAS) for lighting[2] | 12,068 | 135 | 288 | 693 | 1,040 | 2,270 | 2,583 | 2,644 | 2,413 |

## Table B7. Building size, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Building size | | | | | | | |
| | All buildings | 1,001 to 5,000 square feet | 5,001 to 10,000 square feet | 10,001 to 25,000 square feet | 25,001 to 50,000 square feet | 50,001 to 100,000 square feet | 100,001 to 200,000 square feet | 200,001 to 500,000 square feet | Over 500,000 square feet |
| **All buildings** | 87,093 | 8,041 | 8,900 | 14,105 | 11,917 | 13,918 | 12,415 | 10,724 | 7,074 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | |
| Heating | 63,167 | 5,154 | 6,085 | 9,898 | 8,637 | 10,459 | 9,938 | 7,956 | 5,040 |
| Cooling | 62,516 | 4,759 | 5,907 | 9,726 | 8,428 | 10,424 | 10,135 | 7,828 | 5,309 |
| Lighting | 78,594 | 6,738 | 7,814 | 12,689 | 10,841 | 12,653 | 11,576 | 9,753 | 6,531 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 502 | 352 | 290 | 336 | 415 | 425 | 339 | 119 |
| 5,001 to 10,000 | 1,229 | 160 | 112 | 158 | 148 | 231 | 197 | 145 | 78 |
| 10,001 to 25,000 | 884 | 121 | 81 | 109 | 118 | 152 | 119 | 124 | 57 |
| 25,001 to 50,000 | 332 | 39 | 24 | 40 | 45 | 66 | 44 | 52 | 22 |
| 50,001 to 100,000 | 199 | 16 | 18 | 26 | 22 | 26 | 39 | 37 | 16 |
| 100,001 to 200,000 | 90 | 8 | 7 | 10 | 10 | 14 | 14 | 18 | 9 |
| 200,001 to 500,000 | 38 | 3 | 4 | 5 | 4 | 9 | 6 | 5 | 2 |
| Over 500,000 | 8 | 1 | (*) | 1 | 1 | 2 | 1 | 1 | Q |
| **Principal building activity** | | | | | | | | | |
| Education | 389 | 40 | 48 | 61 | 38 | 47 | 64 | 70 | 21 |
| Food sales | 177 | Q | Q | Q | Q | 30 | 40 | Q | Q |
| Food service | 380 | 70 | 39 | 36 | 50 | 54 | 65 | 42 | Q |
| Health care | 157 | 15 | 12 | 17 | 28 | 34 | 22 | 19 | 10 |
| Inpatient | 10 | Q | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| Outpatient | 147 | Q | Q | 17 | 25 | 33 | 20 | 18 | Q |
| Lodging | 158 | 16 | 17 | 27 | 24 | 24 | 25 | 16 | 9 |
| Mercantile | 602 | 102 | 59 | 64 | 83 | 98 | 77 | 81 | 38 |
| Retail (other than mall) | 438 | 100 | 47 | 45 | 45 | 66 | 56 | 55 | 25 |
| Enclosed and strip malls | 164 | Q | 12 | 19 | 38 | 32 | 21 | 26 | Q |
| Office | 1,012 | 170 | 111 | 102 | 132 | 192 | 139 | 123 | 44 |
| Public assembly | 352 | 86 | 45 | 39 | 37 | 37 | 51 | 34 | 23 |
| Public order and safety | 84 | Q | Q | Q | Q | Q | 16 | Q | Q |
| Religious worship | 412 | 85 | 57 | 52 | 52 | 58 | 40 | 55 | Q |
| Service | 619 | 87 | 67 | 94 | 78 | 99 | 97 | 67 | 30 |
| Warehouse and storage | 796 | 73 | 55 | 65 | 88 | 160 | 163 | 134 | 58 |
| Other | 125 | Q | Q | Q | Q | 25 | 24 | 25 | Q |
| Vacant | 296 | 75 | 64 | 33 | 32 | 43 | 21 | Q | Q |
| **Census region** | | | | | | | | | |
| Northeast | 805 | 237 | 96 | 100 | 75 | 86 | 90 | 83 | 38 |
| Midwest | 1237 | 247 | 110 | 159 | 160 | 172 | 203 | 130 | 57 |
| South | 2247 | 232 | 229 | 232 | 274 | 427 | 385 | 322 | 147 |
| West | 1267 | 134 | 164 | 148 | 176 | 231 | 168 | 187 | 61 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 2,031 | 425 | 205 | 229 | 257 | 275 | 309 | 229 | 100 |
| Mixed-humid | 1,743 | 273 | 187 | 193 | 202 | 274 | 289 | 224 | 102 |
| Mixed-dry/Hot-dry | 837 | 75 | 129 | 105 | 104 | 153 | 84 | 135 | Q |
| Hot-humid | 799 | 55 | 62 | 89 | 106 | 185 | 143 | 120 | 38 |
| Marine | 147 | 21 | Q | Q | Q | Q | 19 | Q | Q |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Number of floors** | | | | | | | | | |
| One | 3,836 | 317 | 419 | 423 | 515 | 699 | 690 | 538 | 235 |
| Two | 1,158 | 252 | 130 | 170 | 136 | 171 | 109 | 149 | 41 |
| Three | 374 | 198 | 32 | 27 | 20 | 27 | 31 | 24 | 15 |
| Four to nine | 177 | 80 | 18 | 18 | 11 | 15 | 13 | 10 | 11 |
| Ten or more | 13 | 3 | 1 | 2 | 2 | 3 | 1 | 1 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | |
| Any elevators | 405 | 79 | 28 | 46 | 41 | 53 | 54 | 66 | 37 |
| Number of elevators | | | | | | | | | |
| One | 272 | 63 | 17 | 32 | 28 | 28 | 36 | 46 | 22 |
| Two to five | 118 | 15 | 10 | 11 | 12 | 21 | 17 | 18 | 14 |
| Six or more | 16 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 |
| Any escalators | 10 | Q | Q | 1 | 1 | 1 | 1 | 1 | Q |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 2,892 | 558 | 380 | 316 | 329 | 435 | 421 | 329 | 123 |
| 5 to 9 | 1,085 | 146 | 96 | 133 | 145 | 178 | 168 | 143 | 76 |
| 10 to 19 | 731 | 68 | 59 | 81 | 107 | 131 | 124 | 111 | 50 |
| 20 to 49 | 513 | 48 | 32 | 68 | 65 | 105 | 85 | 80 | 30 |
| 50 to 99 | 206 | 18 | 25 | 26 | 21 | 38 | 30 | 34 | 13 |
| 100 to 249 | 93 | 8 | 6 | 12 | 12 | 19 | 12 | 18 | 7 |
| 250 or more | 37 | 4 | 2 | 2 | 6 | 9 | 6 | 6 | 2 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 1,149 | 275 | 172 | 113 | 147 | 151 | 147 | 112 | 32 |
| 40 to 48 | 1,346 | 219 | 154 | 173 | 159 | 227 | 190 | 173 | 52 |
| 49 to 60 | 1,244 | 138 | 126 | 147 | 156 | 238 | 189 | 168 | 81 |
| 61 to 84 | 764 | 112 | 66 | 96 | 93 | 114 | 124 | 108 | 51 |
| 85 to 167 | 479 | 53 | 44 | 46 | 59 | 77 | 87 | 73 | 39 |
| Open continuously | 575 | 52 | 38 | 63 | 70 | 108 | 108 | 88 | 48 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 4,781 | 734 | 514 | 528 | 596 | 805 | 731 | 612 | 260 |
| Owner occupied | 2,466 | 434 | 258 | 264 | 311 | 344 | 386 | 327 | 143 |
| Leased to tenant(s) | 1,745 | 208 | 164 | 199 | 219 | 350 | 283 | 231 | 90 |
| Owner occupied and leased | 349 | 44 | 38 | 36 | 39 | 80 | 51 | 41 | 21 |
| Unoccupied | 221 | 49 | 54 | 29 | 27 | Q | Q | Q | Q |
| Government owned | 776 | 116 | 85 | 111 | 88 | 110 | 114 | 110 | 42 |
| Federal | 33 | Q | Q | Q | Q | Q | 3 | Q | N |
| State | 185 | 24 | 25 | 36 | 24 | 24 | 18 | 23 | Q |
| Local | 558 | 87 | 60 | 68 | 59 | 78 | 93 | 80 | 33 |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | |
| Building owner | 4,715 | 744 | 508 | 530 | 581 | 744 | 729 | 614 | 264 |
| Business owner or tenant | 724 | 85 | 82 | 100 | 94 | 151 | 105 | 73 | 34 |
| Property management | 54 | Q | Q | Q | Q | 12 | Q | Q | Q |
| Other | 64 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | |
| Building owner | 4,876 | 750 | 533 | 549 | 608 | 780 | 752 | 634 | 271 |
| Business owner or tenant | 540 | 69 | 59 | 80 | 64 | 107 | 78 | 56 | 26 |
| Property management | 35 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 106 | Q | Q | Q | 11 | 19 | 13 | 26 | Q |
| **Number of establishments** | | | | | | | | | |
| One | 4,205 | 658 | 433 | 484 | 500 | 660 | 668 | 569 | 232 |
| 2 to 5 | 862 | 113 | 97 | 100 | 116 | 154 | 129 | 104 | 49 |
| 6 to 10 | 147 | 11 | Q | 16 | 20 | 38 | 22 | 24 | Q |
| 11 to 20 | 68 | Q | Q | 7 | 11 | 18 | 9 | 11 | Q |
| More than 20 | 27 | 2 | Q | Q | Q | 11 | 3 | Q | Q |
| Currently unoccupied | 248 | 63 | 58 | 30 | 30 | 33 | Q | Q | Q |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 657 | 416 | 440 | 463 | 576 | 512 | 437 | 183 |
| Primary or secondary school | 237 | 17 | 37 | 35 | 24 | 32 | 42 | 40 | Q |
| College or university | 84 | 10 | 14 | 16 | 10 | 8 | 9 | 12 | Q |
| Office complex | 154 | 16 | Q | Q | 18 | 51 | 25 | 19 | Q |
| Retail complex | 258 | Q | 22 | 31 | 29 | 50 | 38 | 36 | 25 |
| Storage complex | 314 | Q | Q | Q | Q | 62 | 110 | 66 | Q |
| Religious campus or complex | 197 | 37 | 29 | 31 | 27 | 30 | Q | 21 | Q |
| Health care complex | 52 | Q | 1 | 7 | 11 | 8 | 13 | 4 | Q |
| Lodging or resort complex | 65 | Q | Q | Q | Q | 14 | Q | Q | Q |
| Transportation complex | 35 | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 104 | 16 | Q | Q | 16 | 24 | Q | Q | Q |
| Other | 371 | 54 | 31 | 39 | 46 | 52 | 57 | 69 | 23 |
| **Predominant exterior wall material** | | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 485 | 295 | 284 | 294 | 306 | 273 | 272 | 104 |
| Concrete (block or poured) | 1,121 | 109 | 191 | 197 | 136 | 192 | 140 | 107 | 49 |
| Concrete panels | 210 | Q | Q | 25 | 30 | 59 | 31 | 34 | 14 |
| Siding or shingles | 905 | 218 | 78 | 65 | 105 | 140 | 146 | 106 | 46 |
| Metal panels | 933 | Q | 23 | 56 | 113 | 204 | 248 | 186 | 84 |
| Window glass | 17 | N | Q | Q | Q | Q | Q | Q | Q |
| Other | 37 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 21 | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Predominant roof material** | | | | | | | | | |
| Metal surfacing | 1,672 | 138 | 84 | 120 | 204 | 294 | 390 | 299 | 143 |
| Synthetic or rubber | 911 | 175 | 123 | 115 | 114 | 132 | 95 | 100 | 56 |
| Built-up | 836 | 120 | 125 | 150 | 105 | 132 | 81 | 88 | 35 |
| Slate or tile shingles | 406 | 94 | 49 | 32 | 56 | 67 | 43 | 45 | 20 |
| Wooden materials (including shingles) | 157 | 28 | Q | 28 | 24 | Q | Q | Q | Q |
| Asphalt, fiberglass, or other shingles | 1,483 | 280 | 189 | 180 | 167 | 247 | 207 | 170 | 42 |
| Concrete | 51 | Q | Q | Q | Q | 10 | 8 | Q | Q |
| Other | 24 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 18 | Q | Q | Q | Q | Q | Q | Q | N |
| **Roof characteristics** | | | | | | | | | |
| Roof tilt | | | | | | | | | |
| Flat | 1,960 | 266 | 257 | 310 | 268 | 319 | 238 | 229 | 75 |
| Shallow pitch | 2,148 | 278 | 195 | 206 | 289 | 383 | 354 | 301 | 142 |
| Steeper pitch | 1,449 | 306 | 147 | 123 | 127 | 213 | 253 | 193 | 85 |
| Cool roof | 740 | 85 | 71 | 79 | 94 | 113 | 105 | 132 | 61 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | |
| Any type of renovation | 2,094 | 480 | 284 | 332 | 280 | 365 | 223 | 129 | N |
| Addition or annex | 444 | 60 | 55 | 87 | 55 | 72 | 69 | 46 | N |
| Reduction in floorspace | 71 | Q | Q | 20 | 7 | 9 | Q | Q | N |
| Roof replacement | 987 | 257 | 152 | 169 | 149 | 145 | 81 | 34 | N |
| Exterior wall replacement | 194 | 55 | 40 | 27 | 22 | 18 | 10 | 21 | N |
| Interior wall reconfiguration | 889 | 188 | 117 | 149 | 127 | 155 | 80 | 74 | N |
| Window replacement | 560 | 191 | 90 | 97 | 71 | 67 | 28 | 15 | N |
| HVAC equipment upgrade | 1,101 | 255 | 166 | 184 | 164 | 186 | 90 | 56 | N |
| Lighting upgrade | 982 | 236 | 152 | 171 | 134 | 170 | 70 | 49 | N |
| Electrical upgrade | 747 | 210 | 146 | 140 | 82 | 88 | 44 | 38 | N |
| Plumbing system upgrade | 644 | 188 | 103 | 109 | 72 | 79 | 49 | 44 | N |
| Insulation upgrade | 382 | 115 | 59 | 62 | 53 | 39 | 28 | 27 | N |
| Fire, safety, or security upgrade | 616 | 151 | 95 | 105 | 92 | 89 | 44 | 40 | N |
| Structural upgrade | 152 | 37 | 24 | 31 | 15 | 14 | 17 | 15 | N |
| Other | 39 | Q | Q | Q | Q | Q | Q | Q | N |
| No renovations | 3,160 | 369 | 315 | 307 | 404 | 550 | 622 | 593 | N |
| Buildings constructed 2008 or later | 303 | N | N | N | N | N | N | N | 303 |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 5,234 | 795 | 554 | 609 | 651 | 856 | 762 | 711 | 296 |
| Natural gas | 2,933 | 490 | 334 | 401 | 406 | 431 | 407 | 326 | 138 |
| Fuel oil | 467 | 100 | 53 | 75 | 58 | 50 | 51 | 53 | 27 |
| District heat | 48 | 12 | 5 | 9 | 10 | 2 | 3 | 6 | Q |
| District chilled water | 54 | Q | Q | 11 | 9 | 3 | 10 | 11 | Q |
| Propane | 510 | 80 | 49 | 54 | 62 | 52 | 89 | 92 | 31 |
| Other | 172 | 38 | 15 | 20 | 24 | 21 | 19 | 19 | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 2,858 | 356 | 320 | 308 | 370 | 513 | 398 | 413 | 182 |
| Natural gas | 2,612 | 452 | 310 | 357 | 353 | 383 | 352 | 279 | 126 |
| Fuel oil | 270 | 78 | 39 | 52 | 21 | 19 | 23 | 28 | Q |
| District heat | 48 | 12 | 5 | 9 | 10 | 2 | 3 | 6 | Q |
| Propane | 342 | 60 | 32 | 27 | 48 | 36 | 59 | 58 | Q |
| Other | 101 | 26 | Q | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | |
| Electricity | 1,819 | 181 | 187 | 161 | 219 | 363 | 269 | 306 | 133 |
| Natural gas | 2,322 | 424 | 266 | 326 | 311 | 336 | 320 | 237 | 103 |
| Fuel oil | 205 | 65 | 29 | 37 | Q | Q | 20 | Q | Q |
| District heat | 47 | 12 | 5 | 9 | 10 | 2 | 2 | 6 | Q |
| Propane | 261 | 40 | Q | Q | 34 | 28 | 56 | 42 | Q |
| Other | 67 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 4,413 | 639 | 472 | 528 | 555 | 727 | 654 | 606 | 232 |
| Natural gas | 12 | Q | Q | Q | Q | Q | Q | Q | Q |
| District chilled water | 54 | Q | Q | 11 | 9 | 3 | 10 | 11 | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 2,658 | 360 | 267 | 278 | 342 | 495 | 377 | 393 | 145 |
| Natural gas | 1,758 | 280 | 189 | 269 | 245 | 243 | 249 | 200 | 83 |
| Fuel oil | 77 | 28 | Q | 14 | Q | Q | Q | Q | Q |
| District heat | 25 | 7 | 2 | 5 | 4 | 1 | 2 | Q | Q |
| Propane | 142 | Q | Q | Q | Q | 21 | 30 | 22 | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 1,010 | 166 | 109 | 108 | 130 | 148 | 145 | 144 | 60 |
| Natural gas | 740 | 118 | 96 | 105 | 93 | 103 | 113 | 78 | 34 |
| Propane | 144 | Q | 19 | Q | 14 | 9 | 27 | 31 | Q |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 4,722 | 736 | 517 | 559 | 599 | 754 | 675 | 613 | 270 |
| Buildings with cooling | 4,461 | 641 | 477 | 538 | 563 | 730 | 663 | 613 | 235 |
| Buildings with water heating | 4,423 | 669 | 460 | 540 | 577 | 727 | 631 | 587 | 231 |
| Buildings with cooking | 1,589 | 269 | 189 | 188 | 195 | 221 | 232 | 210 | 84 |
| Buildings with manufacturing | 259 | 34 | 21 | 25 | 32 | 51 | 31 | 48 | Q |
| Buildings with electricity generation | 410 | 36 | 24 | 57 | 60 | 59 | 63 | 69 | 42 |
| **Percent of floorspace heated** | | | | | | | | | |
| Not heated | 835 | 114 | 83 | 80 | 85 | 161 | 170 | 109 | 33 |
| 1 to 50 | 697 | 107 | 81 | 74 | 101 | 134 | 101 | 69 | 30 |
| 51 to 99 | 727 | 144 | 85 | 82 | 76 | 121 | 94 | 87 | 37 |
| 100 | 3,298 | 484 | 350 | 403 | 421 | 500 | 480 | 457 | 203 |
| **Percent of floorspace cooled** | | | | | | | | | |
| Not cooled | 1,096 | 209 | 122 | 100 | 121 | 185 | 182 | 109 | 68 |
| 1 to 50 | 1,173 | 199 | 141 | 136 | 148 | 203 | 157 | 138 | 51 |
| 51 to 99 | 897 | 161 | 93 | 106 | 109 | 130 | 128 | 124 | 46 |
| 100 | 2,391 | 281 | 243 | 297 | 306 | 397 | 378 | 352 | 137 |
| **Percent lit when open** | | | | | | | | | |
| Zero | 70 | Q | Q | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 1,099 | 236 | 130 | 123 | 124 | 179 | 120 | 135 | 52 |
| 51 to 99 | 1,666 | 243 | 183 | 217 | 232 | 249 | 223 | 226 | 92 |
| 100 | 2,222 | 264 | 208 | 258 | 268 | 399 | 387 | 307 | 130 |
| Building never open/electricity not used | 501 | 102 | 74 | 42 | 58 | 77 | 108 | Q | Q |
| **Percent lit during off hours** | | | | | | | | | |
| Zero | 2,489 | 417 | 288 | 258 | 281 | 407 | 367 | 335 | 135 |
| 1 to 50 | 2,441 | 357 | 247 | 312 | 333 | 393 | 335 | 321 | 143 |
| 51 to 100 | 202 | 21 | 17 | 32 | 22 | 32 | 44 | 29 | 5 |
| Building always open with no "off hours" | 102 | Q | Q | Q | 14 | 24 | 17 | 26 | Q |
| Electricity not used | 323 | 55 | 45 | Q | 34 | 59 | 83 | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | |
| Heat pumps | 628 | 68 | 70 | 61 | 57 | 126 | 102 | 99 | 46 |
| Furnaces | 755 | 112 | 76 | 88 | 107 | 138 | 118 | 81 | 36 |
| Individual space heaters | 1,247 | 249 | 170 | 160 | 185 | 167 | 139 | 117 | 60 |
| District heat | 48 | 12 | 5 | 9 | 10 | 2 | 3 | 6 | Q |
| Boilers | 544 | 132 | 75 | 91 | 59 | 49 | 50 | 60 | 28 |
| Packaged heating units | 2,802 | 382 | 283 | 343 | 370 | 442 | 421 | 397 | 163 |
| Other | 62 | Q | Q | Q | Q | Q | 11 | Q | Q |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 269 | 145 | 192 | 203 | 234 | 235 | 192 | 76 |
| Heat pumps | 692 | 69 | 76 | 71 | 67 | 137 | 124 | 98 | 50 |
| Individual air conditioners | 709 | 184 | 109 | 89 | 86 | 87 | 78 | 63 | 12 |
| District chilled water | 54 | Q | Q | 11 | 9 | 3 | 10 | 11 | Q |
| Central chillers | 163 | 17 | 18 | 25 | 21 | 26 | 22 | 20 | 15 |
| Packaged air conditioning units | 1,909 | 202 | 185 | 241 | 258 | 341 | 271 | 301 | 110 |
| Swamp coolers | 109 | 16 | Q | 13 | 16 | 13 | 15 | 13 | Q |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | N |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | |
| Heating | 1,874 | 447 | 307 | 328 | 360 | 431 | N | N | N |
| Cooling | 1,971 | 463 | 327 | 358 | 362 | 462 | N | N | N |
| **Water-heating equipment** | | | | | | | | | |
| Centralized system | 3,348 | 520 | 356 | 427 | 435 | 527 | 498 | 424 | 161 |
| Distributed system | 690 | 108 | 78 | 60 | 87 | 139 | 86 | 92 | 39 |
| Combination of centralized and distributed system | 385 | 41 | 26 | 53 | 55 | 61 | 48 | 70 | 30 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | |
| Incandescent | 1,826 | 371 | 196 | 234 | 256 | 281 | 217 | 203 | 69 |
| Standard fluorescent | 4,649 | 660 | 489 | 574 | 588 | 787 | 671 | 632 | 249 |
| Compact fluorescent | 2,302 | 356 | 243 | 268 | 299 | 343 | 342 | 310 | 142 |
| High-intensity discharge | 525 | 54 | 39 | 73 | 66 | 98 | 75 | 90 | 31 |
| Halogen | 905 | 148 | 81 | 101 | 95 | 149 | 123 | 143 | 64 |
| LED | 473 | 67 | 43 | 50 | 52 | 80 | 56 | 74 | 51 |
| Other | 10 | Q | N | Q | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | |
| Any refrigeration | 3,984 | 600 | 433 | 476 | 498 | 626 | 595 | 535 | 220 |
| Walk-in units | 811 | 97 | 71 | 101 | 115 | 132 | 132 | 115 | 48 |
| Cases or cabinets | 915 | 137 | 79 | 109 | 107 | 132 | 156 | 131 | 65 |
| Large cold storage areas | 78 | Q | Q | 9 | 7 | 17 | 14 | 12 | Q |
| Commercial ice makers | 846 | 76 | 75 | 100 | 101 | 147 | 160 | 112 | 74 |
| Residential-type or compact units | 3,388 | 529 | 377 | 410 | 427 | 528 | 481 | 451 | 185 |
| Vending machines | 960 | 70 | 89 | 138 | 135 | 169 | 149 | 148 | 62 |
| No refrigeration | 1,573 | 250 | 166 | 163 | 187 | 289 | 250 | 187 | 83 |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Office equipment (more than one may apply)** | | | | | | | | | |
| Desktop computers | 3,977 | 553 | 400 | 495 | 494 | 675 | 579 | 563 | 219 |
| With flat screen monitors | 3,847 | 517 | 385 | 477 | 481 | 664 | 559 | 549 | 215 |
| With multiple monitors | 911 | 99 | 70 | 104 | 118 | 183 | 125 | 147 | 66 |
| Laptop computers | 2,730 | 381 | 271 | 336 | 349 | 470 | 377 | 394 | 152 |
| Dedicated servers | 1,748 | 202 | 167 | 205 | 233 | 330 | 239 | 267 | 106 |
| Laser printers | 2,339 | 312 | 224 | 297 | 284 | 400 | 350 | 342 | 131 |
| Inkjet printers | 2,187 | 291 | 231 | 278 | 293 | 359 | 341 | 279 | 115 |
| FAX machines | 3,185 | 425 | 324 | 369 | 410 | 579 | 473 | 440 | 164 |
| Photocopiers | 2,163 | 273 | 199 | 268 | 294 | 391 | 312 | 312 | 114 |
| **Number of desktop computers** | | | | | | | | | |
| None | 1,581 | 297 | 200 | 144 | 190 | 240 | 267 | 160 | 84 |
| 1 to 4 | 2,039 | 366 | 227 | 240 | 245 | 317 | 276 | 262 | 106 |
| 5 to 9 | 821 | 99 | 75 | 117 | 107 | 143 | 126 | 108 | 44 |
| 10 to 19 | 482 | 30 | 43 | 64 | 60 | 77 | 86 | 92 | 31 |
| 20 to 49 | 355 | 26 | 25 | 36 | 43 | 87 | 57 | 57 | 24 |
| 50 to 99 | 143 | 19 | 17 | 18 | 22 | 24 | 16 | 21 | Q |
| 100 to 249 | 92 | 10 | 8 | 14 | 11 | 16 | 10 | 16 | 6 |
| 250 or more | 44 | 3 | 4 | 5 | 6 | 10 | 7 | 7 | 3 |
| **Number of laptop computers** | | | | | | | | | |
| None | 2,827 | 469 | 328 | 303 | 335 | 445 | 468 | 328 | 150 |
| 1 to 4 | 1,944 | 309 | 196 | 239 | 252 | 305 | 264 | 268 | 109 |
| 5 to 9 | 350 | 29 | 34 | 44 | 49 | 70 | 54 | 53 | Q |
| 10 to 19 | 181 | 14 | 18 | 16 | 18 | 43 | 24 | 35 | 12 |
| 20 to 49 | 144 | 14 | 13 | 21 | 17 | 33 | 19 | 19 | Q |
| 50 to 99 | 58 | 8 | 6 | 6 | 7 | 11 | 8 | 8 | 4 |
| 100 to 249 | 35 | 5 | 1 | 8 | 3 | 4 | 5 | 7 | Q |
| 250 or more | 20 | 2 | 3 | 1 | 2 | 4 | 3 | 3 | 2 |
| **Number of dedicated servers** | | | | | | | | | |
| None | 3,809 | 648 | 433 | 434 | 451 | 585 | 607 | 455 | 197 |
| 1 to 4 | 1,562 | 186 | 154 | 190 | 209 | 284 | 214 | 233 | 91 |
| 5 to 9 | 97 | 7 | 7 | 8 | 15 | 25 | 11 | 16 | Q |
| 10 to 19 | 50 | 6 | 2 | 5 | 4 | 12 | 8 | 10 | Q |
| 20 to 49 | 25 | Q | Q | 1 | 3 | 7 | 4 | 4 | Q |
| 50 or more | 13 | 1 | 1 | Q | 2 | 2 | 1 | 3 | Q |
| **Number of photocopiers** | | | | | | | | | |
| None | 3,394 | 577 | 401 | 371 | 390 | 524 | 533 | 410 | 189 |
| One | 1,325 | 180 | 143 | 158 | 188 | 228 | 185 | 183 | 61 |
| 2 to 4 | 648 | 72 | 41 | 91 | 84 | 113 | 105 | 102 | 41 |
| 5 to 9 | 116 | 9 | 9 | 10 | 13 | 37 | 12 | 19 | Q |
| 10 or more | 75 | 12 | 5 | 9 | 9 | 14 | 11 | 9 | 6 |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Number of TVs or video displays** | | | | | | | | | |
| None | 2,718 | 453 | 326 | 281 | 334 | 445 | 423 | 318 | 137 |
| One | 1,145 | 177 | 122 | 146 | 141 | 199 | 182 | 136 | 41 |
| 2 to 4 | 1,035 | 144 | 94 | 124 | 123 | 166 | 131 | 173 | 80 |
| 5 to 9 | 314 | 46 | 25 | 40 | 37 | 43 | 55 | 46 | 22 |
| 10 to 19 | 154 | 21 | 16 | 15 | 24 | 30 | 21 | 17 | 10 |
| 20 to 49 | 106 | 6 | 9 | 16 | 13 | 19 | 17 | 18 | 6 |
| 50 to 99 | 48 | Q | 6 | 8 | 6 | 5 | 10 | 8 | Q |
| 100 or more | 37 | 1 | 2 | 8 | 5 | 7 | 6 | 6 | 3 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 153 | 13 | 18 | 19 | 22 | 28 | 25 | 19 | 10 |
| Fast food or small restaurant | 173 | 8 | 9 | 29 | 23 | 29 | 32 | 28 | 15 |
| Cafeteria or large restaurant | 130 | 11 | 17 | 20 | 19 | 17 | 20 | 19 | 6 |
| Commercial kitchen/ food preparation area | 282 | 36 | 32 | 39 | 30 | 38 | 43 | 47 | 18 |
| Small kitchen area | 736 | 154 | 96 | 83 | 90 | 102 | 92 | 89 | 29 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | |
| Data center or server farm | 97 | 6 | 6 | 10 | 15 | 25 | 11 | 16 | 8 |
| Computer-based training room | 244 | 19 | 24 | 25 | 34 | 39 | 33 | 48 | 21 |
| Student or public computer center | 238 | 19 | 27 | 39 | 31 | 44 | 33 | 35 | 11 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | |
| Economizer cycle | 601 | 54 | 62 | 67 | 73 | 84 | 92 | 114 | 54 |
| Regular HVAC maintenance | 3,178 | 398 | 317 | 397 | 391 | 549 | 466 | 467 | 193 |
| Building automation system (BAS)[2] | 781 | 57 | 68 | 108 | 82 | 99 | 114 | 162 | 90 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | |
| Multipaned windows | 3,012 | 389 | 256 | 315 | 362 | 490 | 486 | 497 | 218 |
| Tinted window glass | 1,875 | 172 | 155 | 203 | 260 | 370 | 292 | 305 | 118 |
| Reflective window glass | 549 | 54 | 48 | 52 | 60 | 102 | 80 | 102 | 51 |
| External overhangs or awnings | 1,867 | 251 | 210 | 248 | 249 | 287 | 266 | 246 | 112 |
| Skylights or atriums | 591 | 61 | 37 | 73 | 69 | 139 | 93 | 92 | 27 |
| Light scheduling | 918 | 87 | 78 | 100 | 113 | 150 | 173 | 143 | 74 |
| Occupancy sensors | 813 | 60 | 87 | 82 | 94 | 139 | 98 | 157 | 96 |
| Multi-level lighting or dimming | 349 | 49 | 29 | 30 | 43 | 53 | 42 | 69 | 34 |
| Daylight harvesting | 125 | 18 | 13 | 12 | 12 | 19 | 11 | 22 | 18 |
| Demand responsive lighting | 176 | 21 | 14 | 25 | 28 | 28 | 18 | 28 | Q |
| Building automation system (BAS) for lighting[2] | 208 | 4 | 14 | 18 | 25 | 29 | 40 | 46 | 32 |

## Table B8. Year constructed, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 5,557 | 850 | 599 | 639 | 684 | 915 | 845 | 722 | 303 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | |
| Heating | 3,699 | 573 | 412 | 451 | 473 | 595 | 526 | 453 | 217 |
| Cooling | 3,517 | 508 | 374 | 430 | 457 | 581 | 515 | 463 | 187 |
| Lighting | 4,757 | 733 | 503 | 570 | 598 | 781 | 690 | 625 | 257 |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 1,418 | 918 | 806 | 974 | 1,238 | 1,281 | 1,038 | 369 |
| 5,001 to 10,000 | 8,900 | 1,154 | 793 | 1,149 | 1,069 | 1,655 | 1,461 | 1,038 | 581 |
| 10,001 to 25,000 | 14,105 | 1,924 | 1,328 | 1,773 | 1,862 | 2,430 | 1,871 | 2,003 | 914 |
| 25,001 to 50,000 | 11,917 | 1,407 | 829 | 1,469 | 1,557 | 2,362 | 1,628 | 1,897 | 768 |
| 50,001 to 100,000 | 13,918 | 1,040 | 1,315 | 1,736 | 1,563 | 1,845 | 2,732 | 2,578 | 1,110 |
| 100,001 to 200,000 | 12,415 | 1,162 | 927 | 1,333 | 1,488 | 1,872 | 1,882 | 2,504 | 1,248 |
| 200,001 to 500,000 | 10,724 | 836 | 1,002 | 1,444 | 1,151 | 2,561 | 1,694 | 1,456 | 578 |
| Over 500,000 | 7,074 | 1,069 | 269 | 653 | 1,181 | 1,268 | 1,254 | 1,225 | Q |
| **Principal building activity** | | | | | | | | | |
| Education | 12,239 | 1,382 | 1,447 | 2,180 | 1,178 | 1,268 | 1,655 | 2,327 | 802 |
| Food sales | 1,252 | Q | Q | Q | Q | 157 | 292 | Q | Q |
| Food service | 1,819 | 318 | 183 | 167 | 243 | 306 | 309 | 180 | Q |
| Health care | 4,155 | 197 | 356 | 384 | 867 | 595 | 604 | 608 | 544 |
| Inpatient | 2,374 | Q | 244 | 265 | 681 | 215 | 304 | 311 | 292 |
| Outpatient | 1,781 | Q | Q | 119 | 186 | 380 | 301 | 298 | Q |
| Lodging | 5,826 | 375 | 362 | 761 | 830 | 1,178 | 1,066 | 850 | 403 |
| Mercantile | 11,330 | 639 | 657 | 1,029 | 1,573 | 2,275 | 2,085 | 2,168 | 902 |
| Retail (other than mall) | 5,439 | 632 | 303 | 387 | 534 | 767 | 1,072 | 1,190 | 554 |
| Enclosed and strip malls | 5,890 | Q | 354 | 642 | 1,039 | 1,508 | 1,013 | 978 | Q |
| Office | 15,952 | 2,506 | 1,254 | 1,427 | 2,125 | 3,969 | 2,108 | 1,914 | 649 |
| Public assembly | 5,559 | 1,020 | 521 | 866 | 586 | 599 | 890 | 718 | 360 |
| Public order and safety | 1,440 | Q | Q | Q | Q | Q | 419 | Q | Q |
| Religious worship | 4,557 | 703 | 612 | 704 | 378 | 547 | 651 | 765 | Q |
| Service | 4,630 | 671 | 330 | 520 | 629 | 877 | 775 | 584 | 245 |
| Warehouse and storage | 13,077 | 1,153 | 740 | 1,386 | 1,467 | 2,294 | 2,204 | 2,753 | 1,081 |
| Other | 2,002 | Q | Q | Q | Q | 273 | 280 | 236 | Q |
| Vacant | 3,256 | 680 | 348 | 305 | 454 | 712 | 464 | Q | Q |
| **Census region** | | | | | | | | | |
| Northeast | 15,534 | 3,591 | 1,581 | 2,240 | 1,952 | 1,743 | 2,044 | 1,480 | 903 |
| Midwest | 18,919 | 2,808 | 1,662 | 2,687 | 2,619 | 2,617 | 2,798 | 2,731 | 997 |
| South | 34,279 | 2,485 | 2,634 | 3,499 | 3,693 | 6,942 | 6,172 | 6,154 | 2,701 |
| West | 18,360 | 1,124 | 1,504 | 1,937 | 2,582 | 3,929 | 2,788 | 3,374 | 1,122 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 31,898 | 4,886 | 3,072 | 4,115 | 4,190 | 4,352 | 4,884 | 4,384 | 2,016 |
| Mixed-humid | 27,873 | 3,425 | 2,489 | 3,440 | 3,137 | 4,411 | 4,458 | 4,503 | 2,011 |
| Mixed-dry/Hot-dry | 12,037 | 777 | 1,023 | 1,514 | 1,690 | 2,334 | 1,565 | 2,227 | 908 |
| Hot-humid | 12,831 | 715 | 604 | 974 | 1,598 | 3,397 | 2,553 | 2,266 | 724 |
| Marine | 2,454 | 205 | Q | 318 | 232 | 737 | 344 | 359 | Q |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Number of floors** | | | | | | | | | |
| One | 39,809 | 2,080 | 3,194 | 3,969 | 4,970 | 7,897 | 7,756 | 7,022 | 2,921 |
| Two | 20,206 | 1,716 | 1,926 | 3,192 | 3,000 | 3,135 | 2,866 | 3,234 | 1,137 |
| Three | 8,140 | 2,146 | 642 | 1,070 | 700 | 996 | 827 | 1,091 | 667 |
| Four to nine | 13,535 | 3,079 | 1,404 | 1,364 | 1,332 | 1,899 | 1,708 | 1,879 | 871 |
| Ten or more | 5,404 | 988 | 215 | 767 | 844 | 1,303 | 646 | 512 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | |
| Any elevators | 32,120 | 4,656 | 2,401 | 3,825 | 3,973 | 5,086 | 4,640 | 5,151 | 2,387 |
| Number of elevators | | | | | | | | | |
| One | 11,158 | 1,967 | 974 | 1,438 | 1,226 | 1,117 | 1,624 | 2,062 | 750 |
| Two to five | 12,817 | 1,491 | 1,037 | 1,409 | 1,528 | 2,271 | 1,873 | 1,956 | 1,252 |
| Six or more | 8,145 | 1,198 | 390 | 979 | 1,219 | 1,698 | 1,143 | 1,133 | 385 |
| Any escalators | 3,654 | 738 | Q | 375 | 576 | 722 | 534 | 542 | Q |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 17,751 | 3,338 | 1,890 | 2,109 | 2,100 | 2,678 | 2,546 | 2,138 | 954 |
| 5 to 9 | 8,973 | 1,121 | 723 | 1,185 | 1,175 | 1,443 | 1,252 | 1,332 | 743 |
| 10 to 19 | 9,623 | 844 | 755 | 1,167 | 1,425 | 1,566 | 1,686 | 1,469 | 711 |
| 20 to 49 | 14,514 | 1,067 | 1,043 | 2,016 | 1,706 | 2,771 | 2,460 | 2,426 | 1,026 |
| 50 to 99 | 13,476 | 1,293 | 1,472 | 1,610 | 1,171 | 2,371 | 2,305 | 2,298 | 955 |
| 100 to 249 | 10,941 | 812 | 812 | 1,321 | 1,139 | 1,849 | 1,802 | 2,358 | 849 |
| 250 or more | 11,815 | 1,535 | 686 | 955 | 2,131 | 2,552 | 1,752 | 1,718 | 485 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 8,220 | 1,783 | 962 | 909 | 1,178 | 1,109 | 1,223 | 784 | 272 |
| 40 to 48 | 15,828 | 2,281 | 1,933 | 1,949 | 1,588 | 2,689 | 2,081 | 2,418 | 889 |
| 49 to 60 | 20,529 | 2,113 | 1,550 | 2,353 | 2,393 | 4,379 | 3,263 | 3,216 | 1,263 |
| 61 to 84 | 15,867 | 1,558 | 1,073 | 2,079 | 2,101 | 2,902 | 2,468 | 2,466 | 1,220 |
| 85 to 167 | 9,395 | 913 | 713 | 1,112 | 1,041 | 1,094 | 1,395 | 2,381 | 745 |
| Open continuously | 17,253 | 1,360 | 1,150 | 1,961 | 2,545 | 3,057 | 3,373 | 2,474 | 1,333 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 67,550 | 7,187 | 5,253 | 7,070 | 8,539 | 13,074 | 10,757 | 10,940 | 4,729 |
| Owner occupied | 30,637 | 3,420 | 2,918 | 3,356 | 3,618 | 4,465 | 5,366 | 5,244 | 2,251 |
| Leased to tenant(s) | 26,115 | 2,366 | 1,458 | 2,554 | 3,578 | 5,961 | 4,076 | 4,365 | 1,757 |
| Owner occupied and leased | 8,873 | 1,054 | 628 | 911 | 1,048 | 2,277 | 1,066 | 1,239 | 651 |
| Unoccupied | 1,925 | 348 | 249 | 249 | 295 | Q | Q | Q | Q |
| Government owned | 19,543 | 2,821 | 2,128 | 3,293 | 2,306 | 2,156 | 3,046 | 2,799 | 994 |
| Federal | 1,573 | 588 | Q | Q | Q | Q | 277 | Q | N |
| State | 5,539 | 761 | 679 | 991 | 895 | 580 | 687 | 709 | Q |
| Local | 12,431 | 1,472 | 1,413 | 2,097 | 1,246 | 1,509 | 2,081 | 1,855 | 757 |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | |
| Building owner | 73,702 | 9,118 | 6,553 | 9,223 | 8,822 | 12,135 | 11,688 | 11,412 | 4,750 |
| Business owner or tenant | 11,309 | 708 | 759 | 1,072 | 1,646 | 2,579 | 1,724 | 1,902 | 918 |
| Property management | 1,250 | Q | Q | Q | Q | 358 | Q | Q | Q |
| Other | 832 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | |
| Building owner | 76,271 | 9,171 | 6,724 | 9,414 | 9,381 | 12,909 | 12,020 | 11,719 | 4,934 |
| Business owner or tenant | 8,256 | 557 | 577 | 770 | 1,104 | 1,694 | 1,339 | 1,513 | 702 |
| Property management | 880 | Q | Q | Q | Q | Q | Q | Q | Q |
| Other | 1,686 | Q | Q | Q | 225 | 390 | 317 | 352 | Q |
| **Number of establishments** | | | | | | | | | |
| One | 54,994 | 6,118 | 4,937 | 6,803 | 6,639 | 8,315 | 8,771 | 9,604 | 3,805 |
| 2 to 5 | 17,756 | 2,421 | 1,595 | 2,092 | 2,065 | 3,039 | 2,750 | 2,393 | 1,401 |
| 6 to 10 | 4,425 | 347 | Q | 484 | 604 | 1,092 | 636 | 717 | Q |
| 11 to 20 | 3,704 | Q | Q | 355 | 439 | 1,022 | 710 | 724 | Q |
| More than 20 | 3,821 | 410 | Q | 359 | 704 | 1,363 | 545 | Q | Q |
| Currently unoccupied | 2,393 | 499 | 268 | 269 | 394 | 399 | Q | Q | Q |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 6,133 | 4,429 | 6,273 | 6,164 | 9,696 | 7,956 | 8,163 | 3,461 |
| Primary or secondary school | 4,616 | 522 | 615 | 830 | 580 | 430 | 863 | 591 | Q |
| College or university | 4,068 | 357 | 494 | 981 | 623 | 229 | 380 | 760 | Q |
| Office complex | 3,456 | 371 | Q | Q | 324 | 1,224 | 569 | 513 | Q |
| Retail complex | 5,159 | Q | 275 | 539 | 627 | 1,004 | 934 | 1,070 | Q |
| Storage complex | 3,212 | Q | Q | Q | Q | 538 | 820 | 675 | Q |
| Religious campus or complex | 1,932 | 382 | 257 | 298 | 248 | 241 | Q | 262 | Q |
| Health care complex | 3,362 | Q | 255 | 310 | 891 | 368 | 546 | 405 | 378 |
| Lodging or resort complex | 1,295 | Q | Q | Q | Q | 322 | Q | Q | Q |
| Transportation complex | 554 | Q | Q | Q | Q | Q | Q | Q | Q |
| Government complex | 2,107 | 578 | Q | Q | 236 | 292 | Q | Q | Q |
| Other | 5,057 | 651 | 372 | 472 | 677 | 745 | 892 | 828 | 419 |
| **Predominant exterior wall material** | | | | | | | | | |
| Brick, stone, or stucco | 40,463 | 6,832 | 4,319 | 5,239 | 4,643 | 5,928 | 5,586 | 5,612 | 2,304 |
| Concrete (block or poured) | 20,726 | 1,394 | 2,167 | 3,046 | 3,012 | 4,001 | 2,796 | 2,976 | 1,334 |
| Concrete panels | 8,693 | Q | Q | 551 | 1,203 | 1,987 | 2,011 | 2,026 | 593 |
| Siding or shingles | 5,750 | 1,203 | 341 | 465 | 631 | 955 | 826 | 841 | 487 |
| Metal panels | 8,673 | Q | 294 | 750 | 1,126 | 1,793 | 2,028 | 1,680 | 839 |
| Window glass | 1,340 | N | Q | Q | Q | 333 | Q | 241 | Q |
| Other | 856 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 592 | Q | Q | Q | Q | Q | Q | Q | Q |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Predominant roof material** | | | | | | | | | |
| Metal surfacing | 15,916 | 1,280 | 710 | 982 | 1,720 | 2,523 | 3,593 | 3,447 | 1,662 |
| Synthetic or rubber | 25,817 | 2,963 | 2,362 | 3,522 | 2,976 | 4,113 | 3,641 | 4,013 | 2,226 |
| Built-up | 21,835 | 2,221 | 1,819 | 3,170 | 3,491 | 4,374 | 3,018 | 2,812 | 930 |
| Slate or tile shingles | 4,306 | 981 | 664 | 557 | 335 | 535 | 257 | 828 | 150 |
| Wooden materials (including shingles) | 1,139 | 163 | Q | 197 | 150 | Q | Q | Q | Q |
| Asphalt, fiberglass, or other shingles | 15,104 | 2,013 | 1,486 | 1,634 | 1,699 | 2,875 | 2,621 | 2,152 | 624 |
| Concrete | 1,642 | Q | Q | Q | Q | 298 | 321 | Q | Q |
| Other | 678 | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 657 | Q | Q | Q | Q | Q | Q | Q | N |
| **Roof characteristics** | | | | | | | | | |
| Roof tilt | | | | | | | | | |
| Flat | 49,623 | 4,904 | 4,782 | 7,365 | 7,317 | 9,035 | 6,768 | 6,561 | 2,891 |
| Shallow pitch | 23,853 | 2,596 | 1,304 | 1,965 | 2,490 | 4,284 | 4,223 | 5,130 | 1,861 |
| Steeper pitch | 13,617 | 2,508 | 1,295 | 1,033 | 1,039 | 1,911 | 2,813 | 2,047 | 971 |
| Cool roof | 19,630 | 1,450 | 1,418 | 2,248 | 2,307 | 3,492 | 3,218 | 3,313 | 2,185 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | |
| Any type of renovation | 42,216 | 6,715 | 4,677 | 6,844 | 6,207 | 8,595 | 5,588 | 3,589 | N |
| Addition or annex | 13,022 | 1,268 | 1,728 | 2,291 | 1,949 | 2,128 | 2,314 | 1,343 | N |
| Reduction in floorspace | 1,753 | Q | Q | 255 | 505 | 362 | Q | Q | N |
| Roof replacement | 20,917 | 3,384 | 2,493 | 3,908 | 3,826 | 4,188 | 2,167 | 950 | N |
| Exterior wall replacement | 4,230 | 773 | 674 | 741 | 634 | 517 | 397 | 494 | N |
| Interior wall reconfiguration | 21,340 | 3,454 | 2,204 | 3,254 | 3,361 | 4,456 | 2,420 | 2,192 | N |
| Window replacement | 12,265 | 3,221 | 1,794 | 2,336 | 1,728 | 1,736 | 656 | 793 | N |
| HVAC equipment upgrade | 26,779 | 4,317 | 3,192 | 4,504 | 4,421 | 5,620 | 2,769 | 1,956 | N |
| Lighting upgrade | 25,503 | 4,142 | 3,116 | 4,448 | 3,744 | 5,299 | 2,814 | 1,940 | N |
| Electrical upgrade | 16,160 | 3,372 | 2,347 | 2,940 | 2,265 | 2,516 | 1,382 | 1,339 | N |
| Plumbing system upgrade | 13,828 | 2,903 | 1,662 | 2,473 | 1,881 | 2,259 | 1,262 | 1,387 | N |
| Insulation upgrade | 7,607 | 1,458 | 869 | 1,243 | 1,187 | 1,133 | 749 | 969 | N |
| Fire, safety, or security upgrade | 17,196 | 3,034 | 2,004 | 3,035 | 2,876 | 3,288 | 1,620 | 1,339 | N |
| Structural upgrade | 3,913 | 756 | 307 | 645 | 530 | 562 | 495 | 618 | N |
| Other | 848 | Q | Q | Q | Q | Q | Q | Q | N |
| No renovations | 39,154 | 3,293 | 2,705 | 3,518 | 4,638 | 6,636 | 8,215 | 10,149 | N |
| Buildings constructed 2008 or later | 5,723 | N | N | N | N | N | N | N | 5,723 |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 84,869 | 9,667 | 7,208 | 10,198 | 10,556 | 14,791 | 13,118 | 13,678 | 5,653 |
| Natural gas | 58,725 | 6,112 | 5,393 | 7,553 | 7,979 | 9,887 | 9,162 | 8,819 | 3,821 |
| Fuel oil | 20,200 | 2,546 | 1,530 | 2,407 | 2,614 | 3,806 | 3,201 | 2,964 | 1,133 |
| District heat | 5,964 | 1,428 | 446 | 1,002 | 930 | 449 | 642 | 866 | Q |
| District chilled water | 4,608 | 601 | 203 | 923 | 811 | 310 | 664 | 915 | Q |
| Propane | 7,706 | 585 | 525 | 921 | 880 | 1,214 | 1,339 | 1,682 | 559 |
| Other | 3,826 | 455 | 415 | 490 | 499 | 591 | 572 | 598 | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 49,030 | 4,611 | 3,836 | 5,387 | 5,931 | 9,378 | 7,947 | 8,258 | 3,683 |
| Natural gas | 49,511 | 5,172 | 4,908 | 6,574 | 6,549 | 7,995 | 7,613 | 7,212 | 3,488 |
| Fuel oil | 4,351 | 1,173 | 616 | 695 | 590 | 421 | 370 | 393 | Q |
| District heat | 5,925 | 1,411 | 446 | 1,002 | 930 | 446 | 642 | 856 | Q |
| Propane | 3,067 | 319 | 203 | 388 | 425 | 330 | 539 | 653 | Q |
| Other | 1,010 | 211 | Q | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | |
| Electricity | 26,205 | 1,786 | 1,414 | 2,394 | 2,988 | 5,760 | 4,634 | 5,086 | 2,142 |
| Natural gas | 42,988 | 4,756 | 4,453 | 5,802 | 5,484 | 6,868 | 6,478 | 6,240 | 2,908 |
| Fuel oil | 2,542 | 870 | 378 | 292 | Q | Q | 258 | Q | Q |
| District heat | 5,797 | 1,411 | 439 | 995 | 930 | 441 | 534 | 856 | Q |
| Propane | 1,948 | 199 | Q | Q | 293 | 208 | 425 | 309 | Q |
| Other | 598 | Q | Q | Q | Q | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 76,034 | 7,989 | 6,569 | 8,962 | 9,440 | 13,830 | 11,924 | 12,185 | 5,135 |
| Natural gas | 732 | Q | Q | Q | Q | Q | Q | Q | Q |
| District chilled water | 4,608 | 601 | 203 | 923 | 811 | 310 | 664 | 915 | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 42,755 | 4,215 | 2,829 | 4,423 | 4,854 | 8,845 | 6,946 | 7,791 | 2,852 |
| Natural gas | 39,523 | 3,635 | 3,659 | 5,654 | 5,625 | 6,263 | 6,084 | 5,968 | 2,635 |
| Fuel oil | 1,911 | 471 | 299 | 366 | Q | Q | Q | Q | Q |
| District heat | 4,551 | 1,215 | 287 | 828 | 718 | 200 | 442 | Q | Q |
| Propane | 1,575 | Q | Q | Q | Q | 312 | 334 | 260 | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 25,151 | 2,816 | 1,948 | 2,862 | 2,990 | 4,342 | 4,293 | 4,068 | 1,831 |
| Natural gas | 24,770 | 2,168 | 2,274 | 3,360 | 3,265 | 4,168 | 4,387 | 3,736 | 1,410 |
| Propane | 2,001 | Q | 196 | Q | 262 | 360 | 452 | 266 | Q |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 80,078 | 9,110 | 6,895 | 9,730 | 10,045 | 13,723 | 12,389 | 12,679 | 5,505 |
| Buildings with cooling | 79,294 | 8,302 | 6,679 | 9,634 | 10,031 | 14,011 | 12,402 | 13,010 | 5,225 |
| Buildings with water heating | 79,015 | 8,702 | 6,410 | 9,699 | 10,158 | 13,831 | 12,209 | 12,844 | 5,162 |
| Buildings with cooking | 38,546 | 4,205 | 3,409 | 4,644 | 4,837 | 6,545 | 6,517 | 6,015 | 2,375 |
| Buildings with manufacturing | 5,078 | 670 | 575 | 497 | 828 | 969 | 396 | 856 | Q |
| Buildings with electricity generation | 25,642 | 1,806 | 1,523 | 3,083 | 3,145 | 4,690 | 4,184 | 4,941 | 2,269 |
| **Percent of floorspace heated** | | | | | | | | | |
| Not heated | 7,015 | 898 | 486 | 633 | 800 | 1,507 | 1,414 | 1,060 | 218 |
| 1 to 50 | 10,130 | 1,212 | 927 | 1,094 | 1,378 | 2,091 | 1,417 | 1,463 | 547 |
| 51 to 99 | 14,650 | 2,091 | 1,358 | 1,407 | 1,474 | 2,991 | 2,487 | 2,177 | 664 |
| 100 | 55,298 | 5,807 | 4,610 | 7,228 | 7,193 | 8,641 | 8,485 | 9,040 | 4,294 |
| **Percent of floorspace cooled** | | | | | | | | | |
| Not cooled | 7,799 | 1,707 | 702 | 728 | 815 | 1,220 | 1,401 | 729 | 498 |
| 1 to 50 | 18,891 | 2,563 | 1,748 | 2,711 | 2,400 | 3,285 | 2,445 | 2,714 | 1,026 |
| 51 to 99 | 22,728 | 2,862 | 2,287 | 2,731 | 2,665 | 3,805 | 4,184 | 3,145 | 1,050 |
| 100 | 37,676 | 2,877 | 2,644 | 4,193 | 4,966 | 6,921 | 5,774 | 7,151 | 3,150 |
| **Percent lit when open** | | | | | | | | | |
| Zero | 322 | Q | Q | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 12,628 | 2,162 | 1,351 | 1,266 | 1,313 | 2,222 | 1,395 | 2,065 | 854 |
| 51 to 99 | 34,814 | 3,722 | 3,215 | 4,594 | 4,445 | 6,151 | 4,726 | 5,918 | 2,043 |
| 100 | 35,726 | 3,414 | 2,494 | 4,174 | 4,549 | 6,294 | 6,680 | 5,485 | 2,637 |
| Building never open/electricity not used | 3,603 | 698 | 312 | 312 | 536 | 533 | 954 | Q | Q |
| **Percent lit during off hours** | | | | | | | | | |
| Zero | 24,746 | 3,449 | 2,135 | 2,730 | 2,710 | 4,244 | 3,590 | 3,943 | 1,946 |
| 1 to 50 | 50,753 | 5,454 | 4,510 | 6,228 | 6,516 | 9,083 | 7,752 | 8,076 | 3,134 |
| 51 to 100 | 6,926 | 675 | 479 | 1,111 | 963 | 972 | 1,194 | 1,222 | 310 |
| Building always open with no "off hours" | 2,443 | Q | Q | Q | 367 | 492 | 583 | 438 | Q |
| Electricity not used | 2,225 | 342 | 174 | Q | 290 | 440 | 685 | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | |
| Heat pumps | 11,846 | 1,115 | 907 | 1,295 | 1,198 | 2,386 | 2,136 | 1,982 | 826 |
| Furnaces | 8,654 | 917 | 685 | 1,168 | 1,345 | 1,763 | 1,266 | 1,066 | 442 |
| Individual space heaters | 20,766 | 3,159 | 2,277 | 2,586 | 2,923 | 3,424 | 2,996 | 2,453 | 948 |
| District heat | 5,925 | 1,411 | 446 | 1,002 | 930 | 446 | 642 | 856 | Q |
| Boilers | 22,443 | 3,237 | 2,659 | 3,506 | 2,763 | 2,973 | 2,970 | 3,031 | 1,303 |
| Packaged heating units | 49,188 | 3,968 | 3,715 | 5,670 | 6,156 | 9,037 | 8,544 | 8,356 | 3,741 |
| Other | 1,574 | Q | Q | Q | Q | Q | 397 | Q | Q |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 2,066 | 996 | 2,075 | 2,044 | 2,503 | 2,386 | 1,907 | 786 |
| Heat pumps | 12,538 | 1,108 | 1,097 | 1,300 | 1,330 | 2,556 | 2,214 | 1,995 | 939 |
| Individual air conditioners | 12,420 | 2,493 | 1,485 | 1,740 | 1,649 | 1,768 | 1,425 | 1,358 | 503 |
| District chilled water | 4,608 | 601 | 203 | 923 | 811 | 310 | 664 | 915 | Q |
| Central chillers | 17,041 | 1,774 | 1,755 | 2,052 | 2,371 | 3,210 | 2,276 | 2,433 | 1,169 |
| Packaged air conditioning units | 45,153 | 4,141 | 3,674 | 5,552 | 5,445 | 8,585 | 7,222 | 7,644 | 2,890 |
| Swamp coolers | 1,918 | 181 | Q | 299 | 207 | 267 | 344 | 349 | Q |
| Other | 328 | Q | Q | Q | Q | Q | Q | Q | N |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | |
| Heating | 27,558 | 4,694 | 4,000 | 5,192 | 5,885 | 7,786 | N | N | N |
| Cooling | 30,702 | 5,173 | 4,559 | 5,850 | 6,274 | 8,846 | N | N | N |
| **Water-heating equipment** | | | | | | | | | |
| Centralized system | 47,534 | 5,205 | 4,305 | 6,252 | 6,298 | 7,338 | 7,417 | 7,543 | 3,176 |
| Distributed system | 12,688 | 1,269 | 943 | 1,005 | 1,773 | 2,888 | 1,724 | 2,152 | 933 |
| Combination of centralized and distributed system | 18,793 | 2,228 | 1,162 | 2,442 | 2,087 | 3,605 | 3,069 | 3,148 | 1,053 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | |
| Incandescent | 38,406 | 5,042 | 3,494 | 4,629 | 5,560 | 6,972 | 5,494 | 5,619 | 1,595 |
| Standard fluorescent | 80,081 | 8,752 | 6,860 | 9,857 | 9,992 | 14,263 | 12,267 | 13,019 | 5,070 |
| Compact fluorescent | 53,816 | 6,060 | 4,340 | 6,463 | 6,913 | 9,199 | 8,327 | 8,941 | 3,574 |
| High-intensity discharge | 23,396 | 2,099 | 1,785 | 2,525 | 3,311 | 4,591 | 4,127 | 3,843 | 1,116 |
| Halogen | 28,059 | 3,156 | 2,028 | 2,948 | 3,418 | 5,124 | 4,364 | 5,093 | 1,929 |
| LED | 22,071 | 2,272 | 1,306 | 2,224 | 2,632 | 4,374 | 3,489 | 4,028 | 1,747 |
| Other | 446 | Q | N | Q | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | |
| Any refrigeration | 73,645 | 7,854 | 6,269 | 8,963 | 9,062 | 12,812 | 11,609 | 12,081 | 4,995 |
| Walk-in units | 28,361 | 2,258 | 2,104 | 3,574 | 4,015 | 5,184 | 4,937 | 4,575 | 1,715 |
| Cases or cabinets | 28,719 | 2,759 | 1,869 | 3,183 | 4,079 | 4,816 | 4,817 | 4,856 | 2,340 |
| Large cold storage areas | 4,171 | Q | Q | 387 | 497 | 829 | 688 | 937 | Q |
| Commercial ice makers | 32,734 | 2,336 | 2,350 | 3,650 | 4,044 | 6,287 | 5,983 | 5,644 | 2,441 |
| Residential-type or compact units | 62,381 | 6,572 | 5,336 | 7,745 | 7,772 | 10,950 | 9,498 | 10,132 | 4,376 |
| Vending machines | 43,936 | 3,283 | 3,648 | 5,235 | 5,659 | 8,021 | 7,222 | 7,758 | 3,109 |
| No refrigeration | 13,448 | 2,154 | 1,112 | 1,399 | 1,784 | 2,418 | 2,194 | 1,658 | 728 |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Office equipment (more than one may apply)** | | | | | | | | | |
| Desktop computers | 77,063 | 8,086 | 6,423 | 9,461 | 9,538 | 13,653 | 12,031 | 12,695 | 5,176 |
| With flat screen monitors | 76,160 | 7,893 | 6,329 | 9,299 | 9,404 | 13,558 | 11,934 | 12,584 | 5,159 |
| With multiple monitors | 30,946 | 2,607 | 2,218 | 3,169 | 3,901 | 6,209 | 5,188 | 5,238 | 2,417 |
| Laptop computers | 63,486 | 6,439 | 5,438 | 8,082 | 7,976 | 11,484 | 9,420 | 10,524 | 4,122 |
| Dedicated servers | 53,369 | 4,993 | 4,087 | 6,039 | 6,818 | 10,182 | 8,504 | 9,229 | 3,518 |
| Laser printers | 54,256 | 5,759 | 4,149 | 6,535 | 6,427 | 9,739 | 8,440 | 9,494 | 3,712 |
| Inkjet printers | 36,235 | 3,794 | 3,421 | 4,690 | 4,710 | 6,107 | 5,686 | 5,401 | 2,426 |
| FAX machines | 66,682 | 6,756 | 5,372 | 7,833 | 8,319 | 12,226 | 10,576 | 11,289 | 4,310 |
| Photocopiers | 59,277 | 6,058 | 4,801 | 7,324 | 7,421 | 10,637 | 9,117 | 10,088 | 3,830 |
| **Number of desktop computers** | | | | | | | | | |
| None | 10,030 | 1,922 | 958 | 901 | 1,308 | 1,578 | 1,772 | 1,044 | 547 |
| 1 to 4 | 15,669 | 2,489 | 1,752 | 1,977 | 1,854 | 2,329 | 1,940 | 2,241 | 1,087 |
| 5 to 9 | 9,422 | 792 | 569 | 1,261 | 1,299 | 1,675 | 1,659 | 1,388 | 778 |
| 10 to 19 | 9,388 | 526 | 704 | 1,163 | 1,023 | 1,542 | 1,870 | 2,005 | 556 |
| 20 to 49 | 13,094 | 971 | 882 | 1,362 | 1,428 | 2,839 | 2,253 | 2,122 | 1,237 |
| 50 to 99 | 8,284 | 954 | 844 | 1,000 | 969 | 1,427 | 1,294 | 1,410 | Q |
| 100 to 249 | 9,728 | 1,001 | 826 | 1,260 | 1,197 | 1,491 | 1,161 | 2,207 | 585 |
| 250 or more | 11,478 | 1,354 | 847 | 1,438 | 1,768 | 2,348 | 1,854 | 1,322 | 547 |
| **Number of laptop computers** | | | | | | | | | |
| None | 23,607 | 3,570 | 1,943 | 2,280 | 2,870 | 3,746 | 4,383 | 3,215 | 1,600 |
| 1 to 4 | 21,161 | 2,545 | 1,772 | 2,846 | 2,686 | 3,394 | 2,922 | 3,293 | 1,702 |
| 5 to 9 | 8,345 | 540 | 670 | 1,130 | 1,227 | 1,587 | 1,519 | 1,323 | Q |
| 10 to 19 | 8,343 | 480 | 835 | 687 | 902 | 1,835 | 1,182 | 1,714 | 708 |
| 20 to 49 | 9,643 | 922 | 914 | 1,346 | 1,078 | 1,697 | 1,345 | 1,900 | Q |
| 50 to 99 | 5,234 | 760 | 413 | 591 | 600 | 919 | 702 | 787 | 462 |
| 100 to 249 | 5,217 | 652 | 206 | 1,006 | 646 | 905 | 839 | 819 | Q |
| 250 or more | 5,542 | 539 | 628 | 476 | 837 | 1,146 | 911 | 688 | 317 |
| **Number of dedicated servers** | | | | | | | | | |
| None | 33,724 | 5,015 | 3,295 | 4,324 | 4,028 | 5,049 | 5,299 | 4,510 | 2,205 |
| 1 to 4 | 34,097 | 3,288 | 2,749 | 4,151 | 4,286 | 5,663 | 5,477 | 5,855 | 2,628 |
| 5 to 9 | 6,241 | 401 | 471 | 627 | 920 | 1,346 | 1,025 | 1,149 | Q |
| 10 to 19 | 5,711 | 517 | 455 | 421 | 470 | 1,585 | 1,000 | 1,088 | Q |
| 20 to 49 | 3,758 | Q | Q | 254 | 583 | 1,061 | 600 | 607 | Q |
| 50 or more | 3,562 | 478 | 265 | 586 | 559 | 526 | 403 | 530 | Q |
| **Number of photocopiers** | | | | | | | | | |
| None | 27,816 | 3,951 | 2,580 | 3,038 | 3,425 | 4,593 | 4,686 | 3,651 | 1,892 |
| One | 17,080 | 1,658 | 1,626 | 2,296 | 2,253 | 2,728 | 2,514 | 2,974 | 1,030 |
| 2 to 4 | 20,312 | 1,843 | 1,540 | 2,619 | 2,132 | 3,624 | 3,252 | 3,736 | 1,567 |
| 5 to 9 | 8,863 | 706 | 861 | 936 | 1,033 | 1,771 | 1,385 | 1,611 | Q |
| 10 or more | 13,022 | 1,851 | 774 | 1,473 | 2,003 | 2,514 | 1,966 | 1,767 | 674 |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Number of TVs or video displays** | | | | | | | | | |
| None | 24,339 | 3,652 | 2,294 | 2,825 | 2,798 | 4,300 | 3,699 | 3,122 | 1,648 |
| One | 9,990 | 1,256 | 1,018 | 1,070 | 1,220 | 1,675 | 1,729 | 1,623 | 399 |
| 2 to 4 | 16,465 | 2,034 | 1,269 | 2,089 | 2,087 | 2,475 | 2,073 | 3,147 | 1,291 |
| 5 to 9 | 8,148 | 854 | 798 | 776 | 806 | 1,313 | 1,419 | 1,570 | 613 |
| 10 to 19 | 8,168 | 931 | 582 | 1,010 | 1,257 | 1,665 | 1,340 | 958 | 426 |
| 20 to 49 | 8,058 | 528 | 549 | 983 | 1,044 | 1,592 | 1,441 | 1,306 | 616 |
| 50 to 99 | 4,378 | Q | 492 | 582 | 438 | 613 | 848 | 874 | Q |
| 100 or more | 7,547 | 521 | 379 | 1,029 | 1,197 | 1,597 | 1,255 | 1,139 | 430 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 9,884 | 978 | 592 | 1,291 | 1,305 | 1,775 | 1,547 | 1,738 | 658 |
| Fast food or small restaurant | 9,787 | 672 | 301 | 1,040 | 1,280 | 2,202 | 1,837 | 1,729 | 727 |
| Cafeteria or large restaurant | 15,222 | 1,297 | 1,467 | 1,961 | 2,162 | 2,742 | 2,478 | 2,287 | 828 |
| Commercial kitchen/ food preparation area | 16,150 | 1,525 | 1,356 | 2,113 | 2,198 | 2,621 | 2,426 | 2,861 | 1,049 |
| Small kitchen area | 14,054 | 2,018 | 1,413 | 1,520 | 1,733 | 2,374 | 2,030 | 2,190 | 776 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | |
| Data center or server farm | 11,105 | 911 | 670 | 1,281 | 1,643 | 2,408 | 1,632 | 1,922 | 637 |
| Computer-based training room | 17,723 | 1,762 | 1,429 | 2,025 | 2,254 | 2,465 | 3,228 | 3,354 | 1,208 |
| Student or public computer center | 14,341 | 1,086 | 1,633 | 2,365 | 1,750 | 2,085 | 1,830 | 2,682 | 910 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | |
| Economizer cycle | 30,749 | 2,661 | 2,446 | 3,845 | 3,834 | 5,081 | 5,067 | 5,075 | 2,739 |
| Regular HVAC maintenance | 69,244 | 6,583 | 5,533 | 8,425 | 8,633 | 12,410 | 10,844 | 11,929 | 4,887 |
| Building automation system (BAS)[2] | 37,051 | 2,904 | 2,585 | 4,306 | 4,153 | 6,279 | 6,312 | 7,226 | 3,285 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | |
| Multipaned windows | 60,362 | 5,727 | 4,717 | 6,562 | 6,572 | 10,740 | 10,190 | 11,041 | 4,813 |
| Tinted window glass | 45,025 | 2,966 | 3,151 | 5,045 | 5,890 | 9,467 | 7,535 | 7,954 | 3,016 |
| Reflective window glass | 15,908 | 948 | 1,125 | 1,460 | 1,767 | 3,421 | 2,670 | 3,037 | 1,480 |
| External overhangs or awnings | 32,188 | 2,265 | 2,664 | 4,153 | 4,657 | 5,542 | 5,329 | 5,478 | 2,100 |
| Skylights or atriums | 22,261 | 1,539 | 1,489 | 2,535 | 2,986 | 5,042 | 3,672 | 3,747 | 1,249 |
| Light scheduling | 30,263 | 2,353 | 1,849 | 3,008 | 3,772 | 5,631 | 5,958 | 5,238 | 2,453 |
| Occupancy sensors | 35,871 | 3,288 | 2,629 | 3,827 | 4,170 | 6,317 | 5,716 | 6,825 | 3,098 |
| Multi-level lighting or dimming | 14,534 | 1,077 | 980 | 1,420 | 1,590 | 2,850 | 2,517 | 2,905 | 1,195 |
| Daylight harvesting | 6,114 | 460 | 342 | 629 | 674 | 1,089 | 974 | 1,235 | 710 |
| Demand responsive lighting | 4,738 | 330 | 206 | 464 | 688 | 1,084 | 710 | 901 | Q |
| Building automation system (BAS) for lighting[2] | 12,068 | 531 | 609 | 829 | 1,323 | 2,360 | 2,376 | 2,800 | 1,241 |

## Table B9. Year constructed, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Year constructed | | | | | | | |
| | All buildings | Before 1946 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 | 2000 to 2007 | 2008 to 2012 |
| **All buildings** | 87,093 | 10,008 | 7,381 | 10,362 | 10,846 | 15,230 | 13,803 | 13,739 | 5,723 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | |
| Heating | 63,167 | 7,244 | 5,367 | 7,444 | 7,816 | 11,087 | 9,726 | 10,051 | 4,431 |
| Cooling | 62,516 | 6,737 | 5,120 | 7,164 | 8,045 | 11,139 | 9,711 | 10,399 | 4,203 |
| Lighting | 78,594 | 9,077 | 6,818 | 9,668 | 9,771 | 13,863 | 11,767 | 12,403 | 5,229 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B10. Number of floors, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors |
| **All buildings** | 5,557 | 3,836 | 1,158 | 374 | 177 | 13 | 87,093 | 39,809 | 20,206 | 8,140 | 13,535 | 5,404 |
| **Building floorspace (square feet)** | | | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,195 | 423 | 137 | Q | N | 8,041 | 6,244 | 1,315 | 416 | Q | N |
| 5,001 to 10,000 | 1,229 | 836 | 301 | 74 | Q | N | 8,900 | 6,044 | 2,181 | 536 | Q | N |
| 10,001 to 25,000 | 884 | 519 | 254 | 78 | 32 | N | 14,105 | 8,129 | 4,162 | 1,234 | 581 | N |
| 25,001 to 50,000 | 332 | 161 | 100 | 46 | 24 | Q | 11,917 | 5,761 | 3,584 | 1,655 | 906 | Q |
| 50,001 to 100,000 | 199 | 81 | 54 | 24 | 39 | Q | 13,918 | 5,643 | 3,882 | 1,624 | 2,708 | Q |
| 100,001 to 200,000 | 90 | 32 | 18 | 12 | 26 | 3 | 12,415 | 4,355 | 2,538 | 1,537 | 3,552 | 433 |
| 200,001 to 500,000 | 38 | 10 | 7 | 3 | 12 | 6 | 10,724 | 2,630 | 1,915 | 918 | 3,466 | 1,795 |
| Over 500,000 | 8 | 1 | 1 | Q | 2 | 3 | 7,074 | 1,004 | 630 | Q | 2,116 | 3,104 |
| **Principal building activity** | | | | | | | | | | | | |
| Education | 389 | 266 | 66 | 36 | 19 | Q | 12,239 | 4,419 | 3,765 | 1,967 | 1,987 | Q |
| Food sales | 177 | 140 | 23 | Q | N | N | 1,252 | 949 | 223 | Q | N | N |
| Food service | 380 | 284 | 60 | 29 | Q | N | 1,819 | 1,205 | 388 | 162 | Q | N |
| Health care | 157 | 92 | 48 | 10 | 7 | 1 | 4,155 | 740 | 662 | 400 | 1,780 | 574 |
| Inpatient | 10 | Q | Q | 1 | 4 | 1 | 2,374 | Q | Q | 104 | 1,486 | 534 |
| Outpatient | 147 | 89 | 46 | Q | 2 | Q | 1,781 | 627 | 523 | Q | 294 | Q |
| Lodging | 158 | 49 | 53 | 23 | 30 | 3 | 5,826 | 697 | 912 | 817 | 2,194 | 1,206 |
| Mercantile | 602 | 441 | 116 | 32 | Q | Q | 11,330 | 8,616 | 1,986 | 349 | Q | Q |
| Retail (other than mall) | 438 | 303 | 91 | 32 | Q | Q | 5,439 | 3,951 | 991 | 279 | Q | Q |
| Enclosed and strip malls | 164 | 138 | 26 | Q | Q | Q | 5,890 | 4,665 | 995 | Q | Q | Q |
| Office | 1,012 | 554 | 277 | 118 | 56 | 7 | 15,952 | 3,644 | 3,577 | 1,877 | 3,949 | 2,904 |
| Public assembly | 352 | 223 | 87 | 24 | 18 | Q | 5,559 | 2,097 | 1,209 | 594 | 1,605 | Q |
| Public order and safety | 84 | 59 | 17 | Q | Q | Q | 1,440 | 509 | 293 | Q | Q | Q |
| Religious worship | 412 | 261 | 125 | 21 | Q | N | 4,557 | 1,916 | 2,030 | 426 | Q | N |
| Service | 619 | 495 | 94 | 24 | Q | Q | 4,630 | 2,996 | 1,157 | 236 | Q | Q |
| Warehouse and storage | 796 | 661 | 114 | 15 | Q | N | 13,077 | 9,153 | 2,925 | 683 | Q | N |
| Other | 125 | 94 | 24 | Q | Q | Q | 2,002 | 1,086 | 407 | Q | Q | Q |
| Vacant | 296 | 217 | 50 | Q | 8 | Q | 3,256 | 1,782 | 672 | Q | 544 | Q |
| **Year constructed** | | | | | | | | | | | | |
| Before 1920 | 362 | 77 | 126 | 106 | 51 | Q | 3,983 | 530 | 856 | 902 | 1,552 | Q |
| 1920 to 1945 | 488 | 240 | 125 | 91 | 29 | 2 | 6,025 | 1,550 | 860 | 1,244 | 1,527 | 845 |
| 1946 to 1959 | 599 | 419 | 130 | 32 | 18 | 1 | 7,381 | 3,194 | 1,926 | 642 | 1,404 | 215 |
| 1960 to 1969 | 639 | 423 | 170 | 27 | 18 | 2 | 10,362 | 3,969 | 3,192 | 1,070 | 1,364 | 767 |
| 1970 to 1979 | 684 | 515 | 136 | 20 | 11 | 2 | 10,846 | 4,970 | 3,000 | 700 | 1,332 | 844 |
| 1980 to 1989 | 915 | 699 | 171 | 27 | 15 | 3 | 15,230 | 7,897 | 3,135 | 996 | 1,899 | 1,303 |
| 1990 to 1999 | 845 | 690 | 109 | 31 | 13 | 1 | 13,803 | 7,756 | 2,866 | 827 | 1,708 | 646 |
| 2000 to 2003 | 375 | 280 | 76 | 14 | 5 | Q | 7,215 | 3,517 | 1,734 | 656 | 1,150 | Q |
| 2004 to 2007 | 347 | 258 | 74 | 10 | 5 | Q | 6,524 | 3,505 | 1,500 | 436 | 729 | Q |
| 2008 to 2012 | 303 | 235 | 41 | 15 | 11 | Q | 5,723 | 2,921 | 1,137 | 667 | 871 | Q |
| **Census region** | | | | | | | | | | | | |
| Northeast | 805 | 360 | 236 | 147 | 60 | 4 | 15,534 | 3,865 | 4,098 | 2,421 | 3,409 | 1,742 |
| Midwest | 1,237 | 785 | 296 | 121 | 33 | 2 | 18,919 | 7,652 | 4,867 | 2,607 | 2,915 | 879 |
| South | 2,247 | 1,737 | 377 | 63 | 64 | 5 | 34,279 | 18,532 | 6,972 | 2,028 | 5,013 | 1,734 |
| West | 1,267 | 954 | 248 | 43 | 21 | 2 | 18,360 | 9,760 | 4,269 | 1,083 | 2,198 | 1,049 |

## Table B10. Number of floors, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors |
| **All buildings** | 5,557 | 3,836 | 1,158 | 374 | 177 | 13 | 87,093 | 39,809 | 20,206 | 8,140 | 13,535 | 5,404 |
| **Climate region[1]** | | | | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,200 | 523 | 227 | 76 | 4 | 31,898 | 12,175 | 8,343 | 4,460 | 5,340 | 1,580 |
| Mixed-humid | 1,743 | 1,222 | 339 | 106 | 70 | 6 | 27,873 | 12,382 | 6,124 | 2,292 | 4,616 | 2,459 |
| Mixed-dry/Hot-dry | 837 | 664 | 134 | 23 | 16 | 1 | 12,037 | 6,815 | 2,492 | 697 | 1,577 | 455 |
| Hot-humid | 799 | 646 | 128 | 11 | 12 | 2 | 12,831 | 7,485 | 2,556 | 527 | 1,581 | 682 |
| Marine | 147 | 103 | 34 | Q | 3 | Q | 2,454 | 952 | 690 | Q | 420 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | | | | |
| Any elevators | 405 | N | 167 | 105 | 121 | 13 | 32,120 | N | 8,548 | 5,654 | 12,514 | 5,404 |
| Number of elevators | | | | | | | | | | | | |
| One | 272 | N | 144 | 75 | 53 | Q | 11,158 | N | 6,069 | 2,771 | 2,305 | Q |
| Two to five | 118 | N | 22 | 29 | 61 | 5 | 12,817 | N | 2,335 | 2,579 | 7,010 | 893 |
| Six or more | 16 | N | Q | 1 | 7 | 8 | 8,145 | N | Q | 304 | 3,199 | 4,498 |
| Any escalators | 10 | N | Q | Q | 4 | 2 | 3,654 | N | 333 | Q | 1,372 | 1,813 |
| **Number of workers (main shift)** | | | | | | | | | | | | |
| Fewer than 5 | 2,892 | 2,191 | 494 | 164 | 42 | Q | 17,751 | 11,548 | 3,555 | 1,547 | 1,002 | Q |
| 5 to 9 | 1,085 | 767 | 220 | 77 | 21 | Q | 8,973 | 5,638 | 2,234 | 715 | 379 | Q |
| 10 to 19 | 731 | 475 | 197 | 42 | 16 | Q | 9,623 | 5,709 | 2,560 | 710 | 597 | Q |
| 20 to 49 | 513 | 282 | 152 | 55 | 24 | Q | 14,514 | 6,907 | 4,279 | 1,764 | 1,442 | Q |
| 50 to 99 | 206 | 87 | 65 | 21 | 31 | 1 | 13,476 | 5,841 | 3,670 | 1,372 | 2,290 | 303 |
| 100 to 249 | 93 | 31 | 24 | 11 | 27 | 2 | 10,941 | 3,289 | 2,711 | 1,240 | 3,289 | 412 |
| 250 or more | 37 | 3 | 6 | 4 | 15 | 8 | 11,815 | 876 | 1,196 | 792 | 4,535 | 4,415 |
| **Weekly operating hours** | | | | | | | | | | | | |
| Fewer than 40 | 1,149 | 846 | 229 | 58 | 16 | Q | 8,220 | 4,998 | 1,974 | 587 | 617 | Q |
| 40 to 48 | 1,346 | 933 | 284 | 95 | 34 | Q | 15,828 | 8,264 | 4,018 | 1,479 | 1,836 | Q |
| 49 to 60 | 1,244 | 830 | 295 | 69 | 45 | 4 | 20,529 | 9,541 | 5,074 | 1,806 | 2,783 | 1,326 |
| 61 to 84 | 764 | 510 | 160 | 67 | 26 | 2 | 15,867 | 7,516 | 4,016 | 1,669 | 1,711 | 955 |
| 85 to 167 | 479 | 355 | 80 | 33 | 11 | Q | 9,395 | 4,788 | 2,281 | 970 | 1,296 | Q |
| Open continuously | 575 | 363 | 110 | 52 | 45 | 6 | 17,253 | 4,702 | 2,844 | 1,629 | 5,291 | 2,788 |
| **Ownership and occupancy** | | | | | | | | | | | | |
| Nongovernment owned | 4,781 | 3,290 | 1,010 | 328 | 142 | 11 | 67,550 | 32,751 | 15,005 | 5,929 | 9,454 | 4,410 |
| Owner occupied | 2,466 | 1,651 | 552 | 191 | 70 | 2 | 30,637 | 13,707 | 7,954 | 3,564 | 4,439 | 973 |
| Leased to tenant(s) | 1,745 | 1,288 | 321 | 84 | 46 | 5 | 26,115 | 14,937 | 4,864 | 1,284 | 2,830 | 2,199 |
| Owner occupied and leased | 349 | 183 | 98 | 42 | 23 | 3 | 8,873 | 2,885 | 1,805 | 975 | 2,015 | 1,193 |
| Unoccupied | 221 | 169 | 38 | Q | Q | Q | 1,925 | 1,221 | 382 | Q | Q | Q |
| Government owned | 776 | 546 | 148 | 46 | 35 | 2 | 19,543 | 7,058 | 5,201 | 2,210 | 4,081 | 993 |
| Federal | 33 | 21 | Q | Q | 1 | 1 | 1,573 | 323 | Q | Q | 469 | 496 |
| State | 185 | 112 | 48 | 10 | 14 | 1 | 5,539 | 1,530 | 1,682 | 655 | 1,473 | 199 |
| Local | 558 | 413 | 90 | 35 | 20 | Q | 12,431 | 5,205 | 3,336 | 1,454 | 2,139 | Q |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | | | |
| Building owner | 4,715 | 3,223 | 992 | 329 | 159 | 12 | 73,702 | 31,061 | 17,556 | 7,461 | 12,524 | 5,099 |
| Business owner or tenant | 724 | 537 | 137 | 38 | 12 | Q | 11,309 | 7,944 | 2,193 | 507 | 612 | Q |
| Property management | 54 | 41 | 8 | Q | Q | Q | 1,250 | 438 | 176 | Q | Q | Q |
| Other | 64 | 35 | Q | Q | Q | Q | 832 | 366 | Q | Q | Q | Q |

## Table B10. Number of floors, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors |
| **All buildings** | 5,557 | 3,836 | 1,158 | 374 | 177 | 13 | 87,093 | 39,809 | 20,206 | 8,140 | 13,535 | 5,404 |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | | | |
| Building owner | 4,876 | 3,347 | 1,013 | 343 | 161 | 12 | 76,271 | 32,776 | 18,070 | 7,744 | 12,529 | 5,151 |
| Business owner or tenant | 540 | 394 | 114 | 22 | 10 | Q | 8,256 | 5,688 | 1,655 | 250 | 610 | Q |
| Property management | 35 | 26 | Q | Q | Q | Q | 880 | 378 | Q | Q | Q | Q |
| Other | 106 | 70 | 26 | Q | Q | Q | 1,686 | 967 | 360 | Q | Q | Q |
| **Number of establishments** | | | | | | | | | | | | |
| One | 4,205 | 2,997 | 833 | 259 | 112 | 4 | 54,994 | 25,686 | 14,210 | 5,591 | 7,895 | 1,613 |
| 2 to 5 | 862 | 510 | 224 | 87 | 39 | 3 | 17,756 | 7,605 | 3,755 | 1,810 | 3,323 | 1,263 |
| 6 to 10 | 147 | 87 | 38 | 10 | 10 | 1 | 4,425 | 2,016 | 891 | 254 | 746 | 518 |
| 11 to 20 | 68 | 39 | 16 | Q | 6 | 2 | 3,704 | 1,851 | 467 | Q | 532 | 638 |
| More than 20 | 27 | 17 | 2 | Q | 4 | 3 | 3,821 | 1,183 | 439 | Q | 720 | 1,327 |
| Currently unoccupied | 248 | 186 | 45 | Q | Q | Q | 2,393 | 1,470 | 444 | Q | Q | Q |
| **Campus or complex activity** | | | | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 2,470 | 817 | 272 | 116 | 8 | 52,275 | 24,692 | 13,112 | 4,929 | 6,580 | 2,961 |
| Primary or secondary school | 237 | 196 | 31 | 8 | Q | N | 4,616 | 2,284 | 1,374 | 553 | Q | N |
| College or university | 84 | 25 | 18 | 17 | 23 | Q | 4,068 | 359 | 640 | 653 | 2,125 | Q |
| Office complex | 154 | 82 | 53 | 12 | 6 | 1 | 3,456 | 830 | 745 | 347 | 809 | 725 |
| Retail complex | 258 | 208 | 40 | Q | Q | Q | 5,159 | 4,061 | 889 | Q | Q | Q |
| Storage complex | 314 | 288 | 20 | Q | Q | N | 3,212 | 2,468 | 404 | Q | Q | N |
| Religious campus or complex | 197 | 119 | 61 | 13 | Q | Q | 1,932 | 749 | 831 | 239 | Q | Q |
| Health care complex | 52 | 28 | 11 | 5 | 8 | 1 | 3,362 | 319 | Q | 341 | 1,727 | 556 |
| Lodging or resort complex | 65 | 36 | 24 | Q | Q | Q | 1,295 | 210 | 334 | Q | Q | Q |
| Transportation complex | 35 | 27 | Q | Q | Q | Q | 554 | 275 | Q | Q | Q | Q |
| Government complex | 104 | 71 | 23 | Q | 3 | Q | 2,107 | 523 | 461 | Q | 476 | Q |
| Other | 371 | 287 | 58 | 19 | 8 | Q | 5,057 | 3,040 | 893 | 360 | 682 | Q |
| **Predominant exterior wall material** | | | | | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 1,438 | 542 | 211 | 117 | 5 | 40,463 | 15,139 | 9,534 | 5,280 | 8,553 | 1,957 |
| Concrete (block or poured) | 1,121 | 812 | 244 | 39 | 24 | 3 | 20,726 | 10,766 | 5,215 | 1,280 | 2,263 | 1,202 |
| Concrete panels | 210 | 148 | 40 | 9 | 10 | 3 | 8,693 | 3,781 | 1,753 | 423 | 1,563 | 1,173 |
| Siding or shingles | 905 | 570 | 215 | 97 | 22 | Q | 5,750 | 2,938 | 1,610 | 708 | 400 | Q |
| Metal panels | 933 | 824 | 98 | Q | Q | Q | 8,673 | 6,511 | 1,696 | Q | Q | Q |
| Window glass | 17 | Q | Q | Q | 2 | 1 | 1,340 | Q | Q | Q | 396 | 590 |
| Other | 37 | 26 | Q | Q | Q | Q | 856 | 353 | Q | Q | Q | Q |
| No one major type | 21 | Q | Q | Q | Q | Q | 592 | Q | Q | Q | Q | Q |
| **Predominant roof material** | | | | | | | | | | | | |
| Metal surfacing | 1,672 | 1,377 | 249 | 36 | 10 | Q | 15,916 | 11,145 | 3,198 | 560 | 757 | Q |
| Synthetic or rubber | 911 | 516 | 235 | 103 | 51 | 5 | 25,817 | 9,289 | 6,314 | 3,137 | 4,914 | 2,163 |
| Built-up | 836 | 576 | 159 | 47 | 49 | 5 | 21,835 | 8,821 | 4,922 | 1,783 | 4,230 | 2,078 |
| Slate or tile shingles | 406 | 261 | 92 | 33 | 20 | Q | 4,306 | 1,361 | 1,140 | 479 | 1,284 | Q |
| Wooden materials (including shingles) | 157 | 122 | 21 | Q | Q | N | 1,139 | 742 | 216 | Q | Q | N |
| Asphalt, fiberglass, or other shingles | 1,483 | 931 | 381 | 134 | 36 | 1 | 15,104 | 7,404 | 3,882 | 1,888 | 1,386 | 544 |
| Concrete | 51 | 34 | Q | Q | 5 | 1 | 1,642 | 530 | Q | Q | 461 | 278 |
| Other | 24 | Q | Q | Q | Q | Q | 678 | Q | Q | Q | Q | Q |
| No one major type | 18 | Q | Q | Q | Q | Q | 657 | Q | Q | Q | Q | Q |

## Table B10. Number of floors, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors |
| **All buildings** | 5,557 | 3,836 | 1,158 | 374 | 177 | 13 | 87,093 | 39,809 | 20,206 | 8,140 | 13,535 | 5,404 |
| **Roof characteristics** | | | | | | | | | | | | |
| Roof tilt | | | | | | | | | | | | |
| Flat | 1,960 | 1,298 | 415 | 137 | 99 | 11 | 49,623 | 18,851 | 11,361 | 4,942 | 9,767 | 4,702 |
| Shallow pitch | 2,148 | 1,653 | 383 | 83 | 28 | Q | 23,853 | 14,813 | 5,271 | 1,295 | 2,000 | Q |
| Steeper pitch | 1,449 | 885 | 359 | 154 | 50 | Q | 13,617 | 6,145 | 3,574 | 1,903 | 1,767 | Q |
| Cool roof | 740 | 505 | 154 | 48 | 29 | 4 | 19,630 | 8,205 | 4,406 | 1,560 | 3,563 | 1,897 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | | | |
| Any type of renovation | 2,094 | 1,250 | 552 | 195 | 88 | 9 | 42,216 | 15,663 | 10,408 | 4,547 | 7,555 | 4,043 |
| Addition or annex | 444 | 241 | 145 | 34 | 23 | 1 | 13,022 | 4,081 | 3,879 | 1,423 | 2,755 | 885 |
| Reduction in floorspace | 71 | 43 | 20 | Q | 1 | 1 | 1,753 | 589 | 512 | Q | 303 | 212 |
| Roof replacement | 987 | 574 | 267 | 100 | 42 | 5 | 20,917 | 6,744 | 5,453 | 2,494 | 3,900 | 2,325 |
| Exterior wall replacement | 194 | 111 | 48 | 28 | 7 | 1 | 4,230 | 1,196 | 1,285 | 617 | 684 | 448 |
| Interior wall reconfiguration | 889 | 506 | 245 | 86 | 48 | 5 | 21,340 | 6,684 | 4,805 | 2,416 | 4,831 | 2,605 |
| Window replacement | 560 | 271 | 162 | 88 | 37 | 3 | 12,265 | 3,516 | 2,927 | 1,554 | 2,823 | 1,444 |
| HVAC equipment upgrade | 1,101 | 594 | 322 | 118 | 60 | 6 | 26,779 | 8,828 | 6,588 | 2,933 | 5,258 | 3,173 |
| Lighting upgrade | 982 | 530 | 282 | 112 | 52 | 6 | 25,503 | 8,495 | 5,544 | 2,885 | 5,359 | 3,219 |
| Electrical upgrade | 747 | 392 | 222 | 86 | 43 | 4 | 16,160 | 5,230 | 3,764 | 1,741 | 3,553 | 1,872 |
| Plumbing system upgrade | 644 | 329 | 197 | 77 | 38 | 4 | 13,828 | 4,059 | 3,336 | 1,585 | 2,862 | 1,987 |
| Insulation upgrade | 382 | 188 | 110 | 60 | 22 | 1 | 7,607 | 2,404 | 1,840 | 996 | 1,620 | 748 |
| Fire, safety, or security upgrade | 616 | 289 | 198 | 78 | 45 | 6 | 17,196 | 4,263 | 4,022 | 2,060 | 4,297 | 2,554 |
| Structural upgrade | 152 | 65 | 47 | 30 | 8 | 1 | 3,913 | 1,041 | 966 | 525 | 809 | 573 |
| Other | 39 | Q | Q | Q | Q | Q | 848 | Q | Q | Q | Q | Q |
| No renovations | 3,160 | 2,351 | 564 | 164 | 78 | 4 | 39,154 | 21,225 | 8,661 | 2,926 | 5,109 | 1,233 |
| Buildings constructed 2008 or later | 303 | 235 | 41 | 15 | 11 | Q | 5,723 | 2,921 | 1,137 | 667 | 871 | Q |
| **Energy sources (more than one may apply)** | | | | | | | | | | | | |
| Electricity | 5,234 | 3,555 | 1,128 | 365 | 175 | 12 | 84,869 | 38,053 | 19,928 | 8,102 | 13,417 | 5,368 |
| Natural gas | 2,933 | 1,832 | 723 | 245 | 124 | 8 | 58,725 | 24,497 | 14,665 | 6,084 | 9,764 | 3,715 |
| Fuel oil | 467 | 256 | 105 | 58 | 38 | 9 | 20,200 | 4,139 | 3,375 | 2,091 | 6,246 | 4,349 |
| District heat | 48 | Q | 11 | 10 | 18 | 3 | 5,964 | Q | Q | 544 | 2,830 | 1,900 |
| District chilled water | 54 | 17 | 13 | 8 | 15 | 1 | 4,608 | 219 | 578 | 404 | 2,523 | 883 |
| Propane | 510 | 351 | 110 | 38 | 11 | Q | 7,706 | 3,938 | 2,000 | 642 | 801 | Q |
| Other | 172 | 96 | 46 | 25 | 4 | Q | 3,826 | 1,364 | 1,217 | 463 | 600 | Q |
| **Energy end uses (more than one may apply)** | | | | | | | | | | | | |
| Buildings with space heating | 4,722 | 3,113 | 1,072 | 355 | 170 | 12 | 80,078 | 34,513 | 19,411 | 7,896 | 12,992 | 5,265 |
| Buildings with cooling | 4,461 | 2,954 | 994 | 338 | 163 | 12 | 79,294 | 34,156 | 19,012 | 7,734 | 13,036 | 5,356 |
| Buildings with water heating | 4,423 | 2,862 | 1,039 | 344 | 166 | 12 | 79,015 | 33,591 | 19,088 | 7,932 | 13,141 | 5,264 |
| Buildings with cooking | 1,589 | 977 | 385 | 137 | 82 | 8 | 38,546 | 13,994 | 9,154 | 3,816 | 7,519 | 4,064 |
| Buildings with manufacturing | 259 | 168 | 64 | 19 | 7 | Q | 5,078 | 2,825 | 1,409 | 433 | 298 | Q |
| Buildings with electricity generation | 410 | 216 | 100 | 45 | 40 | 9 | 25,642 | 6,187 | 5,134 | 2,584 | 7,344 | 4,393 |
| **Percent of floorspace heated** | | | | | | | | | | | | |
| Not heated | 835 | 723 | 86 | Q | 6 | Q | 7,015 | 5,296 | 795 | Q | 543 | Q |
| 1 to 50 | 697 | 489 | 151 | 42 | 15 | Q | 10,130 | 5,882 | 2,788 | 583 | 690 | Q |
| 51 to 99 | 727 | 418 | 170 | 93 | 42 | 4 | 14,650 | 5,845 | 2,862 | 1,500 | 2,606 | 1,836 |
| 100 | 3,298 | 2,206 | 750 | 220 | 114 | 8 | 55,298 | 22,786 | 13,761 | 5,812 | 9,697 | 3,242 |

## Table B10. Number of floors, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors |
| **All buildings** | 5,557 | 3,836 | 1,158 | 374 | 177 | 13 | 87,093 | 39,809 | 20,206 | 8,140 | 13,535 | 5,404 |
| **Percent of floorspace cooled** | | | | | | | | | | | | |
| Not cooled | 1,096 | 882 | 164 | 36 | 14 | Q | 7,799 | 5,653 | 1,194 | 405 | 499 | Q |
| 1 to 50 | 1,173 | 782 | 275 | 85 | 30 | Q | 18,891 | 10,371 | 5,511 | 1,378 | 1,426 | Q |
| 51 to 99 | 897 | 482 | 227 | 121 | 61 | 6 | 22,728 | 7,750 | 4,834 | 2,590 | 4,713 | 2,840 |
| 100 | 2,391 | 1,690 | 492 | 132 | 72 | 5 | 37,676 | 16,035 | 8,666 | 3,766 | 6,896 | 2,313 |
| **Percent lit when open** | | | | | | | | | | | | |
| Zero | 70 | 64 | Q | Q | Q | N | 322 | 288 | Q | Q | Q | N |
| 1 to 50 | 1,099 | 647 | 301 | 110 | 41 | Q | 12,628 | 5,680 | 3,641 | 1,600 | 1,571 | Q |
| 51 to 99 | 1,666 | 1,042 | 399 | 144 | 74 | 7 | 34,814 | 14,604 | 7,751 | 3,465 | 6,414 | 2,579 |
| 100 | 2,222 | 1,675 | 386 | 99 | 56 | 5 | 35,726 | 16,711 | 8,271 | 2,918 | 5,181 | 2,644 |
| Building never open/electricity not used | 501 | 408 | 68 | Q | Q | Q | 3,603 | 2,526 | 537 | Q | Q | Q |
| **Percent lit during off hours** | | | | | | | | | | | | |
| Zero | 2,489 | 1,794 | 512 | 145 | 37 | 1 | 24,746 | 14,152 | 6,327 | 2,230 | 1,788 | 249 |
| 1 to 50 | 2,441 | 1,545 | 565 | 201 | 121 | 9 | 50,753 | 20,673 | 12,052 | 5,255 | 9,034 | 3,740 |
| 51 to 100 | 202 | 131 | 41 | 15 | 13 | 2 | 6,926 | 1,848 | 1,234 | 518 | 2,118 | 1,208 |
| Building always open with no "off hours" | 102 | 85 | 10 | Q | 3 | (*) | 2,443 | 1,380 | 316 | Q | 477 | 171 |
| Electricity not used | 323 | 282 | 30 | Q | Q | Q | 2,225 | 1,756 | 278 | Q | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | | | | |
| Heat pumps | 628 | 415 | 146 | 37 | 28 | 3 | 11,846 | 4,642 | 2,844 | 1,229 | 2,089 | 1,041 |
| Furnaces | 755 | 471 | 203 | 61 | 21 | Q | 8,654 | 4,356 | 2,518 | 857 | 826 | Q |
| Individual space heaters | 1,247 | 818 | 274 | 106 | 46 | 3 | 20,766 | 8,857 | 4,987 | 2,150 | 3,398 | 1,374 |
| District heat | 48 | Q | 11 | 10 | 18 | 3 | 5,925 | Q | Q | 544 | 2,791 | 1,900 |
| Boilers | 544 | 184 | 164 | 119 | 71 | 6 | 22,443 | 4,257 | 5,762 | 3,667 | 6,521 | 2,236 |
| Packaged heating units | 2,802 | 1,904 | 655 | 168 | 71 | 4 | 49,188 | 24,999 | 13,422 | 3,918 | 5,180 | 1,669 |
| Other | 62 | 42 | 14 | Q | Q | Q | 1,574 | 1,127 | 297 | Q | Q | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 1,027 | 370 | 120 | 29 | Q | 14,765 | 8,638 | 4,035 | 1,185 | 816 | Q |
| Heat pumps | 692 | 465 | 162 | 35 | 29 | 2 | 12,538 | 5,319 | 3,056 | 1,155 | 2,029 | 979 |
| Individual air conditioners | 709 | 394 | 163 | 105 | 44 | 3 | 12,420 | 3,436 | 3,034 | 1,960 | 2,851 | 1,138 |
| District chilled water | 54 | 17 | 13 | 8 | 15 | 1 | 4,608 | 219 | 578 | 404 | 2,523 | 883 |
| Central chillers | 163 | 48 | 40 | 27 | 39 | 8 | 17,041 | 2,072 | 3,075 | 2,116 | 5,873 | 3,905 |
| Packaged air conditioning units | 1,909 | 1,301 | 419 | 115 | 69 | 6 | 45,153 | 21,523 | 11,281 | 3,795 | 6,087 | 2,466 |
| Swamp coolers | 109 | 89 | 13 | Q | Q | Q | 1,918 | 1,161 | 357 | Q | Q | Q |
| Other | Q | Q | Q | Q | Q | Q | 328 | Q | Q | Q | Q | Q |
| **Water-heating equipment** | | | | | | | | | | | | |
| Centralized system | 3,348 | 2,179 | 786 | 259 | 118 | 6 | 47,534 | 20,177 | 11,762 | 5,148 | 7,998 | 2,450 |
| Distributed system | 690 | 451 | 156 | 58 | 23 | 2 | 12,688 | 6,094 | 3,133 | 1,181 | 1,646 | 635 |
| Combination of centralized and distributed system | 385 | 231 | 97 | 26 | 26 | 5 | 18,793 | 7,321 | 4,194 | 1,602 | 3,497 | 2,179 |

## Table B10. Number of floors, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors | All buildings | One floor | Two floors | Three floors | Four to nine floors | Ten or more floors |
| **All buildings** | 5,557 | 3,836 | 1,158 | 374 | 177 | 13 | 87,093 | 39,809 | 20,206 | 8,140 | 13,535 | 5,404 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | | | |
| Incandescent | 1,826 | 1,071 | 474 | 171 | 104 | 7 | 38,406 | 13,966 | 9,208 | 3,886 | 7,842 | 3,504 |
| Standard fluorescent | 4,649 | 3,120 | 1,022 | 329 | 166 | 12 | 80,081 | 34,818 | 19,068 | 7,767 | 13,083 | 5,344 |
| Compact fluorescent | 2,302 | 1,372 | 577 | 210 | 132 | 12 | 53,816 | 18,664 | 12,629 | 5,761 | 11,610 | 5,152 |
| High-intensity discharge | 525 | 326 | 130 | 37 | 28 | 5 | 23,396 | 8,474 | 5,326 | 2,239 | 4,469 | 2,888 |
| Halogen | 905 | 506 | 245 | 85 | 62 | 7 | 28,059 | 9,952 | 5,781 | 2,789 | 6,053 | 3,484 |
| LED | 473 | 261 | 113 | 48 | 45 | 7 | 22,071 | 6,930 | 3,905 | 1,950 | 5,642 | 3,645 |
| Other | 10 | Q | Q | Q | Q | Q | 446 | Q | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | | | | |
| Any refrigeration | 3,984 | 2,602 | 915 | 301 | 154 | 12 | 73,645 | 31,001 | 17,915 | 7,152 | 12,368 | 5,209 |
| Walk-in units | 811 | 553 | 151 | 59 | 43 | 6 | 28,361 | 10,649 | 6,100 | 2,393 | 5,897 | 3,322 |
| Cases or cabinets | 915 | 605 | 182 | 77 | 44 | 7 | 28,719 | 10,961 | 5,918 | 2,625 | 5,730 | 3,485 |
| Large cold storage areas | 78 | 50 | 20 | Q | 4 | (*) | 4,171 | 1,931 | 942 | Q | 751 | 348 |
| Commercial ice makers | 846 | 541 | 183 | 60 | 54 | 7 | 32,734 | 11,581 | 6,986 | 2,980 | 7,380 | 3,807 |
| Residential-type or compact units | 3,388 | 2,176 | 800 | 267 | 135 | 10 | 62,381 | 25,926 | 15,363 | 6,139 | 10,708 | 4,245 |
| Vending machines | 960 | 563 | 235 | 78 | 75 | 10 | 43,936 | 15,933 | 9,519 | 4,288 | 9,715 | 4,481 |
| No refrigeration | 1,573 | 1,234 | 242 | 73 | 23 | Q | 13,448 | 8,809 | 2,290 | 988 | 1,167 | Q |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | | | |
| Snack bar or concession stand | 153 | 99 | 34 | 10 | 8 | 2 | 9,884 | 2,655 | 2,051 | 1,080 | 2,379 | 1,719 |
| Fast food or small restaurant | 173 | 123 | 33 | 4 | 9 | 4 | 9,787 | 4,502 | 1,133 | 308 | 1,803 | 2,041 |
| Cafeteria or large restaurant | 130 | 56 | 35 | 14 | 22 | 3 | 15,222 | 3,435 | 3,686 | 1,563 | 4,054 | 2,483 |
| Commercial kitchen/ food preparation area | 282 | 149 | 75 | 31 | 24 | 3 | 16,150 | 4,853 | 3,907 | 1,638 | 3,890 | 1,862 |
| Small kitchen area | 736 | 401 | 214 | 76 | 41 | 3 | 14,054 | 4,414 | 3,629 | 1,621 | 2,942 | 1,448 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | | | |
| Multipaned windows | 3,012 | 1,914 | 720 | 250 | 119 | 9 | 60,362 | 25,811 | 14,300 | 6,199 | 10,016 | 4,036 |
| Tinted window glass | 1,875 | 1,284 | 400 | 116 | 67 | 8 | 45,025 | 19,777 | 10,137 | 4,063 | 7,385 | 3,663 |
| Reflective window glass | 549 | 344 | 144 | 32 | 26 | 4 | 15,908 | 5,890 | 3,716 | 1,461 | 2,919 | 1,922 |
| External overhangs or awnings | 1,867 | 1,283 | 419 | 113 | 49 | 4 | 32,188 | 16,607 | 7,423 | 2,367 | 3,976 | 1,815 |
| Skylights or atriums | 591 | 338 | 175 | 42 | 33 | 3 | 22,261 | 8,545 | 5,864 | 1,980 | 4,066 | 1,805 |
| Light scheduling | 918 | 598 | 211 | 59 | 43 | 7 | 30,263 | 12,166 | 6,418 | 2,568 | 5,639 | 3,473 |
| Occupancy sensors | 813 | 467 | 185 | 84 | 67 | 9 | 35,871 | 11,946 | 7,593 | 3,829 | 8,000 | 4,502 |
| Multi-level lighting or dimming | 349 | 199 | 84 | 34 | 28 | 4 | 14,534 | 5,358 | 2,657 | 1,381 | 3,136 | 2,002 |
| Daylight harvesting | 125 | 79 | 23 | 15 | 6 | 1 | 6,114 | 2,552 | 1,041 | 547 | 1,221 | 754 |
| Demand responsive lighting | 176 | 120 | 42 | Q | 3 | 1 | 4,738 | 2,723 | 1,069 | Q | 468 | 274 |
| Building automation system (BAS) for lighting[2] | 208 | 148 | 38 | 8 | 12 | 3 | 12,068 | 5,368 | 2,428 | 602 | 2,276 | 1,394 |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 532 | 380 | 372 | 250 | 174 | 143 | 162 |
| 5,001 to 10,000 | 1,229 | 230 | 180 | 143 | 143 | 111 | 51 | 77 |
| 10,001 to 25,000 | 884 | 129 | 142 | 78 | 116 | 90 | 75 | 73 |
| 25,001 to 50,000 | 332 | 66 | 49 | 19 | 45 | 28 | 41 | 24 |
| 50,001 to 100,000 | 199 | 32 | 24 | Q | 26 | 7 | 48 | 9 |
| 100,001 to 200,000 | 90 | 15 | 13 | Q | 16 | Q | 22 | 4 |
| 200,001 to 500,000 | 38 | 6 | 7 | Q | 5 | Q | 9 | 2 |
| Over 500,000 | 8 | 3 | 1 | Q | 1 | N | Q | 1 |
| **Year constructed** | | | | | | | | |
| Before 1920 | 362 | 83 | 26 | Q | 48 | 38 | 6 | 38 |
| 1920 to 1945 | 488 | 86 | 48 | 55 | 54 | 47 | 33 | 48 |
| 1946 to 1959 | 599 | 111 | 55 | 67 | 59 | 57 | 48 | 45 |
| 1960 to 1969 | 639 | 102 | 65 | 94 | 64 | 52 | 61 | 39 |
| 1970 to 1979 | 684 | 132 | 88 | 78 | 83 | 52 | 38 | 37 |
| 1980 to 1989 | 915 | 192 | 160 | 99 | 98 | 58 | 47 | 37 |
| 1990 to 1999 | 845 | 139 | 163 | 97 | 77 | 40 | 64 | 51 |
| 2000 to 2003 | 375 | 55 | 59 | 34 | 37 | 32 | 48 | 13 |
| 2004 to 2007 | 347 | 68 | 75 | 32 | 44 | Q | 22 | 22 |
| 2008 to 2012 | 303 | 44 | 58 | 30 | 38 | Q | 21 | 23 |
| **Census region and division** | | | | | | | | |
| Northeast | 805 | 148 | 89 | 108 | 98 | 51 | 45 | 65 |
| New England | 302 | 54 | 28 | 41 | 34 | Q | 16 | 36 |
| Middle Atlantic | 504 | 94 | 61 | 68 | 64 | 28 | 29 | 29 |
| Midwest | 1,237 | 230 | 163 | 177 | 131 | 92 | 67 | 100 |
| East North Central | 735 | 154 | 79 | 102 | 84 | 50 | 44 | 65 |
| West North Central | 502 | 76 | 84 | 75 | 47 | 42 | 23 | 34 |
| South | 2,247 | 390 | 325 | 230 | 251 | 195 | 159 | 110 |
| South Atlantic | 1,091 | 198 | 177 | 100 | 142 | 80 | 87 | 45 |
| East South Central | 370 | 63 | 22 | 41 | 31 | 57 | 14 | 34 |
| West South Central | 786 | 129 | 126 | 89 | 78 | 58 | 58 | 31 |
| West | 1,267 | 245 | 219 | 103 | 122 | 74 | 118 | 77 |
| Mountain | 338 | 65 | 46 | Q | 31 | 22 | 24 | 16 |
| Pacific | 929 | 179 | 173 | 78 | 91 | 52 | 94 | 61 |
| **Climate region[1]** | | | | | | | | |
| Very cold/Cold | 2,031 | 393 | 273 | 256 | 222 | 128 | 112 | 158 |
| Mixed-humid | 1,743 | 316 | 228 | 202 | 210 | 163 | 97 | 93 |
| Mixed-dry/Hot-dry | 837 | 144 | 177 | 81 | 61 | 46 | 83 | 55 |
| Hot-humid | 799 | 129 | 94 | 67 | 92 | 66 | 85 | 31 |
| Marine | 147 | 30 | Q | Q | Q | Q | Q | Q |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Number of floors** | | | | | | | | |
| One | 3,836 | 554 | 661 | 495 | 441 | 261 | 266 | 223 |
| Two | 1,158 | 277 | 114 | 94 | 116 | 125 | 66 | 87 |
| Three | 374 | 118 | 15 | 24 | 32 | 21 | 36 | 24 |
| Four to nine | 177 | 56 | Q | Q | Q | Q | 19 | 18 |
| Ten or more | 13 | 7 | N | Q | Q | N | Q | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | |
| Any elevators | 405 | 146 | 19 | Q | 16 | 20 | 62 | 29 |
| Number of elevators | | | | | | | | |
| One | 272 | 94 | 12 | Q | 14 | 17 | 47 | 20 |
| Two to five | 118 | 46 | 8 | Q | Q | Q | 14 | 8 |
| Six or more | 16 | 6 | N | Q | Q | Q | Q | 1 |
| Any escalators | 10 | 5 | N | Q | 1 | Q | N | 1 |
| **Number of workers (main shift)** | | | | | | | | |
| Fewer than 5 | 2,892 | 320 | 528 | 398 | 265 | 296 | 122 | 230 |
| 5 to 9 | 1,085 | 254 | 104 | 119 | 132 | 61 | 71 | 65 |
| 10 to 19 | 731 | 168 | 89 | 61 | 95 | 42 | 50 | 32 |
| 20 to 49 | 513 | 144 | 54 | 30 | 72 | 11 | 82 | 15 |
| 50 to 99 | 206 | 70 | 12 | Q | 27 | Q | 45 | 6 |
| 100 to 249 | 93 | 34 | 7 | Q | 10 | Q | 17 | 2 |
| 250 or more | 37 | 22 | 2 | Q | 2 | N | 3 | 1 |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 1,149 | 61 | 142 | 71 | 44 | 289 | 60 | 110 |
| 40 to 48 | 1,346 | 488 | 199 | 194 | 118 | 38 | 127 | 44 |
| 49 to 60 | 1,244 | 309 | 195 | 207 | 171 | 37 | 121 | 75 |
| 61 to 84 | 764 | 79 | 77 | 101 | 185 | 27 | 45 | 69 |
| 85 to 167 | 479 | 31 | 53 | 24 | 70 | Q | 28 | 33 |
| Open continuously | 575 | 45 | 130 | Q | 15 | Q | 8 | 21 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 4,781 | 862 | 743 | 544 | 598 | 411 | 162 | 234 |
| Owner occupied | 2,466 | 370 | 334 | 282 | 233 | 368 | 124 | 163 |
| Leased to tenant(s) | 1,745 | 357 | 364 | 237 | 314 | 32 | 33 | 53 |
| Owner occupied and leased | 349 | 135 | 44 | 25 | 51 | Q | Q | 18 |
| Unoccupied | 221 | N | N | N | N | N | N | N |
| Government owned | 776 | 150 | 53 | 74 | Q | Q | 227 | 118 |
| Federal | 33 | 9 | Q | Q | Q | N | Q | Q |
| State | 185 | 43 | Q | Q | Q | N | 60 | 21 |
| Local | 558 | 98 | Q | 49 | Q | Q | 162 | 97 |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | |
| Building owner | 4,715 | 873 | 668 | 495 | 426 | 394 | 368 | 324 |
| Business owner or tenant | 724 | 118 | 108 | 115 | 167 | Q | Q | 12 |
| Property management | 54 | 14 | Q | Q | Q | N | Q | Q |
| Other | 64 | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | |
| Building owner | 4,876 | 900 | 715 | 510 | 465 | 393 | 369 | 322 |
| Business owner or tenant | 540 | 86 | 67 | 94 | 120 | Q | Q | Q |
| Property management | 35 | 12 | Q | Q | Q | N | Q | Q |
| Other | 106 | 15 | Q | Q | 13 | Q | Q | Q |
| **Number of establishments** | | | | | | | | |
| One | 4,205 | 657 | 642 | 526 | 372 | 385 | 369 | 300 |
| 2 to 5 | 862 | 275 | 110 | 82 | 133 | 26 | 19 | 50 |
| 6 to 10 | 147 | 52 | 22 | Q | 58 | N | N | Q |
| 11 to 20 | 68 | 19 | Q | Q | 30 | N | N | Q |
| More than 20 | 27 | 8 | Q | N | 8 | N | N | Q |
| Currently unoccupied | 248 | N | N | N | N | N | N | N |
| **Campus or complex activity** | | | | | | | | |
| Not part of a campus or complex | 3,683 | 742 | 394 | 441 | 467 | 292 | 120 | 212 |
| Primary or secondary school | 237 | Q | Q | Q | N | Q | 173 | 15 |
| College or university | 84 | 15 | Q | Q | N | N | 35 | 7 |
| Office complex | 154 | 113 | Q | Q | Q | N | Q | Q |
| Retail complex | 258 | Q | Q | 29 | 124 | N | N | Q |
| Storage complex | 314 | Q | 259 | Q | Q | N | N | N |
| Religious campus or complex | 197 | Q | N | N | Q | 118 | 26 | Q |
| Health care complex | 52 | Q | Q | N | N | N | Q | Q |
| Lodging or resort complex | 65 | Q | Q | Q | Q | N | Q | Q |
| Transportation complex | 35 | Q | Q | Q | N | N | N | Q |
| Government complex | 104 | 35 | Q | Q | N | N | Q | Q |
| Other | 371 | 48 | 74 | 93 | Q | N | 22 | 56 |
| **Predominant exterior wall material** | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 518 | 143 | 172 | 239 | 227 | 211 | 133 |
| Concrete (block or poured) | 1,121 | 167 | 154 | 158 | 176 | 47 | 61 | 76 |
| Concrete panels | 210 | 44 | 65 | Q | 18 | Q | 12 | 6 |
| Siding or shingles | 905 | 194 | 96 | 60 | 77 | 86 | 68 | 90 |
| Metal panels | 933 | 71 | 327 | 206 | 89 | 28 | 35 | 43 |
| Window glass | 17 | 4 | Q | N | Q | Q | Q | Q |
| Other | 37 | 9 | Q | Q | Q | Q | Q | Q |
| No one major type | 21 | Q | Q | Q | Q | Q | Q | Q |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Predominant roof material** | | | | | | | | |
| Metal surfacing | 1,672 | 192 | 433 | 302 | 158 | 94 | 79 | 100 |
| Synthetic or rubber | 911 | 194 | 103 | 91 | 119 | 22 | 73 | 63 |
| Built-up | 836 | 164 | 93 | 68 | 121 | 30 | 112 | 38 |
| Slate or tile shingles | 406 | 87 | Q | Q | 28 | 62 | 29 | 35 |
| Wooden materials (including shingles) | 157 | 26 | Q | Q | Q | Q | Q | Q |
| Asphalt, fiberglass, or other shingles | 1,483 | 334 | 108 | 98 | 143 | 190 | 87 | 100 |
| Concrete | 51 | 13 | Q | Q | Q | N | Q | Q |
| Other | 24 | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 18 | Q | Q | Q | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | |
| Roof tilt | | | | | | | | |
| Flat | 1,960 | 408 | 248 | 193 | 275 | 42 | 162 | 77 |
| Shallow pitch | 2,148 | 317 | 430 | 275 | 232 | 104 | 152 | 158 |
| Steeper pitch | 1,449 | 288 | 117 | 151 | 96 | 265 | 75 | 116 |
| Cool roof | 740 | 141 | 96 | 70 | 94 | 51 | 86 | 51 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | |
| Any type of renovation | 2,094 | 460 | 176 | 163 | 236 | 197 | 161 | 140 |
| Addition or annex | 444 | 81 | 35 | 44 | 34 | 61 | 49 | 26 |
| Reduction in floorspace | 71 | 10 | Q | Q | Q | Q | Q | Q |
| Roof replacement | 987 | 220 | 67 | 77 | 109 | 117 | 84 | 74 |
| Exterior wall replacement | 194 | 44 | 12 | Q | 19 | Q | 19 | Q |
| Interior wall reconfiguration | 889 | 261 | 69 | 57 | 101 | 52 | 59 | 48 |
| Window replacement | 560 | 139 | 35 | 36 | 58 | 64 | 48 | 49 |
| HVAC equipment upgrade | 1,101 | 254 | 65 | 89 | 123 | 113 | 100 | 79 |
| Lighting upgrade | 982 | 235 | 58 | 60 | 121 | 76 | 87 | 69 |
| Electrical upgrade | 747 | 171 | 52 | 49 | 101 | 61 | 57 | 50 |
| Plumbing system upgrade | 644 | 128 | 44 | 42 | 66 | 56 | 52 | 43 |
| Insulation upgrade | 382 | 89 | 29 | 37 | 39 | 39 | 29 | 27 |
| Fire, safety, or security upgrade | 616 | 151 | 40 | 35 | 57 | 56 | 71 | 33 |
| Structural upgrade | 152 | 31 | Q | Q | Q | Q | 9 | 10 |
| Other | 39 | Q | Q | N | Q | Q | Q | Q |
| No renovations | 3,160 | 509 | 562 | 426 | 328 | 202 | 207 | 189 |
| Buildings constructed 2008 or later | 303 | 44 | 58 | 30 | 38 | Q | 21 | 23 |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 5,234 | 1,012 | 675 | 602 | 599 | 412 | 389 | 352 |
| Natural gas | 2,933 | 595 | 261 | 339 | 356 | 229 | 234 | 205 |
| Fuel oil | 467 | 86 | 26 | 86 | 44 | 23 | 30 | 27 |
| District heat | 48 | 12 | Q | Q | Q | N | 12 | 7 |
| District chilled water | 54 | 10 | N | N | N | Q | 25 | 5 |
| Propane | 510 | 35 | 45 | 69 | 51 | 66 | 25 | 67 |
| Other | 172 | 24 | 16 | 39 | 22 | Q | 10 | 17 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 2,858 | 653 | 264 | 270 | 387 | 231 | 214 | 162 |
| Natural gas | 2,612 | 554 | 235 | 329 | 324 | 217 | 203 | 187 |
| Fuel oil | 270 | 42 | Q | 70 | 35 | Q | 21 | Q |
| District heat | 48 | 12 | Q | Q | Q | N | 12 | 7 |
| Propane | 342 | 27 | 26 | 54 | 35 | 63 | 16 | 46 |
| Other | 101 | Q | Q | 39 | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | |
| Electricity | 1,819 | 424 | 180 | 127 | 229 | 132 | 154 | 94 |
| Natural gas | 2,322 | 493 | 213 | 290 | 283 | 199 | 182 | 164 |
| Fuel oil | 205 | 32 | Q | 48 | Q | Q | 17 | Q |
| District heat | 47 | 12 | Q | Q | Q | N | 12 | 7 |
| Propane | 261 | 24 | Q | 37 | Q | 53 | Q | 44 |
| Other | 67 | Q | Q | 26 | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 4,413 | 985 | 388 | 435 | 560 | 375 | 338 | 291 |
| Natural gas | 12 | Q | Q | N | Q | N | Q | N |
| District chilled water | 54 | 10 | N | N | N | Q | 25 | 5 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 2,658 | 614 | 264 | 273 | 400 | 233 | 159 | 160 |
| Natural gas | 1,758 | 323 | 117 | 161 | 194 | 144 | 167 | 135 |
| Fuel oil | 77 | Q | Q | Q | Q | Q | 11 | Q |
| District heat | 25 | 8 | N | Q | Q | N | 7 | 3 |
| Propane | 142 | Q | Q | Q | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 1,010 | 101 | 26 | 28 | 101 | 167 | 116 | 89 |
| Natural gas | 740 | 39 | Q | Q | 92 | 93 | 86 | 46 |
| Propane | 144 | Q | Q | Q | Q | Q | 7 | 24 |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 4,722 | 989 | 420 | 528 | 572 | 408 | 379 | 330 |
| Buildings with cooling | 4,461 | 995 | 391 | 435 | 560 | 375 | 361 | 295 |
| Buildings with water heating | 4,423 | 943 | 370 | 442 | 531 | 383 | 332 | 317 |
| Buildings with cooking | 1,589 | 130 | 33 | 39 | 157 | 261 | 169 | 143 |
| Buildings with manufacturing | 259 | 31 | 77 | 46 | 28 | Q | Q | Q |
| Buildings with electricity generation | 410 | 94 | 29 | 19 | 31 | Q | 38 | 21 |
| **Percent of floorspace heated** | | | | | | | | |
| Not heated | 835 | 23 | 375 | 90 | 30 | Q | Q | 22 |
| 1 to 50 | 697 | 73 | 224 | 109 | 73 | 35 | Q | 35 |
| 51 to 99 | 727 | 165 | 28 | 86 | 138 | 43 | 56 | 51 |
| 100 | 3,298 | 750 | 168 | 334 | 361 | 330 | 314 | 244 |
| **Percent of floorspace cooled** | | | | | | | | |
| Not cooled | 1,096 | Q | 405 | 183 | 42 | 36 | 28 | 57 |
| 1 to 50 | 1,173 | 136 | 290 | 293 | 129 | 45 | 42 | 56 |
| 51 to 99 | 897 | 237 | 29 | 38 | 154 | 64 | 73 | 69 |
| 100 | 2,391 | 622 | 72 | 104 | 278 | 266 | 246 | 170 |
| **Percent lit when open** | | | | | | | | |
| Zero | 70 | N | 53 | Q | N | N | N | Q |
| 1 to 50 | 1,099 | 227 | 239 | 121 | 73 | 101 | 30 | 84 |
| 51 to 99 | 1,666 | 399 | 126 | 148 | 275 | 146 | 126 | 120 |
| 100 | 2,222 | 386 | 197 | 311 | 251 | 163 | 233 | 135 |
| Building never open/electricity not used | 501 | N | 180 | Q | Q | Q | N | Q |
| **Percent lit during off hours** | | | | | | | | |
| Zero | 2,489 | 455 | 426 | 330 | 142 | 300 | 200 | 214 |
| 1 to 50 | 2,441 | 532 | 193 | 254 | 439 | 110 | 183 | 126 |
| 51 to 100 | 202 | 22 | 26 | Q | 13 | Q | 4 | 10 |
| Building always open with no "off hours" | 102 | Q | Q | Q | Q | N | Q | Q |
| Electricity not used | 323 | N | 121 | Q | Q | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | | |
| Heat pumps | 628 | 157 | 53 | 43 | 83 | 52 | 62 | 42 |
| Furnaces | 755 | 196 | 58 | 70 | 89 | 91 | 26 | 61 |
| Individual space heaters | 1,247 | 234 | 150 | 259 | 136 | 89 | 45 | 80 |
| District heat | 48 | 12 | Q | Q | Q | N | 12 | 7 |
| Boilers | 544 | 110 | 18 | 30 | 59 | 61 | 96 | 41 |
| Packaged heating units | 2,802 | 560 | 246 | 285 | 402 | 236 | 223 | 183 |
| Other | 62 | Q | Q | Q | 13 | Q | Q | Q |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Cooling equipment (more than one may apply)** | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 358 | 149 | 138 | 209 | 164 | 68 | 116 |
| Heat pumps | 692 | 175 | 57 | 50 | 96 | 57 | 69 | 42 |
| Individual air conditioners | 709 | 124 | 71 | 126 | 73 | 61 | 45 | 29 |
| District chilled water | 54 | 10 | N | N | N | Q | 25 | 5 |
| Central chillers | 163 | 43 | Q | Q | Q | Q | 42 | 15 |
| Packaged air conditioning units | 1,909 | 396 | 158 | 140 | 301 | 146 | 165 | 127 |
| Swamp coolers | 109 | Q | Q | Q | 14 | Q | Q | Q |
| Other | Q | Q | Q | Q | N | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | |
| Heating | 1,874 | 424 | 142 | 212 | 249 | 165 | 142 | 120 |
| Cooling | 1,971 | 481 | 137 | 186 | 272 | 166 | 139 | 122 |
| **Water-heating equipment** | | | | | | | | |
| Centralized system | 3,348 | 713 | 252 | 347 | 342 | 290 | 244 | 248 |
| Distributed system | 690 | 160 | 93 | 80 | 90 | 70 | 51 | 41 |
| Combination of centralized and distributed system | 385 | 71 | 26 | Q | 99 | 23 | 38 | 28 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | |
| Incandescent | 1,826 | 361 | 136 | 126 | 273 | 253 | 97 | 144 |
| Standard fluorescent | 4,649 | 949 | 509 | 552 | 570 | 363 | 382 | 299 |
| Compact fluorescent | 2,302 | 484 | 161 | 168 | 301 | 222 | 176 | 165 |
| High-intensity discharge (HID) | 525 | 57 | 76 | 70 | 98 | 39 | 57 | 41 |
| Halogen | 905 | 161 | 66 | 78 | 175 | 90 | 50 | 67 |
| LED | 473 | 81 | 23 | Q | 117 | 33 | 28 | 46 |
| Other | 10 | Q | N | N | Q | N | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | |
| Any refrigeration | 3,984 | 816 | 314 | 415 | 500 | 351 | 277 | 268 |
| Walk-in units | 811 | 23 | 19 | Q | 149 | Q | 80 | 28 |
| Cases or cabinets | 915 | 43 | 14 | Q | 195 | 38 | 81 | 56 |
| Large cold storage areas | 78 | Q | 12 | N | 19 | Q | Q | Q |
| Commercial ice makers | 846 | 72 | 29 | Q | 113 | 39 | 68 | 51 |
| Residential-type or compact units | 3,388 | 788 | 286 | 384 | 417 | 330 | 229 | 243 |
| Vending machines | 960 | 179 | 90 | 118 | 173 | 12 | 97 | 48 |
| No refrigeration | 1,573 | 197 | 482 | 204 | 102 | 61 | 112 | 84 |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Office equipment (more than one may apply)** | | | | | | | | |
| Desktop computers | 3,977 | 977 | 370 | 428 | 527 | 246 | 357 | 231 |
| With flat screen monitors | 3,847 | 967 | 361 | 412 | 514 | 223 | 347 | 216 |
| With multiple monitors | 911 | 376 | 96 | 48 | 128 | 35 | 50 | 26 |
| Laptop computers | 2,730 | 753 | 253 | 246 | 350 | 186 | 255 | 155 |
| Dedicated servers | 1,748 | 580 | 173 | 116 | 239 | 58 | 150 | 70 |
| Laser printers | 2,339 | 728 | 224 | 209 | 282 | 104 | 223 | 115 |
| Inkjet printers | 2,187 | 430 | 200 | 269 | 323 | 162 | 167 | 152 |
| FAX machines | 3,185 | 873 | 329 | 347 | 465 | 143 | 218 | 171 |
| Photocopiers | 2,163 | 710 | 209 | 133 | 250 | 195 | 199 | 120 |
| **Number of desktop computers** | | | | | | | | |
| None | 1,581 | 35 | 426 | 191 | 75 | 166 | 31 | 121 |
| 1 to 4 | 2,039 | 271 | 178 | 332 | 262 | 198 | 100 | 146 |
| 5 to 9 | 821 | 284 | 95 | 60 | 141 | 32 | 46 | 37 |
| 10 to 19 | 482 | 184 | 64 | 22 | 71 | Q | 45 | 20 |
| 20 to 49 | 355 | 128 | 25 | Q | 46 | Q | 62 | 23 |
| 50 to 99 | 143 | 60 | 6 | Q | 6 | Q | 45 | 2 |
| 100 to 249 | 92 | 31 | 2 | Q | 1 | Q | 41 | 3 |
| 250 or more | 44 | 19 | Q | N | Q | N | 18 | 2 |
| **Number of laptop computers** | | | | | | | | |
| None | 2,827 | 259 | 543 | 372 | 252 | 226 | 134 | 197 |
| 1 to 4 | 1,944 | 460 | 193 | 228 | 264 | 162 | 108 | 131 |
| 5 to 9 | 350 | 128 | 41 | Q | 52 | 18 | 31 | 11 |
| 10 to 19 | 181 | 65 | 9 | Q | 29 | Q | 27 | 8 |
| 20 to 49 | 144 | 64 | 8 | Q | 5 | Q | 43 | 2 |
| 50 to 99 | 58 | 19 | Q | Q | Q | Q | 24 | Q |
| 100 to 249 | 35 | 10 | Q | Q | Q | N | 15 | Q |
| 250 or more | 20 | 8 | Q | N | Q | N | 7 | Q |
| **Number of dedicated servers** | | | | | | | | |
| None | 3,809 | 433 | 623 | 502 | 364 | 354 | 239 | 282 |
| 1 to 4 | 1,562 | 479 | 159 | 116 | 222 | 57 | 130 | 67 |
| 5 to 9 | 97 | 51 | 9 | Q | 12 | Q | 9 | Q |
| 10 to 19 | 50 | 26 | Q | Q | 5 | N | 7 | Q |
| 20 to 49 | 25 | 16 | Q | Q | Q | N | 2 | 1 |
| 50 or more | 13 | 6 | Q | N | N | N | Q | Q |
| **Number of photocopiers** | | | | | | | | |
| None | 3,394 | 302 | 587 | 486 | 352 | 217 | 190 | 232 |
| One | 1,325 | 352 | 141 | 103 | 163 | 156 | 83 | 90 |
| 2 to 4 | 648 | 259 | 59 | 27 | 70 | 38 | 88 | 24 |
| 5 to 9 | 116 | 55 | 7 | Q | 16 | Q | 21 | 3 |
| 10 or more | 75 | 44 | Q | Q | 1 | Q | 7 | 3 |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Number of TVs or video displays** | | | | | | | | |
| None | 2,718 | 463 | 626 | 345 | 222 | 173 | 118 | 160 |
| One | 1,145 | 249 | 90 | 170 | 150 | 108 | 72 | 67 |
| 2 to 4 | 1,035 | 200 | 72 | 96 | 121 | 101 | 92 | 90 |
| 5 to 9 | 314 | 60 | 6 | Q | 44 | 23 | 39 | 16 |
| 10 to 19 | 154 | 25 | Q | Q | 35 | Q | 28 | 11 |
| 20 to 49 | 106 | 11 | Q | N | 25 | Q | 27 | 5 |
| 50 to 99 | 48 | 2 | Q | N | 5 | N | 10 | Q |
| 100 or more | 37 | 1 | Q | N | Q | N | Q | 1 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | |
| Snack bar or concession stand | 153 | 8 | Q | Q | 31 | Q | 30 | 18 |
| Fast food or small restaurant | 173 | 9 | Q | Q | 99 | N | Q | 8 |
| Cafeteria or large restaurant | 130 | 12 | Q | N | 15 | Q | 70 | 6 |
| Commercial kitchen/ food preparation area | 282 | 12 | Q | Q | 30 | 57 | 69 | 28 |
| Small kitchen area | 736 | 95 | 26 | 34 | 49 | 205 | 67 | 98 |
| **Separate computer areas (more than one may apply)** | | | | | | | | |
| Data center or server farm | 97 | 51 | 7 | Q | Q | Q | 13 | 2 |
| Computer-based training room | 244 | 67 | 10 | Q | 38 | Q | 78 | 8 |
| Student or public computer center | 238 | 19 | Q | Q | 22 | Q | 126 | 21 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | |
| Economizer cycle | 601 | 134 | 29 | 22 | 94 | 25 | 114 | 42 |
| Regular HVAC maintenance | 3,178 | 703 | 248 | 264 | 390 | 238 | 345 | 224 |
| Building automation system (BAS)[2] | 781 | 143 | 30 | 24 | 134 | 52 | 180 | 54 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | |
| Multipaned windows | 3,012 | 686 | 258 | 265 | 378 | 247 | 221 | 203 |
| Tinted window glass | 1,875 | 409 | 159 | 169 | 285 | 152 | 151 | 94 |
| Reflective window glass | 549 | 138 | 51 | 33 | 95 | 52 | 42 | 33 |
| External overhangs or awnings | 1,867 | 370 | 132 | 159 | 330 | 109 | 125 | 120 |
| Skylights or atriums | 591 | 113 | 83 | 70 | 80 | 39 | 46 | 42 |
| Light scheduling | 918 | 168 | 56 | 71 | 233 | 35 | 80 | 77 |
| Occupancy sensors | 813 | 187 | 76 | 36 | 142 | 15 | 122 | 63 |
| Multi-level lighting or dimming | 349 | 56 | 4 | Q | 83 | 40 | 26 | 38 |
| Daylight harvesting | 125 | 28 | 11 | Q | 29 | Q | 9 | 8 |
| Demand responsive lighting | 176 | 15 | Q | Q | 52 | Q | 15 | Q |
| Building automation system (BAS) for lighting[2] | 208 | 25 | 4 | Q | 93 | Q | 32 | 13 |

## Table B11. Selected principal building activity: part 1, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 5,557 | 1,012 | 796 | 619 | 602 | 412 | 389 | 352 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | |
| Heating | 3,699 | 798 | 294 | 400 | 479 | 362 | 348 | 272 |
| Cooling | 3,517 | 803 | 272 | 343 | 475 | 337 | 333 | 243 |
| Lighting | 4,757 | 990 | 518 | 570 | 578 | 404 | 385 | 331 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 1,520 | 1,127 | 1,031 | 730 | 572 | 391 | 498 |
| 5,001 to 10,000 | 8,900 | 1,663 | 1,329 | 1,051 | 1,052 | 790 | 353 | 536 |
| 10,001 to 25,000 | 14,105 | 2,012 | 2,331 | 1,253 | 1,821 | 1,443 | 1,212 | 1,108 |
| 25,001 to 50,000 | 11,917 | 2,333 | 1,814 | 607 | 1,648 | 926 | 1,492 | 861 |
| 50,001 to 100,000 | 13,918 | 2,203 | 1,632 | Q | 1,909 | 585 | 3,363 | 627 |
| 100,001 to 200,000 | 12,415 | 2,054 | 1,946 | Q | 2,178 | Q | 3,020 | 553 |
| 200,001 to 500,000 | 10,724 | 1,946 | 1,827 | Q | 1,264 | Q | 2,358 | 748 |
| Over 500,000 | 7,074 | 2,221 | 1,071 | Q | 726 | N | Q | 627 |
| **Year constructed** | | | | | | | | |
| Before 1920 | 3,983 | 1,014 | 680 | Q | 339 | 319 | 260 | 380 |
| 1920 to 1945 | 6,025 | 1,491 | 473 | 489 | 300 | 385 | 1,122 | 640 |
| 1946 to 1959 | 7,381 | 1,254 | 740 | 330 | 657 | 612 | 1,447 | 521 |
| 1960 to 1969 | 10,362 | 1,427 | 1,386 | 520 | 1,029 | 704 | 2,180 | 866 |
| 1970 to 1979 | 10,846 | 2,125 | 1,467 | 629 | 1,573 | 378 | 1,178 | 586 |
| 1980 to 1989 | 15,230 | 3,969 | 2,294 | 877 | 2,275 | 547 | 1,268 | 599 |
| 1990 to 1999 | 13,803 | 2,108 | 2,204 | 775 | 2,085 | 651 | 1,655 | 890 |
| 2000 to 2003 | 7,215 | 1,040 | 1,316 | 263 | 1,085 | 477 | 1,427 | 360 |
| 2004 to 2007 | 6,524 | 874 | 1,437 | 321 | 1,083 | Q | 900 | 359 |
| 2008 to 2012 | 5,723 | 649 | 1,081 | 245 | 902 | Q | 802 | 360 |
| **Census region and division** | | | | | | | | |
| Northeast | 15,534 | 3,703 | 1,761 | 823 | 1,653 | 897 | 2,056 | 953 |
| New England | 4,302 | 738 | 521 | 255 | 463 | Q | 642 | 350 |
| Middle Atlantic | 11,232 | 2,965 | 1,240 | 568 | 1,190 | 613 | 1,414 | 603 |
| Midwest | 18,919 | 3,334 | 2,530 | 1,472 | 2,132 | 925 | 3,173 | 1,585 |
| East North Central | 12,742 | 2,430 | 1,570 | 847 | 1,488 | 547 | 2,205 | 1,196 |
| West North Central | 6,178 | 904 | 960 | 625 | 644 | 378 | 968 | 390 |
| South | 34,279 | 5,501 | 5,257 | 1,642 | 4,729 | 2,011 | 5,162 | 2,003 |
| South Atlantic | 17,981 | 3,183 | 2,832 | 741 | 2,746 | 857 | 2,840 | 904 |
| East South Central | 4,904 | 694 | Q | 318 | 736 | 614 | 469 | 330 |
| West South Central | 11,394 | 1,625 | 1,919 | 583 | 1,247 | 540 | 1,853 | 769 |
| West | 18,360 | 3,414 | 3,529 | 694 | 2,815 | 725 | 1,848 | 1,018 |
| Mountain | 4,981 | 852 | 591 | Q | 727 | 214 | 783 | 321 |
| Pacific | 13,379 | 2,562 | 2,938 | 578 | 2,088 | 511 | 1,065 | 697 |
| **Climate region[1]** | | | | | | | | |
| Very cold/Cold | 31,898 | 6,033 | 4,121 | 1,957 | 3,920 | 1,623 | 4,739 | 2,351 |
| Mixed-humid | 27,873 | 5,496 | 3,740 | 1,503 | 3,444 | 1,698 | 4,426 | 1,479 |
| Mixed-dry/Hot-dry | 12,037 | 1,873 | 2,932 | 582 | 1,652 | 461 | 1,075 | 834 |
| Hot-humid | 12,831 | 1,776 | 2,066 | 512 | 1,979 | 674 | 1,878 | 622 |
| Marine | 2,454 | 774 | Q | Q | 335 | Q | Q | Q |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Number of floors** | | | | | | | | |
| One | 39,809 | 3,644 | 9,153 | 2,996 | 8,616 | 1,916 | 4,419 | 2,097 |
| Two | 20,206 | 3,577 | 2,925 | 1,157 | 1,986 | 2,030 | 3,765 | 1,209 |
| Three | 8,140 | 1,877 | 683 | 236 | 349 | 426 | 1,967 | 594 |
| Four to nine | 13,535 | 3,949 | Q | Q | Q | Q | 1,987 | 1,605 |
| Ten or more | 5,404 | 2,904 | N | Q | Q | N | Q | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | |
| Any elevators | 32,120 | 9,940 | 1,841 | Q | 947 | 796 | 6,057 | 2,513 |
| Number of elevators | | | | | | | | |
| One | 11,158 | 2,722 | 1,029 | Q | 358 | 480 | 3,694 | 657 |
| Two to five | 12,817 | 4,116 | 813 | Q | Q | Q | 2,309 | 1,036 |
| Six or more | 8,145 | 3,101 | N | Q | Q | Q | Q | 820 |
| Any escalators | 3,654 | 1,387 | N | Q | 476 | Q | N | 668 |
| **Number of workers (main shift)** | | | | | | | | |
| Fewer than 5 | 17,751 | 1,003 | 4,003 | 1,671 | 1,236 | 2,397 | 504 | 1,695 |
| 5 to 9 | 8,973 | 1,206 | 1,496 | 780 | 1,291 | 751 | 544 | 941 |
| 10 to 19 | 9,623 | 1,276 | 2,201 | 794 | 1,232 | 595 | 774 | 540 |
| 20 to 49 | 14,514 | 2,134 | 2,028 | 778 | 2,590 | 560 | 3,156 | 635 |
| 50 to 99 | 13,476 | 2,556 | 1,330 | Q | 2,333 | Q | 3,829 | 537 |
| 100 to 249 | 10,941 | 2,059 | 1,473 | Q | 1,789 | Q | 2,899 | 596 |
| 250 or more | 11,815 | 5,718 | 547 | Q | 859 | N | 533 | 614 |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 8,220 | 227 | 800 | 288 | 228 | 2,208 | 855 | 690 |
| 40 to 48 | 15,828 | 4,530 | 3,221 | 1,109 | 710 | 651 | 3,420 | 666 |
| 49 to 60 | 20,529 | 5,981 | 3,798 | 1,612 | 1,968 | 705 | 3,867 | 811 |
| 61 to 84 | 15,867 | 2,198 | 1,541 | 1,001 | 5,272 | 556 | 2,303 | 1,380 |
| 85 to 167 | 9,395 | 788 | 1,867 | 254 | 2,047 | Q | 1,454 | 1,206 |
| Open continuously | 17,253 | 2,228 | 1,850 | Q | 1,105 | Q | 340 | 806 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 67,550 | 12,815 | 12,316 | 3,800 | 11,298 | 4,542 | 3,084 | 3,178 |
| Owner occupied | 30,637 | 3,169 | 5,098 | 1,803 | 3,189 | 4,097 | 2,471 | 2,049 |
| Leased to tenant(s) | 26,115 | 7,118 | 5,989 | 1,629 | 6,566 | 224 | 327 | 508 |
| Owner occupied and leased | 8,873 | 2,528 | 1,229 | 368 | 1,543 | Q | Q | 620 |
| Unoccupied | 1,925 | N | N | N | N | N | N | N |
| Government owned | 19,543 | 3,136 | 761 | 830 | Q | Q | 9,154 | 2,381 |
| Federal | 1,573 | 600 | Q | Q | Q | N | Q | Q |
| State | 5,539 | 1,203 | Q | Q | Q | N | 2,408 | 514 |
| Local | 12,431 | 1,333 | Q | 375 | Q | Q | 6,689 | 1,736 |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | |
| Building owner | 73,702 | 14,126 | 9,847 | 3,593 | 7,195 | 4,471 | 11,988 | 5,009 |
| Business owner or tenant | 11,309 | 1,261 | 2,924 | 905 | 4,011 | Q | Q | 372 |
| Property management | 1,250 | 474 | Q | Q | Q | N | Q | Q |
| Other | 832 | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | |
| Building owner | 76,271 | 14,481 | 10,526 | 3,801 | 8,046 | 4,479 | 12,011 | 5,078 |
| Business owner or tenant | 8,256 | 921 | 2,071 | 695 | 2,808 | Q | Q | Q |
| Property management | 880 | 294 | Q | Q | Q | N | Q | Q |
| Other | 1,686 | 255 | Q | Q | 368 | Q | Q | Q |
| **Number of establishments** | | | | | | | | |
| One | 54,994 | 7,318 | 9,157 | 3,396 | 3,827 | 3,864 | 11,241 | 3,850 |
| 2 to 5 | 17,756 | 3,988 | 3,128 | 957 | 2,483 | 694 | 998 | 1,307 |
| 6 to 10 | 4,425 | 1,693 | 325 | Q | 1,613 | N | N | Q |
| 11 to 20 | 3,704 | 1,234 | Q | Q | 1,775 | N | N | Q |
| More than 20 | 3,821 | 1,719 | Q | N | 1,632 | N | N | Q |
| Currently unoccupied | 2,393 | N | N | N | N | N | N | N |
| **Campus or complex activity** | | | | | | | | |
| Not part of a campus or complex | 52,275 | 10,225 | 8,220 | 3,021 | 7,219 | 3,178 | 5,692 | 2,977 |
| Primary or secondary school | 4,616 | Q | Q | Q | N | Q | 4,060 | 241 |
| College or university | 4,068 | 521 | Q | Q | N | N | 1,879 | 696 |
| Office complex | 3,456 | 2,904 | Q | Q | Q | N | Q | Q |
| Retail complex | 5,159 | Q | Q | 273 | 3,909 | N | N | Q |
| Storage complex | 3,212 | Q | 2,774 | Q | Q | N | N | N |
| Religious campus or complex | 1,932 | Q | N | N | Q | 1,371 | 244 | Q |
| Health care complex | 3,362 | Q | Q | N | N | N | Q | Q |
| Lodging or resort complex | 1,295 | Q | Q | Q | Q | N | Q | Q |
| Transportation complex | 554 | Q | Q | Q | N | N | N | 240 |
| Government complex | 2,107 | 967 | Q | Q | N | N | Q | Q |
| Other | 5,057 | 577 | 1,568 | 754 | Q | N | 232 | 668 |
| **Predominant exterior wall material** | | | | | | | | |
| Brick, stone, or stucco | 40,463 | 7,746 | 2,526 | 1,300 | 4,385 | 3,066 | 8,615 | 2,397 |
| Concrete (block or poured) | 20,726 | 2,887 | 3,576 | 1,454 | 4,661 | 475 | 2,267 | 1,221 |
| Concrete panels | 8,693 | 2,306 | 2,786 | Q | 606 | Q | 437 | 302 |
| Siding or shingles | 5,750 | 977 | 652 | 276 | 550 | 527 | 374 | 759 |
| Metal panels | 8,673 | 738 | 3,086 | 1,389 | 977 | 292 | 439 | 617 |
| Window glass | 1,340 | 884 | Q | N | Q | Q | Q | Q |
| Other | 856 | 240 | Q | Q | Q | Q | Q | Q |
| No one major type | 592 | Q | Q | Q | Q | Q | Q | Q |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Predominant roof material** | | | | | | | | |
| Metal surfacing | 15,916 | 1,662 | 4,177 | 2,019 | 1,973 | 809 | 1,512 | 1,292 |
| Synthetic or rubber | 25,817 | 5,633 | 3,234 | 1,192 | 3,696 | 475 | 3,980 | 1,747 |
| Built-up | 21,835 | 4,721 | 3,020 | 478 | 3,196 | 445 | 4,427 | 965 |
| Slate or tile shingles | 4,306 | 667 | Q | Q | 143 | 800 | 848 | Q |
| Wooden materials (including shingles) | 1,139 | 178 | Q | Q | Q | Q | Q | Q |
| Asphalt, fiberglass, or other shingles | 15,104 | 2,608 | 1,626 | 522 | 1,660 | 1,923 | 1,166 | 788 |
| Concrete | 1,642 | 385 | Q | Q | Q | N | Q | Q |
| Other | 678 | Q | Q | Q | Q | Q | Q | Q |
| No one major type | 657 | Q | Q | Q | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | |
| Roof tilt | | | | | | | | |
| Flat | 49,623 | 11,075 | 6,462 | 2,044 | 6,860 | 780 | 8,079 | 2,388 |
| Shallow pitch | 23,853 | 2,845 | 5,720 | 1,847 | 3,591 | 763 | 2,944 | 2,082 |
| Steeper pitch | 13,617 | 2,031 | 896 | 739 | 879 | 3,015 | 1,215 | 1,088 |
| Cool roof | 19,630 | 3,914 | 2,889 | 820 | 3,023 | 582 | 3,350 | 1,013 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | |
| Any type of renovation | 42,216 | 9,372 | 4,758 | 1,580 | 4,837 | 2,413 | 6,293 | 3,044 |
| Addition or annex | 13,022 | 1,613 | 1,267 | 485 | 1,075 | 931 | 3,335 | 775 |
| Reduction in floorspace | 1,753 | 599 | Q | Q | Q | Q | Q | Q |
| Roof replacement | 20,917 | 4,716 | 1,836 | 814 | 2,133 | 1,542 | 3,714 | 1,472 |
| Exterior wall replacement | 4,230 | 767 | 512 | Q | 494 | Q | 855 | Q |
| Interior wall reconfiguration | 21,340 | 6,558 | 2,021 | 647 | 2,310 | 699 | 2,643 | 1,636 |
| Window replacement | 12,265 | 2,882 | 938 | 499 | 972 | 764 | 2,418 | 1,133 |
| HVAC equipment upgrade | 26,779 | 6,326 | 2,307 | 975 | 3,201 | 1,359 | 4,485 | 1,919 |
| Lighting upgrade | 25,503 | 6,019 | 2,448 | 820 | 3,025 | 982 | 4,268 | 2,047 |
| Electrical upgrade | 16,160 | 3,743 | 1,527 | 441 | 1,909 | 773 | 2,588 | 1,255 |
| Plumbing system upgrade | 13,828 | 3,544 | 1,089 | 347 | 1,303 | 625 | 2,139 | 1,098 |
| Insulation upgrade | 7,607 | 1,662 | 750 | 373 | 639 | 439 | 1,243 | 642 |
| Fire, safety, or security upgrade | 17,196 | 4,610 | 1,460 | 390 | 1,325 | 748 | 3,183 | 1,169 |
| Structural upgrade | 3,913 | 735 | Q | Q | Q | Q | 574 | 400 |
| Other | 848 | Q | Q | N | Q | Q | Q | Q |
| No renovations | 39,154 | 5,931 | 7,238 | 2,805 | 5,590 | 1,948 | 5,143 | 2,155 |
| Buildings constructed 2008 or later | 5,723 | 649 | 1,081 | 245 | 902 | Q | 802 | 360 |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 84,869 | 15,952 | 12,568 | 4,512 | 11,320 | 4,557 | 12,239 | 5,559 |
| Natural gas | 58,725 | 10,290 | 7,007 | 2,790 | 8,493 | 3,016 | 9,520 | 3,888 |
| Fuel oil | 20,200 | 5,328 | 1,773 | 733 | 1,119 | 391 | 2,185 | 1,663 |
| District heat | 5,964 | 1,794 | Q | Q | Q | N | 1,155 | 888 |
| District chilled water | 4,608 | 1,096 | N | N | N | Q | 1,292 | 880 |
| Propane | 7,706 | 358 | 1,516 | 555 | 839 | 487 | 877 | 858 |
| Other | 3,826 | 757 | 549 | 383 | 482 | Q | 806 | 288 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 49,030 | 10,281 | 6,476 | 2,193 | 8,132 | 2,656 | 6,254 | 2,645 |
| Natural gas | 49,511 | 8,555 | 6,499 | 2,758 | 7,435 | 2,671 | 7,967 | 3,337 |
| Fuel oil | 4,351 | 560 | Q | 393 | 306 | Q | 1,074 | Q |
| District heat | 5,925 | 1,794 | Q | Q | Q | N | 1,155 | 888 |
| Propane | 3,067 | 209 | 293 | 432 | 386 | 366 | 307 | 306 |
| Other | 1,010 | Q | Q | 370 | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | |
| Electricity | 26,205 | 6,053 | 3,556 | 981 | 3,901 | 1,472 | 2,972 | 1,184 |
| Natural gas | 42,988 | 7,445 | 5,855 | 2,247 | 6,337 | 2,482 | 7,188 | 2,820 |
| Fuel oil | 2,542 | 296 | Q | 254 | Q | Q | 649 | Q |
| District heat | 5,797 | 1,772 | Q | Q | Q | N | 1,096 | 883 |
| Propane | 1,948 | 166 | Q | 253 | Q | 313 | Q | 270 |
| Other | 598 | Q | Q | 249 | Q | Q | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 76,034 | 15,179 | 10,059 | 3,758 | 11,121 | 4,271 | 10,673 | 4,629 |
| Natural gas | 732 | Q | Q | N | Q | N | Q | N |
| District chilled water | 4,608 | 1,096 | N | N | N | Q | 1,292 | 880 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 42,755 | 9,572 | 7,195 | 2,303 | 8,922 | 2,481 | 4,160 | 2,094 |
| Natural gas | 39,523 | 6,015 | 3,545 | 1,416 | 5,490 | 1,962 | 7,712 | 2,813 |
| Fuel oil | 1,911 | Q | Q | Q | Q | Q | 638 | Q |
| District heat | 4,551 | 1,368 | N | Q | Q | N | 842 | 742 |
| Propane | 1,575 | Q | Q | Q | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 25,151 | 3,637 | 669 | 447 | 4,107 | 1,966 | 5,876 | 1,980 |
| Natural gas | 24,770 | 2,799 | Q | Q | 4,886 | 1,799 | 5,686 | 1,484 |
| Propane | 2,001 | Q | Q | Q | Q | Q | 420 | 241 |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 80,078 | 15,753 | 9,987 | 4,157 | 10,794 | 4,511 | 12,099 | 5,323 |
| Buildings with cooling | 79,294 | 15,882 | 10,120 | 3,773 | 11,121 | 4,271 | 11,811 | 5,235 |
| Buildings with water heating | 79,015 | 15,663 | 10,041 | 3,763 | 10,960 | 4,337 | 11,905 | 5,318 |
| Buildings with cooking | 38,546 | 5,230 | 922 | 517 | 6,396 | 3,394 | 8,479 | 2,751 |
| Buildings with manufacturing | 5,078 | 684 | 1,996 | 465 | 529 | Q | Q | Q |
| Buildings with electricity generation | 25,642 | 6,027 | 2,326 | 422 | 2,281 | Q | 4,126 | 1,878 |
| **Percent of floorspace heated** | | | | | | | | |
| Not heated | 7,015 | 198 | 3,091 | 474 | 536 | Q | Q | 236 |
| 1 to 50 | 10,130 | 758 | 4,737 | 767 | 914 | 496 | Q | 544 |
| 51 to 99 | 14,650 | 3,558 | 843 | 747 | 3,302 | 710 | 1,699 | 996 |
| 100 | 55,298 | 11,437 | 4,407 | 2,643 | 6,577 | 3,305 | 10,178 | 3,783 |
| **Percent of floorspace cooled** | | | | | | | | |
| Not cooled | 7,799 | Q | 2,958 | 857 | 209 | 286 | 428 | 324 |
| 1 to 50 | 18,891 | 1,305 | 7,911 | 2,446 | 1,480 | 633 | 1,810 | 981 |
| 51 to 99 | 22,728 | 5,750 | 722 | 514 | 4,324 | 1,024 | 3,532 | 1,589 |
| 100 | 37,676 | 8,828 | 1,487 | 813 | 5,317 | 2,614 | 6,469 | 2,665 |
| **Percent lit when open** | | | | | | | | |
| Zero | 322 | N | 223 | Q | N | N | N | Q |
| 1 to 50 | 12,628 | 1,732 | 3,750 | 813 | 695 | 1,665 | 530 | 728 |
| 51 to 99 | 34,814 | 6,723 | 3,431 | 1,240 | 6,509 | 1,654 | 5,777 | 2,699 |
| 100 | 35,726 | 7,497 | 4,881 | 2,304 | 4,116 | 1,236 | 5,932 | 2,093 |
| Building never open/electricity not used | 3,603 | N | 793 | Q | Q | Q | N | Q |
| **Percent lit during off hours** | | | | | | | | |
| Zero | 24,746 | 4,290 | 5,462 | 2,074 | 1,415 | 2,515 | 3,764 | 2,114 |
| 1 to 50 | 50,753 | 10,621 | 6,116 | 2,157 | 8,677 | 2,034 | 8,106 | 2,704 |
| 51 to 100 | 6,926 | 827 | 519 | Q | 603 | Q | 354 | 644 |
| Building always open with no "off hours" | 2,443 | Q | Q | Q | Q | N | Q | Q |
| Electricity not used | 2,225 | N | 509 | Q | Q | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | | |
| Heat pumps | 11,846 | 2,667 | 1,138 | 356 | 1,419 | 581 | 2,209 | 727 |
| Furnaces | 8,654 | 1,691 | 1,294 | 497 | 1,423 | 927 | 564 | 582 |
| Individual space heaters | 20,766 | 3,727 | 3,480 | 1,919 | 2,568 | 859 | 1,750 | 1,560 |
| District heat | 5,925 | 1,794 | Q | Q | Q | N | 1,155 | 888 |
| Boilers | 22,443 | 4,650 | 841 | 433 | 1,138 | 1,359 | 6,637 | 1,621 |
| Packaged heating units | 49,188 | 8,407 | 7,297 | 2,498 | 9,434 | 2,801 | 6,107 | 3,016 |
| Other | 1,574 | Q | Q | Q | 872 | Q | Q | Q |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Cooling equipment (more than one may apply)** | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 2,270 | 2,567 | 1,143 | 2,510 | 1,632 | 912 | 948 |
| Heat pumps | 12,538 | 2,913 | 1,216 | 414 | 1,716 | 714 | 2,304 | 661 |
| Individual air conditioners | 12,420 | 2,184 | 1,566 | 701 | 763 | 712 | 2,074 | 628 |
| District chilled water | 4,608 | 1,096 | N | N | N | Q | 1,292 | 880 |
| Central chillers | 17,041 | 5,050 | 465 | Q | 419 | Q | 4,127 | 1,038 |
| Packaged air conditioning units | 45,153 | 7,993 | 6,472 | 1,854 | 9,094 | 2,229 | 5,934 | 2,672 |
| Swamp coolers | 1,918 | Q | Q | Q | 415 | Q | Q | Q |
| Other | 328 | Q | Q | Q | N | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | |
| Heating | 27,558 | 5,774 | 3,135 | 1,499 | 4,000 | 1,518 | 4,341 | 1,609 |
| Cooling | 30,702 | 6,682 | 3,284 | 1,433 | 4,343 | 1,627 | 4,677 | 1,748 |
| **Water-heating equipment** | | | | | | | | |
| Centralized system | 47,534 | 8,724 | 5,204 | 2,695 | 4,705 | 2,850 | 7,580 | 3,389 |
| Distributed system | 12,688 | 2,934 | 3,449 | 669 | 1,492 | 711 | 1,269 | 514 |
| Combination of centralized and distributed system | 18,793 | 4,006 | 1,388 | Q | 4,763 | 776 | 3,057 | 1,415 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | |
| Incandescent | 38,406 | 7,541 | 3,094 | 1,026 | 6,646 | 3,015 | 5,004 | 3,035 |
| Standard fluorescent | 80,081 | 15,547 | 11,280 | 4,142 | 10,714 | 4,293 | 12,180 | 5,208 |
| Compact fluorescent | 53,816 | 11,438 | 4,040 | 1,569 | 8,053 | 3,187 | 8,559 | 4,125 |
| High-intensity discharge (HID) | 23,396 | 3,858 | 2,934 | 980 | 3,959 | 839 | 4,376 | 1,922 |
| Halogen | 28,059 | 5,598 | 2,438 | 1,024 | 5,925 | 1,540 | 3,069 | 2,172 |
| LED | 22,071 | 5,034 | 998 | Q | 5,118 | 902 | 2,135 | 1,955 |
| Other | 446 | Q | N | N | Q | N | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | |
| Any refrigeration | 73,645 | 13,979 | 8,584 | 3,626 | 10,328 | 4,243 | 11,319 | 4,956 |
| Walk-in units | 28,361 | 3,419 | 848 | Q | 6,088 | Q | 7,060 | 1,545 |
| Cases or cabinets | 28,719 | 3,969 | 1,027 | Q | 6,876 | 837 | 5,760 | 1,758 |
| Large cold storage areas | 4,171 | Q | 883 | N | 1,200 | Q | Q | Q |
| Commercial ice makers | 32,734 | 5,458 | 1,695 | Q | 5,554 | 1,064 | 6,152 | 2,189 |
| Residential-type or compact units | 62,381 | 12,888 | 7,545 | 3,145 | 8,831 | 3,789 | 8,956 | 4,309 |
| Vending machines | 43,936 | 8,853 | 4,998 | 1,710 | 7,074 | 449 | 7,666 | 2,714 |
| No refrigeration | 13,448 | 1,973 | 4,493 | 1,005 | 1,002 | 314 | 920 | 603 |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Office equipment (more than one may apply)** | | | | | | | | |
| Desktop computers | 77,063 | 15,652 | 10,176 | 3,812 | 10,959 | 3,531 | 12,078 | 4,978 |
| With flat screen monitors | 76,160 | 15,617 | 10,042 | 3,750 | 10,841 | 3,366 | 12,060 | 4,847 |
| With multiple monitors | 30,946 | 10,183 | 3,981 | 749 | 4,226 | 900 | 3,608 | 1,787 |
| Laptop computers | 63,486 | 14,372 | 7,930 | 2,437 | 8,418 | 2,790 | 11,055 | 4,035 |
| Dedicated servers | 53,369 | 13,118 | 6,637 | 1,794 | 8,029 | 1,476 | 8,774 | 2,986 |
| Laser printers | 54,256 | 12,832 | 7,291 | 2,352 | 7,249 | 1,583 | 8,664 | 3,167 |
| Inkjet printers | 36,235 | 6,190 | 4,679 | 2,010 | 5,283 | 2,380 | 5,518 | 2,721 |
| FAX machines | 66,682 | 14,084 | 8,917 | 3,376 | 10,377 | 2,473 | 10,318 | 3,802 |
| Photocopiers | 59,277 | 13,626 | 7,276 | 1,883 | 7,938 | 3,097 | 10,526 | 3,557 |
| **Number of desktop computers** | | | | | | | | |
| None | 10,030 | 299 | 2,902 | 818 | 370 | 1,027 | 161 | 581 |
| 1 to 4 | 15,669 | 1,170 | 2,550 | 1,727 | 1,755 | 2,040 | 587 | 1,557 |
| 5 to 9 | 9,422 | 1,471 | 1,648 | 841 | 1,731 | 529 | 623 | 588 |
| 10 to 19 | 9,388 | 1,385 | 2,003 | 531 | 2,293 | Q | 563 | 424 |
| 20 to 49 | 13,094 | 2,303 | 2,320 | Q | 3,252 | Q | 1,389 | 800 |
| 50 to 99 | 8,284 | 2,073 | 918 | Q | 1,078 | Q | 2,364 | 358 |
| 100 to 249 | 9,728 | 2,276 | 648 | Q | 609 | Q | 3,487 | 599 |
| 250 or more | 11,478 | 4,973 | Q | N | Q | N | 3,065 | 652 |
| **Number of laptop computers** | | | | | | | | |
| None | 23,607 | 1,580 | 5,147 | 2,193 | 2,912 | 1,767 | 1,184 | 1,524 |
| 1 to 4 | 21,161 | 2,871 | 3,943 | 1,711 | 3,386 | 1,870 | 1,228 | 1,861 |
| 5 to 9 | 8,345 | 1,510 | 1,429 | Q | 1,896 | 549 | 951 | 434 |
| 10 to 19 | 8,343 | 1,578 | 1,136 | Q | 1,872 | Q | 1,110 | 509 |
| 20 to 49 | 9,643 | 2,458 | 1,070 | Q | 919 | Q | 2,705 | 385 |
| 50 to 99 | 5,234 | 1,416 | Q | Q | Q | Q | 1,906 | Q |
| 100 to 249 | 5,217 | 1,723 | Q | Q | Q | N | 1,907 | Q |
| 250 or more | 5,542 | 2,817 | Q | N | Q | N | 1,248 | Q |
| **Number of dedicated servers** | | | | | | | | |
| None | 33,724 | 2,834 | 6,441 | 2,836 | 3,300 | 3,081 | 3,465 | 2,573 |
| 1 to 4 | 34,097 | 5,745 | 5,189 | 1,703 | 5,539 | 1,414 | 6,085 | 1,845 |
| 5 to 9 | 6,241 | 1,712 | 879 | Q | 1,401 | Q | 995 | Q |
| 10 to 19 | 5,711 | 2,126 | Q | Q | 924 | N | 975 | Q |
| 20 to 49 | 3,758 | 1,756 | Q | Q | Q | N | 513 | 332 |
| 50 or more | 3,562 | 1,778 | Q | N | N | N | Q | Q |
| **Number of photocopiers** | | | | | | | | |
| None | 27,816 | 2,325 | 5,801 | 2,748 | 3,392 | 1,460 | 1,712 | 2,002 |
| One | 17,080 | 1,756 | 2,819 | 979 | 3,252 | 1,850 | 1,590 | 1,201 |
| 2 to 4 | 20,312 | 3,873 | 3,099 | 573 | 2,752 | 1,146 | 5,157 | 939 |
| 5 to 9 | 8,863 | 2,242 | 967 | Q | 1,483 | Q | 2,446 | 486 |
| 10 or more | 13,022 | 5,755 | Q | Q | 451 | Q | 1,333 | 931 |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Number of TVs or video displays** | | | | | | | | |
| None | 24,339 | 3,231 | 7,446 | 1,890 | 1,733 | 1,241 | 2,280 | 1,087 |
| One | 9,990 | 1,871 | 1,866 | 1,157 | 1,311 | 1,001 | 746 | 506 |
| 2 to 4 | 16,465 | 3,294 | 2,680 | 1,129 | 2,152 | 1,384 | 1,922 | 1,515 |
| 5 to 9 | 8,148 | 2,389 | 622 | Q | 1,203 | 515 | 1,211 | 605 |
| 10 to 19 | 8,168 | 2,084 | Q | Q | 1,609 | Q | 1,909 | 417 |
| 20 to 49 | 8,058 | 1,404 | Q | N | 2,512 | Q | 2,261 | 553 |
| 50 to 99 | 4,378 | 659 | Q | N | 657 | N | 1,409 | Q |
| 100 or more | 7,547 | 1,019 | Q | N | Q | N | Q | 535 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | |
| Snack bar or concession stand | 9,884 | 1,298 | Q | Q | 1,715 | Q | 2,528 | 1,421 |
| Fast food or small restaurant | 9,787 | 1,447 | Q | Q | 4,977 | N | Q | 754 |
| Cafeteria or large restaurant | 15,222 | 2,575 | Q | N | 1,245 | Q | 6,511 | 533 |
| Commercial kitchen/ food preparation area | 16,150 | 1,197 | Q | Q | 2,021 | 1,103 | 4,816 | 1,074 |
| Small kitchen area | 14,054 | 1,994 | 490 | 295 | 1,592 | 2,345 | 2,077 | 1,576 |
| **Separate computer areas (more than one may apply)** | | | | | | | | |
| Data center or server farm | 11,105 | 4,531 | 919 | Q | Q | Q | 1,900 | 691 |
| Computer-based training room | 17,723 | 3,988 | 869 | Q | 2,527 | Q | 5,956 | 899 |
| Student or public computer center | 14,341 | 693 | Q | Q | 1,230 | Q | 8,374 | 904 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | |
| Economizer cycle | 30,749 | 7,386 | 2,278 | 536 | 4,679 | 560 | 6,261 | 2,322 |
| Regular HVAC maintenance | 69,244 | 14,341 | 8,172 | 2,895 | 9,752 | 3,195 | 11,572 | 4,621 |
| Building automation system (BAS)[2] | 37,051 | 8,284 | 1,637 | 602 | 6,262 | 1,063 | 8,736 | 2,643 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | |
| Multipaned windows | 60,362 | 11,693 | 7,350 | 2,517 | 8,908 | 3,023 | 9,139 | 3,653 |
| Tinted window glass | 45,025 | 9,863 | 5,313 | 1,903 | 7,446 | 1,880 | 6,064 | 2,745 |
| Reflective window glass | 15,908 | 3,795 | 1,606 | 653 | 3,214 | 658 | 1,826 | 885 |
| External overhangs or awnings | 32,188 | 5,382 | 3,470 | 1,158 | 7,794 | 1,350 | 3,860 | 2,380 |
| Skylights or atriums | 22,261 | 3,725 | 3,776 | 593 | 3,592 | 728 | 3,914 | 1,690 |
| Light scheduling | 30,263 | 6,665 | 2,373 | 760 | 7,976 | 709 | 3,731 | 2,154 |
| Occupancy sensors | 35,871 | 8,606 | 4,273 | 837 | 6,082 | 639 | 6,278 | 2,381 |
| Multi-level lighting or dimming | 14,534 | 2,686 | 435 | Q | 3,971 | 859 | 1,934 | 1,222 |
| Daylight harvesting | 6,114 | 1,385 | 602 | Q | 1,806 | Q | 631 | 431 |
| Demand responsive lighting | 4,738 | 432 | 551 | Q | 2,389 | Q | 318 | Q |
| Building automation system (BAS) for lighting[2] | 12,068 | 2,643 | 561 | Q | 4,744 | Q | 1,505 | 812 |

## Table B12. Selected principal building activity: part 1, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | | |
| | All buildings | Office | Warehouse and storage | Service | Mercantile | Religious worship | Education | Public assembly |
| **All buildings** | 87,093 | 15,952 | 13,077 | 4,630 | 11,330 | 4,557 | 12,239 | 5,559 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | |
| Heating | 63,167 | 13,273 | 7,047 | 3,228 | 9,624 | 4,082 | 11,092 | 4,175 |
| Cooling | 62,516 | 13,422 | 7,012 | 3,019 | 10,129 | 3,843 | 10,556 | 4,053 |
| Lighting | 78,594 | 15,543 | 11,140 | 4,234 | 10,566 | 4,482 | 12,124 | 5,327 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 10,000 | 4,007 | 356 | 154 | 62 | N | 113 | 61 |
| 10,001 to 100,000 | 1,415 | 24 | 22 | 84 | 5 | 32 | 20 |
| Over 100,000 | 136 | N | Q | 12 | 5 | 2 | 2 |
| **Year constructed** | | | | | | | |
| Before 1946 | 850 | 70 | Q | 16 | Q | Q | Q |
| 1946 to 1979 | 1,922 | 125 | 59 | 68 | 5 | 53 | 26 |
| 1980 to 1999 | 1,760 | 119 | 70 | 49 | 2 | 53 | 31 |
| 2000 to 2012 | 1,025 | 65 | 33 | 25 | 2 | 26 | 23 |
| **Census region** | | | | | | | |
| Northeast | 805 | 62 | 27 | 27 | 2 | 21 | 14 |
| Midwest | 1,237 | 77 | 34 | 23 | 2 | 42 | 19 |
| South | 2,247 | 160 | 81 | 69 | 4 | 50 | 39 |
| West | 1,267 | 80 | 35 | 38 | 2 | 35 | Q |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 2,031 | 128 | 64 | 50 | 3 | 60 | 25 |
| Mixed-humid | 1,743 | 141 | 61 | 48 | 2 | 39 | 31 |
| Mixed-dry/Hot-dry | 837 | 51 | Q | 27 | Q | 17 | Q |
| Hot-humid | 799 | 49 | 33 | 31 | 3 | 28 | Q |
| Marine | 147 | Q | Q | Q | Q | Q | Q |
| **Number of floors** | | | | | | | |
| One | 3,836 | 284 | 140 | 49 | Q | 89 | 59 |
| Two | 1,158 | 60 | 23 | 53 | Q | 46 | 17 |
| Three | 374 | 29 | Q | 23 | 1 | Q | Q |
| Four to nine | 177 | Q | N | 30 | 4 | 2 | Q |
| Ten or more | 13 | N | N | 3 | 1 | Q | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | |
| Any elevators | 405 | Q | Q | 46 | 7 | 22 | 9 |
| Number of elevators | | | | | | | |
| One | 272 | Q | Q | 25 | Q | 16 | Q |
| Two to five | 118 | Q | N | 18 | 3 | 5 | Q |
| Six or more | 16 | N | N | 2 | 3 | 1 | Q |
| Any escalators | 10 | N | Q | 1 | (*) | Q | Q |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 10 | 3,977 | 255 | 150 | 102 | N | 80 | 40 |
| 10 to 99 | 1,450 | 123 | 26 | 50 | Q | 60 | 42 |
| 100 or more | 131 | Q | Q | 6 | 6 | 8 | 2 |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Weekly operating hours** | | | | | | | |
| Fewer than 49 | 2,495 | 58 | Q | Q | N | 79 | 28 |
| 49 to 84 | 2,008 | 166 | 31 | N | N | 61 | Q |
| 85 to 167 | 479 | 131 | 94 | Q | N | Q | N |
| Open continuously | 575 | 24 | 49 | 153 | 10 | Q | 54 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 4,781 | 364 | 177 | 151 | 7 | 138 | Q |
| Owner occupied | 2,466 | 202 | 93 | 119 | 5 | 74 | Q |
| Leased to tenant(s) | 1,745 | 157 | 69 | 29 | Q | 43 | Q |
| Owner occupied and leased | 349 | Q | Q | 3 | 1 | 21 | Q |
| Unoccupied | 221 | N | N | N | N | N | N |
| Government owned | 776 | Q | N | 7 | 2 | 9 | 70 |
| Federal | 33 | N | N | N | (*) | Q | Q |
| State | 185 | Q | N | Q | Q | Q | Q |
| Local | 558 | Q | N | Q | 2 | Q | 64 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | |
| Building owner | 4,715 | 292 | 129 | 153 | 9 | 129 | 76 |
| Business owner or tenant | 724 | 75 | 44 | Q | Q | Q | Q |
| Property management | 54 | Q | Q | Q | Q | Q | N |
| Other | 64 | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | |
| Building owner | 4,876 | 302 | 135 | 154 | 9 | 131 | 75 |
| Business owner or tenant | 540 | 59 | 36 | Q | Q | Q | Q |
| Property management | 35 | Q | Q | Q | Q | Q | N |
| Other | 106 | Q | Q | Q | Q | Q | Q |
| **Number of establishments** | | | | | | | |
| One | 4,205 | 346 | 150 | 146 | 8 | 105 | 70 |
| 2 to 5 | 862 | 33 | 27 | 12 | 2 | 37 | 14 |
| 6 to 10 | 147 | Q | Q | Q | Q | Q | N |
| 11 to 20 | 68 | N | N | Q | Q | Q | N |
| More than 20 | 27 | N | N | Q | Q | Q | N |
| Currently unoccupied | 248 | N | N | N | N | N | N |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Campus or complex activity** | | | | | | | |
| Not part of a campus or complex | 3,683 | 315 | 164 | 69 | 4 | 105 | 65 |
| Primary or secondary school | 237 | Q | N | Q | N | N | N |
| College or university | 84 | Q | N | 15 | Q | Q | Q |
| Office complex | 154 | Q | N | N | N | Q | Q |
| Retail complex | 258 | 28 | Q | Q | N | Q | N |
| Storage complex | 314 | Q | N | N | N | N | N |
| Religious campus or complex | 197 | Q | N | Q | N | N | N |
| Health care complex | 52 | Q | N | 7 | 5 | 19 | N |
| Lodging or resort complex | 65 | Q | N | 48 | N | N | N |
| Transportation complex | 35 | N | N | N | N | N | N |
| Government complex | 104 | N | N | Q | N | Q | Q |
| Other | 371 | Q | Q | Q | Q | Q | Q |
| **Predominant exterior wall material** | | | | | | | |
| Brick, stone, or stucco | 2,312 | 202 | 69 | 91 | 5 | 87 | 43 |
| Concrete (block or poured) | 1,121 | 72 | 44 | 28 | 2 | 25 | 18 |
| Concrete panels | 210 | Q | Q | 4 | 1 | Q | Q |
| Siding or shingles | 905 | 76 | 37 | 31 | Q | 23 | Q |
| Metal panels | 933 | Q | Q | Q | Q | Q | Q |
| Window glass | 17 | Q | Q | Q | Q | Q | N |
| Other | 37 | Q | Q | Q | Q | Q | N |
| No one major type | 21 | N | Q | Q | Q | N | N |
| **Predominant roof material** | | | | | | | |
| Metal surfacing | 1,672 | 71 | 48 | 23 | Q | 22 | 33 |
| Synthetic or rubber | 911 | 75 | 40 | 25 | 4 | 26 | 7 |
| Built-up | 836 | 63 | Q | 15 | 3 | 25 | 10 |
| Slate or tile shingles | 406 | 36 | Q | 21 | Q | Q | Q |
| Wooden materials (including shingles) | 157 | Q | Q | Q | Q | Q | Q |
| Asphalt, fiberglass, or other shingles | 1,483 | 110 | 39 | 66 | 1 | 55 | 25 |
| Concrete | 51 | Q | Q | Q | Q | Q | Q |
| Other | 24 | Q | N | Q | N | Q | N |
| No one major type | 18 | Q | Q | Q | Q | N | Q |
| **Roof characteristics** | | | | | | | |
| Roof tilt | | | | | | | |
| Flat | 1,960 | 171 | 80 | 57 | 8 | 60 | 23 |
| Shallow pitch | 2,148 | 125 | 73 | 38 | Q | 51 | Q |
| Steeper pitch | 1,449 | 84 | Q | 63 | Q | 36 | 37 |
| Cool roof | 740 | 49 | 25 | 20 | 4 | 13 | 10 |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | |
| Any type of renovation | 2,094 | 155 | 65 | 80 | 7 | 82 | 35 |
| Addition or annex | 444 | 33 | Q | 17 | 5 | 15 | Q |
| Reduction in floorspace | 71 | Q | Q | Q | (*) | Q | Q |
| Roof replacement | 987 | 64 | Q | 40 | 3 | 28 | 21 |
| Exterior wall replacement | 194 | Q | Q | 10 | 1 | Q | Q |
| Interior wall reconfiguration | 889 | 70 | Q | 32 | 3 | 53 | 13 |
| Window replacement | 560 | 48 | Q | 29 | 2 | 18 | Q |
| HVAC equipment upgrade | 1,101 | 83 | 28 | 39 | 5 | 47 | 11 |
| Lighting upgrade | 982 | 78 | 44 | 42 | 4 | 36 | 12 |
| Electrical upgrade | 747 | 70 | Q | 29 | 4 | 29 | Q |
| Plumbing system upgrade | 644 | 74 | Q | 40 | 3 | 29 | Q |
| Insulation upgrade | 382 | 34 | Q | 14 | 1 | Q | Q |
| Fire, safety, or security upgrade | 616 | 62 | Q | 36 | 4 | 22 | Q |
| Structural upgrade | 152 | 21 | Q | Q | (*) | Q | Q |
| Other | 39 | N | N | Q | Q | Q | Q |
| No renovations | 3,160 | 201 | 98 | 70 | 2 | 57 | 43 |
| Buildings constructed 2008 or later | 303 | Q | Q | 9 | 1 | Q | Q |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 5,234 | 380 | 177 | 158 | 10 | 147 | 84 |
| Natural gas | 2,933 | 283 | 82 | 99 | 8 | 87 | 53 |
| Fuel oil | 467 | Q | Q | 28 | 9 | 15 | 34 |
| District heat | 48 | Q | N | 4 | 1 | Q | Q |
| District chilled water | 54 | Q | N | Q | 1 | Q | Q |
| Propane | 510 | 47 | Q | 26 | 2 | Q | Q |
| Other | 172 | Q | Q | Q | Q | Q | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 2,858 | 202 | 123 | 116 | 4 | 87 | 44 |
| Natural gas | 2,612 | 207 | 63 | 64 | 5 | 80 | 47 |
| Fuel oil | 270 | Q | Q | Q | 2 | Q | Q |
| District heat | 48 | Q | N | 4 | 1 | Q | Q |
| Propane | 342 | 25 | Q | Q | Q | Q | Q |
| Other | 101 | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | |
| Electricity | 1,819 | 146 | 88 | 93 | Q | 58 | Q |
| Natural gas | 2,322 | 183 | 56 | 45 | 5 | 77 | 45 |
| Fuel oil | 205 | Q | Q | Q | Q | Q | Q |
| District heat | 47 | Q | N | 4 | 1 | Q | Q |
| Propane | 261 | Q | Q | Q | N | Q | Q |
| Other | 67 | Q | Q | Q | Q | Q | Q |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Cooling energy sources (more than one may apply)** | | | | | | | |
| Electricity | 4,413 | 356 | 165 | 142 | 9 | 143 | 74 |
| Natural gas | 12 | N | N | Q | (*) | Q | Q |
| District chilled water | 54 | Q | N | Q | 1 | Q | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 2,658 | 155 | 115 | 55 | 2 | 90 | 46 |
| Natural gas | 1,758 | 216 | 59 | 91 | 7 | 58 | 28 |
| Fuel oil | 77 | Q | Q | Q | 1 | Q | Q |
| District heat | 25 | Q | N | 3 | 1 | Q | Q |
| Propane | 142 | 27 | Q | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | |
| Electricity | 1,010 | 183 | 79 | 52 | 5 | 13 | 38 |
| Natural gas | 740 | 246 | 38 | 49 | 7 | Q | 16 |
| Propane | 144 | 40 | Q | 14 | Q | Q | Q |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 4,722 | 359 | 160 | 153 | 9 | 144 | 81 |
| Buildings with cooling | 4,461 | 358 | 165 | 145 | 10 | 145 | 74 |
| Buildings with water heating | 4,423 | 379 | 177 | 158 | 10 | 146 | 80 |
| Buildings with cooking | 1,589 | 353 | 111 | 94 | 9 | 13 | 56 |
| Buildings with manufacturing | 259 | Q | Q | Q | Q | Q | N |
| Buildings with electricity generation | 410 | Q | 16 | 34 | 9 | 19 | 59 |
| **Percent of floorspace heated** | | | | | | | |
| Not heated | 835 | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 697 | 37 | Q | Q | Q | Q | Q |
| 51 to 99 | 727 | 63 | 46 | 15 | 1 | 12 | Q |
| 100 | 3,298 | 260 | 105 | 128 | 8 | 121 | 66 |
| **Percent of floorspace cooled** | | | | | | | |
| Not cooled | 1,096 | Q | Q | Q | N | Q | Q |
| 1 to 50 | 1,173 | 41 | Q | 11 | Q | Q | 32 |
| 51 to 99 | 897 | 85 | 46 | 37 | 2 | 29 | 16 |
| 100 | 2,391 | 233 | 99 | 97 | 7 | 107 | 26 |
| **Percent lit when open** | | | | | | | |
| Zero | 70 | N | N | Q | N | N | N |
| 1 to 50 | 1,099 | 57 | Q | 51 | Q | Q | Q |
| 51 to 99 | 1,666 | 104 | 54 | 47 | 3 | 65 | 24 |
| 100 | 2,222 | 219 | 104 | 60 | 7 | 67 | 32 |
| Building never open/electricity not used | 501 | N | N | N | N | N | Q |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Percent lit during off hours** | | | | | | | |
| Zero | 2,489 | 136 | Q | Q | Q | 67 | Q |
| 1 to 50 | 2,441 | 214 | 99 | 91 | 6 | 79 | 46 |
| 51 to 100 | 202 | 26 | 28 | 35 | 3 | Q | Q |
| Building always open with no "off hours" | 102 | Q | Q | 16 | 1 | N | Q |
| Electricity not used | 323 | N | N | N | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | |
| Heat pumps | 628 | 32 | Q | 39 | 2 | 21 | Q |
| Furnaces | 755 | 53 | Q | 21 | (*) | 22 | Q |
| Individual space heaters | 1,247 | 52 | 31 | 60 | 2 | 29 | 24 |
| District heat | 48 | Q | N | 4 | 1 | Q | Q |
| Boilers | 544 | 23 | Q | 38 | 6 | 17 | 14 |
| Packaged heating units | 2,802 | 251 | 111 | 55 | 5 | 97 | 43 |
| Other | 62 | Q | Q | Q | Q | N | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | |
| Residential-type central air conditioners | 1,546 | 110 | 64 | 34 | Q | 57 | 23 |
| Heat pumps | 692 | 37 | Q | 36 | 2 | 26 | Q |
| Individual air conditioners | 709 | 48 | Q | 71 | 2 | Q | Q |
| District chilled water | 54 | Q | N | Q | 1 | Q | Q |
| Central chillers | 163 | Q | Q | 11 | 6 | 10 | 4 |
| Packaged air conditioning units | 1,909 | 188 | 76 | 40 | 6 | 66 | 32 |
| Swamp coolers | 109 | 21 | Q | Q | Q | Q | Q |
| Other | Q | N | N | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | |
| Heating | 1,874 | 156 | 44 | 74 | 4 | 57 | 25 |
| Cooling | 1,971 | 172 | 57 | 80 | 5 | 70 | 26 |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 3,348 | 307 | 155 | 132 | 6 | 118 | 72 |
| Distributed system | 690 | 33 | Q | 7 | Q | 21 | Q |
| Combination of centralized and distributed system | 385 | 39 | Q | 19 | 2 | Q | Q |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Lighting equipment types (more than one may apply)** | | | | | | | |
| Incandescent | 1,826 | 174 | 49 | 68 | 7 | 62 | 22 |
| Standard fluorescent | 4,649 | 352 | 169 | 125 | 10 | 139 | 72 |
| Compact fluorescent | 2,302 | 237 | 69 | 132 | 9 | 80 | 37 |
| High-intensity discharge (HID) | 525 | 17 | Q | 18 | 4 | 11 | 8 |
| Halogen | 905 | 91 | 23 | 37 | 4 | 33 | 10 |
| LED | 473 | 42 | 27 | 23 | 4 | 13 | Q |
| Other | 10 | Q | N | Q | Q | N | N |
| **Refrigeration equipment (more than one may apply)** | | | | | | | |
| Any refrigeration | 3,984 | 380 | 175 | 144 | 10 | 132 | 78 |
| Walk-in units | 811 | 293 | 145 | 37 | 8 | Q | Q |
| Cases or cabinets | 915 | 260 | 140 | 34 | 6 | 11 | Q |
| Large cold storage areas | 78 | Q | 19 | Q | 1 | Q | Q |
| Commercial ice makers | 846 | 259 | 85 | 61 | 9 | 9 | 21 |
| Residential-type or compact units | 3,388 | 201 | 58 | 126 | 9 | 131 | 71 |
| Vending machines | 960 | 42 | 44 | 68 | 9 | 27 | 24 |
| No refrigeration | 1,573 | N | Q | Q | N | Q | Q |
| **Office equipment (more than one may apply)** | | | | | | | |
| Desktop computers | 3,977 | 264 | 126 | 107 | 10 | 146 | 75 |
| With flat screen monitors | 3,847 | 246 | 121 | 103 | 10 | 146 | 73 |
| With multiple monitors | 911 | 42 | Q | 11 | 6 | 35 | 22 |
| Laptop computers | 2,730 | 142 | 59 | 85 | 9 | 101 | 56 |
| Dedicated servers | 1,748 | 85 | 55 | 47 | 8 | 88 | 24 |
| Laser printers | 2,339 | 108 | 73 | 66 | 8 | 103 | 36 |
| Inkjet printers | 2,187 | 180 | 59 | 55 | 5 | 75 | 44 |
| FAX machines | 3,185 | 182 | 107 | 85 | 9 | 128 | 50 |
| Photocopiers | 2,163 | 49 | 40 | 61 | 9 | 97 | 36 |
| **Number of desktop computers** | | | | | | | |
| None | 1,581 | 116 | 51 | 51 | N | Q | Q |
| 1 to 4 | 2,039 | 230 | 102 | 52 | N | 51 | 50 |
| 5 to 9 | 821 | 31 | Q | 20 | Q | 31 | Q |
| 10 to 19 | 482 | Q | Q | 11 | Q | 31 | Q |
| 20 to 49 | 355 | Q | Q | 19 | Q | 19 | Q |
| 50 to 99 | 143 | N | N | 3 | Q | 9 | Q |
| 100 to 249 | 92 | N | N | Q | 3 | 3 | Q |
| 250 or more | 44 | N | N | Q | 4 | 1 | Q |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Principal building activity | | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Number of laptop computers** | | | | | | | |
| None | 2,827 | 238 | 118 | 73 | Q | 46 | 27 |
| 1 to 4 | 1,944 | 132 | 56 | 44 | Q | 59 | 42 |
| 5 to 9 | 350 | Q | Q | 13 | Q | 22 | Q |
| 10 to 19 | 181 | Q | N | 7 | 2 | 13 | Q |
| 20 to 49 | 144 | N | N | 7 | 1 | 4 | Q |
| 50 to 99 | 58 | N | N | Q | 1 | Q | Q |
| 100 to 249 | 35 | N | N | Q | 1 | Q | Q |
| 250 or more | 20 | N | N | Q | 1 | Q | Q |
| **Number of dedicated servers** | | | | | | | |
| None | 3,809 | 294 | 121 | 111 | 1 | 59 | 60 |
| 1 to 4 | 1,562 | 82 | 55 | 44 | 3 | 82 | 19 |
| 5 to 9 | 97 | Q | N | Q | 1 | Q | Q |
| 10 to 19 | 50 | N | N | Q | 1 | Q | Q |
| 20 to 49 | 25 | N | N | Q | 1 | Q | Q |
| 50 or more | 13 | N | N | Q | 2 | Q | Q |
| **Number of photocopiers** | | | | | | | |
| None | 3,394 | 331 | 137 | 97 | Q | 50 | 48 |
| One | 1,325 | 42 | 35 | 35 | Q | 55 | 24 |
| 2 to 4 | 648 | Q | Q | 22 | Q | 33 | Q |
| 5 to 9 | 116 | N | Q | 2 | 2 | Q | Q |
| 10 or more | 75 | N | N | 1 | 5 | 6 | 4 |
| **Number of TVs or video displays** | | | | | | | |
| None | 2,718 | 111 | 80 | Q | Q | 42 | Q |
| One | 1,145 | 78 | 50 | Q | N | 33 | Q |
| 2 to 4 | 1,035 | 114 | 35 | 16 | Q | 48 | 30 |
| 5 to 9 | 314 | 56 | Q | Q | Q | 18 | Q |
| 10 to 19 | 154 | 16 | Q | 16 | Q | Q | Q |
| 20 to 49 | 106 | Q | Q | 27 | 1 | 2 | Q |
| 50 to 99 | 48 | Q | N | 25 | 3 | Q | Q |
| 100 or more | 37 | N | N | 28 | 4 | Q | Q |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 153 | N | 40 | 7 | 2 | Q | Q |
| Fast food or small restaurant | 173 | N | 41 | 6 | (*) | Q | Q |
| Cafeteria or large restaurant | 130 | N | Q | 13 | 6 | Q | Q |
| Commercial kitchen/ food preparation area | 282 | N | 18 | 46 | 5 | Q | 9 |
| Small kitchen area | 736 | N | 33 | 50 | 3 | 12 | 48 |

## Table B13. Selected principal building activity: part 2, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 5,557 | 380 | 177 | 158 | 10 | 147 | 84 |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 97 | Q | N | 2 | 4 | Q | Q |
| Computer-based training room | 244 | Q | Q | 5 | 5 | 5 | Q |
| Student or public computer center | 238 | Q | Q | 19 | 2 | Q | Q |
| **HVAC conservation features (more than one may apply)** | | | | | | | |
| Economizer cycle | 601 | 51 | Q | 19 | 6 | 23 | 12 |
| Regular HVAC maintenance | 3,178 | 260 | 115 | 110 | 9 | 104 | 55 |
| Building automation system (BAS)[2] | 781 | 38 | 29 | 19 | 7 | 33 | 13 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | |
| Multipaned windows | 3,012 | 232 | 96 | 102 | 8 | 101 | 56 |
| Tinted window glass | 1,875 | 135 | 62 | 47 | 7 | 67 | 29 |
| Reflective window glass | 549 | 33 | Q | 10 | 3 | 21 | Q |
| External overhangs or awnings | 1,867 | 198 | 86 | 62 | 4 | 65 | 13 |
| Skylights or atriums | 591 | 19 | Q | 20 | 3 | 21 | Q |
| Light scheduling | 918 | 73 | 38 | 28 | 2 | 23 | 10 |
| Occupancy sensors | 813 | 43 | 28 | 27 | 6 | 24 | 18 |
| Multi-level lighting or dimming | 349 | 58 | Q | 17 | 2 | Q | Q |
| Daylight harvesting | 125 | Q | Q | Q | 1 | Q | Q |
| Demand responsive lighting | 176 | Q | Q | Q | Q | Q | Q |
| Building automation system (BAS) for lighting[2] | 208 | Q | Q | 2 | (*) | Q | Q |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | |
| Heating | 3,699 | 286 | 80 | 75 | 4 | 120 | 44 |
| Cooling | 3,517 | 286 | 77 | 70 | 4 | 122 | 46 |
| Lighting | 4,757 | 358 | 141 | 123 | 8 | 147 | 62 |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 10,000 | 16,941 | 1,429 | 557 | 299 | N | 510 | 331 |
| 10,001 to 100,000 | 39,940 | 390 | 562 | 2,739 | 282 | 927 | 557 |
| Over 100,000 | 30,212 | N | Q | 2,788 | 2,092 | 345 | 552 |
| **Year constructed** | | | | | | | |
| Before 1946 | 10,008 | 318 | Q | 375 | Q | Q | Q |
| 1946 to 1979 | 28,589 | 592 | 393 | 1,953 | 1,191 | 416 | 452 |
| 1980 to 1999 | 29,033 | 616 | 449 | 2,244 | 518 | 681 | 600 |
| 2000 to 2012 | 19,462 | 293 | 317 | 1,253 | 603 | 550 | 252 |
| **Census region** | | | | | | | |
| Northeast | 15,534 | 292 | 316 | 1,007 | 538 | 529 | 345 |
| Midwest | 18,919 | 369 | 174 | 1,058 | 496 | 366 | 334 |
| South | 34,279 | 771 | 399 | 2,302 | 894 | 548 | 576 |
| West | 18,360 | 387 | 363 | 1,459 | 447 | 339 | Q |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 31,898 | 636 | 540 | 1,999 | 878 | 876 | 477 |
| Mixed-humid | 27,873 | 636 | 326 | 1,929 | 790 | 427 | 597 |
| Mixed-dry/Hot-dry | 12,037 | 229 | Q | 836 | 268 | 130 | Q |
| Hot-humid | 12,831 | 250 | 135 | 917 | 364 | 322 | Q |
| Marine | 2,454 | Q | Q | Q | Q | Q | Q |
| **Number of floors** | | | | | | | |
| One | 39,809 | 1,205 | 949 | 697 | Q | 627 | 509 |
| Two | 20,206 | 388 | 223 | 912 | Q | 523 | 293 |
| Three | 8,140 | 162 | Q | 817 | 104 | Q | Q |
| Four to nine | 13,535 | Q | N | 2,194 | 1,486 | 294 | Q |
| Ten or more | 5,404 | N | N | 1,206 | 534 | Q | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | |
| Any elevators | 32,120 | Q | Q | 4,145 | 2,260 | 978 | 755 |
| Number of elevators | | | | | | | |
| One | 11,158 | Q | Q | 1,021 | Q | 382 | Q |
| Two to five | 12,817 | Q | N | 1,921 | 430 | 356 | Q |
| Six or more | 8,145 | N | N | 1,203 | 1,775 | 240 | Q |
| Any escalators | 3,654 | N | Q | 720 | 141 | Q | Q |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 10 | 26,724 | 941 | 583 | 1,515 | N | 357 | 277 |
| 10 to 99 | 37,613 | 820 | 632 | 2,848 | Q | 812 | 709 |
| 100 or more | 22,756 | Q | Q | 1,463 | 2,210 | 612 | 454 |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Principal building activity | | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Weekly operating hours** | | | | | | | |
| Fewer than 49 | 24,049 | 284 | Q | Q | N | 469 | 219 |
| 49 to 84 | 36,396 | 783 | 245 | N | N | 1,084 | Q |
| 85 to 167 | 9,395 | 640 | 702 | Q | N | Q | N |
| Open continuously | 17,253 | 113 | 281 | 5,733 | 2,374 | Q | 957 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 67,550 | 1,702 | 1,252 | 5,360 | 1,900 | 1,623 | Q |
| Owner occupied | 30,637 | 1,008 | 612 | 3,656 | 1,247 | 760 | Q |
| Leased to tenant(s) | 26,115 | 656 | 448 | 1,130 | Q | 381 | Q |
| Owner occupied and leased | 8,873 | Q | Q | 574 | 450 | 482 | Q |
| Unoccupied | 1,925 | N | N | N | N | N | N |
| Government owned | 19,543 | Q | N | 466 | 475 | 158 | 1,274 |
| Federal | 1,573 | N | N | N | 104 | Q | Q |
| State | 5,539 | Q | N | Q | 156 | Q | Q |
| Local | 12,431 | Q | N | Q | 214 | Q | 1,019 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | |
| Building owner | 73,702 | 1,409 | 849 | 5,292 | 2,198 | 1,632 | 1,394 |
| Business owner or tenant | 11,309 | 352 | 354 | Q | Q | Q | Q |
| Property management | 1,250 | Q | Q | Q | Q | Q | N |
| Other | 832 | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | |
| Building owner | 76,271 | 1,469 | 881 | 5,447 | 2,185 | 1,617 | 1,355 |
| Business owner or tenant | 8,256 | 275 | 316 | Q | Q | Q | Q |
| Property management | 880 | Q | Q | Q | Q | Q | N |
| Other | 1,686 | Q | Q | Q | Q | Q | Q |
| **Number of establishments** | | | | | | | |
| One | 54,994 | 1,570 | 942 | 4,778 | 1,603 | 917 | 927 |
| 2 to 5 | 17,756 | 249 | 292 | 947 | 546 | 609 | 512 |
| 6 to 10 | 4,425 | Q | Q | Q | Q | Q | N |
| 11 to 20 | 3,704 | N | N | Q | Q | Q | N |
| More than 20 | 3,821 | N | N | Q | Q | Q | N |
| Currently unoccupied | 2,393 | N | N | N | N | N | N |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Campus or complex activity** | | | | | | | |
| Not part of a campus or complex | 52,275 | 1,418 | 1,121 | 3,196 | 528 | 1,163 | 762 |
| Primary or secondary school | 4,616 | Q | N | Q | N | N | N |
| College or university | 4,068 | Q | N | 637 | Q | Q | Q |
| Office complex | 3,456 | Q | N | N | N | Q | Q |
| Retail complex | 5,159 | 170 | Q | Q | N | Q | N |
| Storage complex | 3,212 | Q | N | N | N | N | N |
| Religious campus or complex | 1,932 | Q | N | Q | N | N | N |
| Health care complex | 3,362 | Q | N | 529 | 1,811 | 450 | N |
| Lodging or resort complex | 1,295 | Q | N | 1,156 | N | N | N |
| Transportation complex | 554 | N | N | N | N | N | N |
| Government complex | 2,107 | N | N | Q | N | Q | Q |
| Other | 5,057 | Q | Q | Q | Q | Q | Q |
| **Predominant exterior wall material** | | | | | | | |
| Brick, stone, or stucco | 40,463 | 1,021 | 383 | 3,349 | 1,410 | 1,075 | 695 |
| Concrete (block or poured) | 20,726 | 335 | 505 | 1,318 | 417 | 250 | 434 |
| Concrete panels | 8,693 | Q | Q | 608 | 316 | Q | Q |
| Siding or shingles | 5,750 | 347 | 153 | 429 | Q | 198 | Q |
| Metal panels | 8,673 | Q | Q | Q | Q | Q | Q |
| Window glass | 1,340 | Q | Q | Q | Q | Q | N |
| Other | 856 | Q | Q | Q | Q | Q | N |
| No one major type | 592 | N | Q | Q | Q | N | N |
| **Predominant roof material** | | | | | | | |
| Metal surfacing | 15,916 | 368 | 323 | 348 | Q | 177 | 222 |
| Synthetic or rubber | 25,817 | 372 | 315 | 1,744 | 1,044 | 705 | 191 |
| Built-up | 21,835 | 275 | Q | 1,006 | 970 | 420 | 525 |
| Slate or tile shingles | 4,306 | 212 | Q | 588 | Q | Q | Q |
| Wooden materials (including shingles) | 1,139 | Q | Q | Q | Q | Q | Q |
| Asphalt, fiberglass, or other shingles | 15,104 | 480 | 250 | 1,913 | 204 | 376 | 301 |
| Concrete | 1,642 | Q | Q | Q | Q | Q | Q |
| Other | 678 | Q | N | Q | N | Q | N |
| No one major type | 657 | Q | Q | Q | Q | N | Q |
| **Roof characteristics** | | | | | | | |
| Roof tilt | | | | | | | |
| Flat | 49,623 | 770 | 660 | 3,107 | 2,205 | 1,142 | 838 |
| Shallow pitch | 23,853 | 612 | 513 | 822 | Q | 368 | Q |
| Steeper pitch | 13,617 | 438 | Q | 1,897 | Q | 271 | 345 |
| Cool roof | 19,630 | 237 | 235 | 1,280 | 946 | 287 | 347 |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | |
| Any type of renovation | 42,216 | 815 | 456 | 3,049 | 1,838 | 907 | 616 |
| Addition or annex | 13,022 | 186 | Q | 1,011 | 1,285 | 179 | Q |
| Reduction in floorspace | 1,753 | Q | Q | Q | 180 | Q | Q |
| Roof replacement | 20,917 | 352 | Q | 1,573 | 1,167 | 327 | 322 |
| Exterior wall replacement | 4,230 | Q | Q | 246 | 251 | Q | Q |
| Interior wall reconfiguration | 21,340 | 400 | Q | 1,099 | 1,366 | 611 | 337 |
| Window replacement | 12,265 | 249 | Q | 1,040 | 624 | 230 | Q |
| HVAC equipment upgrade | 26,779 | 450 | 213 | 1,947 | 1,502 | 547 | 346 |
| Lighting upgrade | 25,503 | 450 | 363 | 1,790 | 1,467 | 452 | 286 |
| Electrical upgrade | 16,160 | 394 | Q | 1,035 | 1,131 | 248 | Q |
| Plumbing system upgrade | 13,828 | 424 | Q | 1,340 | 881 | 219 | Q |
| Insulation upgrade | 7,607 | 201 | Q | 622 | 505 | Q | Q |
| Fire, safety, or security upgrade | 17,196 | 362 | Q | 1,538 | 1,309 | 259 | Q |
| Structural upgrade | 3,913 | 127 | Q | Q | 252 | Q | Q |
| Other | 848 | N | N | Q | Q | Q | Q |
| No renovations | 39,154 | 891 | 728 | 2,374 | 244 | 622 | 758 |
| Buildings constructed 2008 or later | 5,723 | Q | Q | 403 | 292 | Q | Q |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 84,869 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| Natural gas | 58,725 | 1,394 | 846 | 4,918 | 2,113 | 1,179 | 1,007 |
| Fuel oil | 20,200 | Q | Q | 2,051 | 2,257 | 520 | 908 |
| District heat | 5,964 | Q | N | 630 | 576 | Q | Q |
| District chilled water | 4,608 | Q | N | Q | 477 | Q | Q |
| Propane | 7,706 | 237 | Q | 883 | 225 | Q | Q |
| Other | 3,826 | Q | Q | Q | Q | Q | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 49,030 | 1,017 | 883 | 3,878 | 1,008 | 1,076 | 643 |
| Natural gas | 49,511 | 1,023 | 667 | 3,153 | 1,627 | 989 | 851 |
| Fuel oil | 4,351 | Q | Q | Q | 430 | Q | Q |
| District heat | 5,925 | Q | N | 621 | 563 | Q | Q |
| Propane | 3,067 | 124 | Q | Q | Q | Q | Q |
| Other | 1,010 | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | |
| Electricity | 26,205 | 695 | 461 | 2,814 | 160 | 658 | Q |
| Natural gas | 42,988 | 892 | 630 | 2,086 | 1,517 | 900 | 747 |
| Fuel oil | 2,542 | Q | Q | Q | Q | Q | Q |
| District heat | 5,797 | Q | N | 594 | 550 | Q | Q |
| Propane | 1,948 | Q | Q | Q | N | Q | Q |
| Other | 598 | Q | Q | Q | Q | Q | Q |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Cooling energy sources (more than one may apply)** | | | | | | | |
| Electricity | 76,034 | 1,668 | 1,190 | 5,308 | 2,227 | 1,739 | 1,358 |
| Natural gas | 732 | N | N | Q | 176 | Q | Q |
| District chilled water | 4,608 | Q | N | Q | 477 | Q | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 42,755 | 750 | 776 | 1,122 | 401 | 908 | 635 |
| Natural gas | 39,523 | 1,026 | 672 | 4,267 | 1,688 | 899 | 742 |
| Fuel oil | 1,911 | Q | Q | Q | 248 | Q | Q |
| District heat | 4,551 | Q | N | 573 | 489 | Q | Q |
| Propane | 1,575 | 135 | Q | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | |
| Electricity | 25,151 | 847 | 651 | 2,250 | 1,564 | 388 | 622 |
| Natural gas | 24,770 | 1,263 | 588 | 3,167 | 1,826 | Q | 455 |
| Propane | 2,001 | 213 | Q | 362 | Q | Q | Q |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 80,078 | 1,762 | 1,196 | 5,696 | 2,354 | 1,754 | 1,391 |
| Buildings with cooling | 79,294 | 1,712 | 1,190 | 5,700 | 2,374 | 1,774 | 1,384 |
| Buildings with water heating | 79,015 | 1,817 | 1,252 | 5,821 | 2,374 | 1,779 | 1,341 |
| Buildings with cooking | 38,546 | 1,738 | 943 | 4,293 | 2,230 | 419 | 912 |
| Buildings with manufacturing | 5,078 | Q | Q | Q | Q | Q | N |
| Buildings with electricity generation | 25,642 | Q | 394 | 2,781 | 2,266 | 688 | 1,185 |
| **Percent of floorspace heated** | | | | | | | |
| Not heated | 7,015 | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 10,130 | 185 | Q | Q | Q | Q | Q |
| 51 to 99 | 14,650 | 368 | 405 | 938 | 269 | 166 | Q |
| 100 | 55,298 | 1,209 | 743 | 4,572 | 2,069 | 1,495 | 1,200 |
| **Percent of floorspace cooled** | | | | | | | |
| Not cooled | 7,799 | Q | Q | Q | N | Q | Q |
| 1 to 50 | 18,891 | 184 | Q | 377 | Q | Q | 290 |
| 51 to 99 | 22,728 | 449 | 576 | 1,764 | 682 | 339 | 615 |
| 100 | 37,676 | 1,080 | 502 | 3,559 | 1,664 | 1,356 | 479 |
| **Percent lit when open** | | | | | | | |
| Zero | 322 | N | N | Q | N | N | N |
| 1 to 50 | 12,628 | 275 | Q | 1,059 | Q | Q | Q |
| 51 to 99 | 34,814 | 596 | 349 | 2,596 | 958 | 737 | 578 |
| 100 | 35,726 | 949 | 815 | 2,163 | 1,392 | 938 | 650 |
| Building never open/electricity not used | 3,603 | N | N | N | N | N | Q |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Percent lit during off hours** | | | | | | | |
| Zero | 24,746 | 618 | Q | Q | Q | 494 | Q |
| 1 to 50 | 50,753 | 1,055 | 654 | 3,457 | 1,151 | 1,200 | 1,075 |
| 51 to 100 | 6,926 | 127 | 407 | 1,724 | 956 | Q | Q |
| Building always open with no "off hours" | 2,443 | Q | Q | 523 | 240 | N | Q |
| Electricity not used | 2,225 | N | N | N | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | |
| Heat pumps | 11,846 | 146 | Q | 1,259 | 506 | 233 | Q |
| Furnaces | 8,654 | 266 | Q | 638 | 124 | 133 | Q |
| Individual space heaters | 20,766 | 256 | 336 | 2,168 | 501 | 466 | 253 |
| District heat | 5,925 | Q | N | 621 | 563 | Q | Q |
| Boilers | 22,443 | 145 | Q | 2,105 | 1,698 | 588 | 466 |
| Packaged heating units | 49,188 | 1,296 | 944 | 2,561 | 1,073 | 1,012 | 601 |
| Other | 1,574 | Q | Q | Q | Q | N | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | |
| Residential-type central air conditioners | 14,765 | 471 | 357 | 749 | Q | 349 | 248 |
| Heat pumps | 12,538 | 189 | Q | 1,124 | 515 | 223 | Q |
| Individual air conditioners | 12,420 | 204 | Q | 2,349 | 537 | Q | Q |
| District chilled water | 4,608 | Q | N | Q | 477 | Q | Q |
| Central chillers | 17,041 | Q | Q | 1,658 | 1,883 | 572 | 416 |
| Packaged air conditioning units | 45,153 | 954 | 748 | 2,379 | 1,385 | 989 | 804 |
| Swamp coolers | 1,918 | 85 | Q | Q | Q | Q | Q |
| Other | 328 | N | N | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | |
| Heating | 27,558 | 830 | 305 | 2,069 | 522 | 436 | 378 |
| Cooling | 30,702 | 847 | 317 | 2,581 | 912 | 563 | 435 |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 47,534 | 1,449 | 883 | 4,418 | 1,419 | 1,211 | 1,139 |
| Distributed system | 12,688 | 130 | Q | 369 | Q | 354 | Q |
| Combination of centralized and distributed system | 18,793 | 237 | Q | 1,034 | 860 | Q | Q |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Principal building activity | | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Lighting equipment types (more than one may apply)** | | | | | | | |
| Incandescent | 38,406 | 924 | 443 | 3,585 | 1,745 | 646 | 623 |
| Standard fluorescent | 80,081 | 1,671 | 1,232 | 5,409 | 2,373 | 1,701 | 1,375 |
| Compact fluorescent | 53,816 | 1,177 | 560 | 5,258 | 2,260 | 1,275 | 1,086 |
| High-intensity discharge (HID) | 23,396 | 121 | Q | 1,848 | 1,217 | 231 | 404 |
| Halogen | 28,059 | 496 | 271 | 2,696 | 1,452 | 423 | 416 |
| LED | 22,071 | 275 | 323 | 2,024 | 1,647 | 598 | 360 |
| Other | 446 | Q | N | Q | Q | N | N |
| **Refrigeration equipment (more than one may apply)** | | | | | | | |
| Any refrigeration | 73,645 | 1,819 | 1,248 | 5,713 | 2,374 | 1,686 | 1,384 |
| Walk-in units | 28,361 | 1,524 | 1,026 | 3,126 | 2,216 | Q | Q |
| Cases or cabinets | 28,719 | 1,278 | 1,091 | 2,754 | 1,890 | 351 | Q |
| Large cold storage areas | 4,171 | Q | 285 | Q | 311 | Q | Q |
| Commercial ice makers | 32,734 | 1,338 | 688 | 4,303 | 2,293 | 598 | 521 |
| Residential-type or compact units | 62,381 | 929 | 505 | 4,554 | 2,059 | 1,619 | 1,203 |
| Vending machines | 43,936 | 207 | 670 | 4,286 | 2,297 | 936 | 944 |
| No refrigeration | 13,448 | N | Q | Q | N | Q | Q |
| **Office equipment (more than one may apply)** | | | | | | | |
| Desktop computers | 77,063 | 1,387 | 1,040 | 5,373 | 2,374 | 1,773 | 1,411 |
| With flat screen monitors | 76,160 | 1,303 | 1,032 | 5,328 | 2,369 | 1,773 | 1,402 |
| With multiple monitors | 30,946 | 245 | Q | 1,112 | 1,854 | 752 | 719 |
| Laptop computers | 63,486 | 787 | 391 | 4,323 | 2,312 | 1,531 | 1,152 |
| Dedicated servers | 53,369 | 486 | 712 | 3,496 | 2,141 | 1,067 | 920 |
| Laser printers | 54,256 | 640 | 776 | 3,884 | 2,042 | 1,375 | 933 |
| Inkjet printers | 36,235 | 983 | 431 | 2,263 | 923 | 737 | 757 |
| FAX machines | 66,682 | 969 | 993 | 4,468 | 2,104 | 1,643 | 1,182 |
| Photocopiers | 59,277 | 360 | 492 | 3,942 | 2,267 | 1,459 | 1,092 |
| **Number of desktop computers** | | | | | | | |
| None | 10,030 | 432 | 212 | 452 | N | Q | Q |
| 1 to 4 | 15,669 | 1,118 | 477 | 1,183 | N | 224 | 360 |
| 5 to 9 | 9,422 | 214 | Q | 824 | Q | 165 | Q |
| 10 to 19 | 9,388 | Q | Q | 706 | Q | 276 | Q |
| 20 to 49 | 13,094 | Q | Q | 1,336 | Q | 342 | Q |
| 50 to 99 | 8,284 | N | N | 486 | 118 | 278 | Q |
| 100 to 249 | 9,728 | N | N | Q | 370 | 330 | Q |
| 250 or more | 11,478 | N | N | Q | 1,746 | 157 | Q |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | Principal building activity | | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Number of laptop computers** | | | | | | | |
| None | 23,607 | 1,033 | 860 | 1,502 | Q | 250 | 288 |
| 1 to 4 | 21,161 | 674 | 329 | 1,330 | Q | 434 | 363 |
| 5 to 9 | 8,345 | Q | Q | 613 | Q | 177 | Q |
| 10 to 19 | 8,343 | Q | N | 684 | 306 | 354 | Q |
| 20 to 49 | 9,643 | N | N | 804 | 295 | 258 | Q |
| 50 to 99 | 5,234 | N | N | Q | 316 | Q | Q |
| 100 to 249 | 5,217 | N | N | Q | 459 | Q | Q |
| 250 or more | 5,542 | N | N | Q | 701 | Q | Q |
| **Number of dedicated servers** | | | | | | | |
| None | 33,724 | 1,333 | 540 | 2,330 | 233 | 715 | 519 |
| 1 to 4 | 34,097 | 467 | 712 | 2,601 | 373 | 731 | 455 |
| 5 to 9 | 6,241 | Q | N | Q | 263 | Q | Q |
| 10 to 19 | 5,711 | N | N | Q | 276 | Q | Q |
| 20 to 49 | 3,758 | N | N | Q | 472 | Q | Q |
| 50 or more | 3,562 | N | N | Q | 757 | Q | Q |
| **Number of photocopiers** | | | | | | | |
| None | 27,816 | 1,459 | 759 | 1,884 | 107 | 322 | 348 |
| One | 17,080 | 292 | 375 | 1,324 | Q | 298 | 294 |
| 2 to 4 | 20,312 | Q | Q | 1,494 | Q | 531 | Q |
| 5 to 9 | 8,863 | N | Q | 358 | 163 | Q | Q |
| 10 or more | 13,022 | N | N | 766 | 1,967 | 514 | 498 |
| **Number of TVs or video displays** | | | | | | | |
| None | 24,339 | 458 | 508 | Q | Q | 275 | Q |
| One | 9,990 | 266 | 300 | Q | N | 171 | Q |
| 2 to 4 | 16,465 | 568 | 231 | 158 | Q | 531 | 351 |
| 5 to 9 | 8,148 | 341 | Q | Q | Q | 269 | Q |
| 10 to 19 | 8,168 | 123 | Q | 324 | Q | Q | Q |
| 20 to 49 | 8,058 | Q | Q | 514 | 142 | 242 | Q |
| 50 to 99 | 4,378 | Q | N | 894 | 253 | Q | Q |
| 100 or more | 7,547 | N | N | 3,312 | 1,855 | Q | Q |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 9,884 | N | 357 | 934 | 913 | Q | Q |
| Fast food or small restaurant | 9,787 | N | 272 | 1,319 | 431 | Q | Q |
| Cafeteria or large restaurant | 15,222 | N | Q | 1,842 | 1,906 | Q | Q |
| Commercial kitchen/ food preparation area | 16,150 | N | 447 | 2,954 | 1,701 | Q | 401 |
| Small kitchen area | 14,054 | N | 189 | 1,912 | 667 | 302 | 403 |

## Table B14. Selected principal building activity: part 2, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Principal building activity | | | | | |
| | | | | | Health care | | |
| | All buildings | Food service | Food sales | Lodging | In-patient | Out-patient | Public order and safety |
| **All buildings** | 87,093 | 1,819 | 1,252 | 5,826 | 2,374 | 1,781 | 1,440 |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 11,105 | Q | N | 600 | 1,478 | Q | Q |
| Computer-based training room | 17,723 | Q | Q | 639 | 1,503 | 251 | Q |
| Student or public computer center | 14,341 | Q | Q | 1,443 | 817 | Q | Q |
| **HVAC conservation features (more than one may apply)** | | | | | | | |
| Economizer cycle | 30,749 | 299 | Q | 2,035 | 1,856 | 798 | 573 |
| Regular HVAC maintenance | 69,244 | 1,313 | 954 | 5,035 | 2,368 | 1,557 | 1,280 |
| Building automation system (BAS)[2] | 37,051 | 256 | 456 | 2,249 | 2,201 | 850 | 618 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | |
| Multipaned windows | 60,362 | 1,209 | 856 | 4,598 | 2,180 | 1,493 | 1,064 |
| Tinted window glass | 45,025 | 655 | 414 | 2,424 | 1,774 | 1,090 | 793 |
| Reflective window glass | 15,908 | 200 | Q | 835 | 1,052 | 394 | Q |
| External overhangs or awnings | 32,188 | 967 | 631 | 2,121 | 1,092 | 577 | 337 |
| Skylights or atriums | 22,261 | 130 | Q | 1,307 | 1,220 | 300 | Q |
| Light scheduling | 30,263 | 383 | 642 | 2,101 | 1,029 | 566 | 465 |
| Occupancy sensors | 35,871 | 276 | 318 | 2,112 | 1,744 | 545 | 684 |
| Multi-level lighting or dimming | 14,534 | 360 | Q | 1,413 | 826 | Q | Q |
| Daylight harvesting | 6,114 | Q | Q | Q | 350 | Q | Q |
| Demand responsive lighting | 4,738 | Q | Q | Q | Q | Q | Q |
| Building automation system (BAS) for lighting[2] | 12,068 | Q | Q | 319 | 327 | Q | Q |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | |
| Heating | 63,167 | 1,411 | 670 | 2,870 | 1,238 | 1,314 | 711 |
| Cooling | 62,516 | 1,386 | 604 | 3,023 | 1,228 | 1,342 | 780 |
| Lighting | 78,594 | 1,734 | 943 | 4,838 | 2,076 | 1,777 | 1,314 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 1,984 | 547 | 217 | 30 | N | N | N |
| 5,001 to 10,000 | 1,229 | 550 | 331 | 239 | 108 | Q | N | N |
| 10,001 to 25,000 | 884 | 279 | 159 | 195 | 202 | 41 | Q | Q |
| 25,001 to 50,000 | 332 | 52 | 39 | 58 | 100 | 64 | 18 | Q |
| 50,001 to 100,000 | 199 | 21 | 7 | 17 | 56 | 62 | 33 | 4 |
| 100,001 to 200,000 | 90 | 5 | Q | 4 | 14 | 32 | 19 | 13 |
| 200,001 to 500,000 | 38 | Q | Q | Q | 2 | 6 | 15 | 12 |
| Over 500,000 | 8 | Q | Q | Q | Q | Q | 1 | 6 |
| **Principal building activity** | | | | | | | | |
| Education | 389 | 122 | 71 | 50 | 82 | 45 | 17 | 3 |
| Food sales | 177 | 118 | 32 | Q | Q | Q | Q | N |
| Food service | 380 | 136 | 119 | 88 | 35 | N | Q | N |
| Health care | 157 | Q | 60 | 32 | 21 | 9 | 9 | 5 |
| Inpatient | 10 | N | N | N | Q | Q | 2 | 4 |
| Outpatient | 147 | Q | 60 | 32 | 20 | 7 | 7 | 1 |
| Lodging | 158 | 73 | 29 | 22 | 18 | 10 | 5 | 1 |
| Mercantile | 602 | 265 | 132 | 95 | 72 | 27 | 10 | 2 |
| Retail (other than mall) | 438 | 251 | 89 | 59 | 26 | 9 | Q | Q |
| Enclosed and strip malls | 164 | Q | 42 | 37 | 45 | 18 | 6 | 1 |
| Office | 1,012 | 320 | 254 | 168 | 144 | 70 | 34 | 22 |
| Public assembly | 352 | 230 | 65 | 32 | 15 | 6 | 2 | 1 |
| Public order and safety | 84 | Q | Q | Q | Q | 9 | Q | Q |
| Religious worship | 412 | 296 | 61 | 42 | 11 | Q | Q | N |
| Service | 619 | 398 | 119 | 61 | 30 | Q | Q | Q |
| Warehouse and storage | 796 | 528 | 104 | 89 | 54 | 12 | 7 | 2 |
| Other | 125 | 75 | Q | Q | Q | Q | Q | Q |
| Vacant | 296 | 283 | Q | Q | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | |
| Before 1920 | 362 | 235 | 60 | 37 | 20 | 6 | 4 | 1 |
| 1920 to 1945 | 488 | 324 | 87 | 30 | 28 | 13 | 5 | 2 |
| 1946 to 1959 | 599 | 380 | 96 | 59 | 32 | 25 | 6 | 2 |
| 1960 to 1969 | 639 | 316 | 133 | 81 | 68 | 26 | 12 | 2 |
| 1970 to 1979 | 684 | 329 | 145 | 107 | 65 | 21 | 12 | 6 |
| 1980 to 1989 | 915 | 435 | 178 | 131 | 105 | 38 | 19 | 9 |
| 1990 to 1999 | 845 | 421 | 168 | 124 | 85 | 30 | 12 | 6 |
| 2000 to 2003 | 375 | 171 | 73 | 57 | 43 | 17 | 10 | 4 |
| 2004 to 2007 | 347 | 158 | 70 | 54 | 37 | 18 | 8 | 2 |
| 2008 to 2012 | 303 | 123 | 76 | 50 | 30 | 13 | 7 | 2 |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Census region** | | | | | | | | |
| Northeast | 805 | 414 | 154 | 106 | 68 | 31 | 21 | 10 |
| Midwest | 1,237 | 715 | 224 | 129 | 104 | 41 | 18 | 7 |
| South | 2,247 | 1,163 | 448 | 297 | 198 | 97 | 32 | 11 |
| West | 1,267 | 600 | 259 | 200 | 143 | 36 | 22 | 8 |
| **Climate region[1]** | | | | | | | | |
| Very cold/Cold | 2,031 | 1,099 | 383 | 247 | 183 | 71 | 35 | 13 |
| Mixed-humid | 1,743 | 943 | 312 | 227 | 152 | 69 | 29 | 12 |
| Mixed-dry/Hot-dry | 837 | 380 | 189 | 138 | 85 | 25 | 17 | 4 |
| Hot-humid | 799 | 392 | 178 | 103 | 73 | 36 | 10 | 6 |
| Marine | 147 | Q | Q | 17 | 20 | 5 | Q | 2 |
| **Number of floors** | | | | | | | | |
| One | 3,836 | 2,191 | 767 | 475 | 282 | 87 | 31 | 3 |
| Two | 1,158 | 494 | 220 | 197 | 152 | 65 | 24 | 6 |
| Three | 374 | 164 | 77 | 42 | 55 | 21 | 11 | 4 |
| Four to nine | 177 | 42 | 21 | 16 | 24 | 31 | 27 | 15 |
| Ten or more | 13 | Q | Q | Q | Q | 1 | 2 | 8 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | |
| Any elevators | 405 | 55 | 34 | 53 | 96 | 78 | 56 | 33 |
| Number of elevators | | | | | | | | |
| One | 272 | 45 | 31 | 46 | 79 | 46 | 20 | 5 |
| Two to five | 118 | 10 | Q | 7 | 17 | 32 | 33 | 17 |
| Six or more | 16 | Q | Q | N | Q | Q | 3 | 12 |
| Any escalators | 10 | Q | N | Q | Q | Q | 1 | 3 |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 1,149 | 982 | 98 | 46 | 17 | Q | Q | Q |
| 40 to 48 | 1,346 | 612 | 353 | 191 | 121 | 49 | 18 | 3 |
| 49 to 60 | 1,244 | 495 | 296 | 212 | 150 | 52 | 26 | 13 |
| 61 to 84 | 764 | 278 | 169 | 137 | 115 | 42 | 18 | 6 |
| 85 to 167 | 479 | 217 | 84 | 76 | 62 | 28 | 10 | 2 |
| Open continuously | 575 | 308 | 86 | 70 | 49 | 29 | 21 | 12 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 4,781 | 2,586 | 941 | 613 | 411 | 133 | 68 | 29 |
| Owner occupied | 2,466 | 1,418 | 506 | 294 | 165 | 49 | 27 | 8 |
| Leased to tenant(s) | 1,745 | 838 | 345 | 263 | 185 | 69 | 29 | 15 |
| Owner occupied and leased | 349 | 108 | 90 | 56 | 60 | 15 | 13 | 6 |
| Unoccupied | 221 | 221 | N | N | N | N | N | N |
| Government owned | 776 | 306 | 144 | 118 | 102 | 72 | 25 | 8 |
| Federal | 33 | Q | Q | Q | Q | Q | Q | 1 |
| State | 185 | 77 | 28 | 24 | 23 | 24 | 5 | 3 |
| Local | 558 | 218 | 111 | 90 | 74 | 44 | 17 | 4 |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | |
| Building owner | 4,715 | 2,554 | 889 | 586 | 402 | 171 | 80 | 33 |
| Business owner or tenant | 724 | 295 | 161 | 129 | 98 | 29 | 10 | 3 |
| Property management | 54 | Q | Q | Q | Q | Q | Q | 1 |
| Other | 64 | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | |
| Building owner | 4,876 | 2,626 | 932 | 604 | 421 | 177 | 83 | 34 |
| Business owner or tenant | 540 | 219 | 112 | 106 | 71 | 22 | 8 | 2 |
| Property management | 35 | Q | Q | Q | Q | Q | Q | Q |
| Other | 106 | 34 | 32 | Q | 19 | Q | Q | Q |
| **Number of establishments** | | | | | | | | |
| One | 4,205 | 2,325 | 846 | 526 | 312 | 127 | 51 | 17 |
| 2 to 5 | 862 | 278 | 215 | 171 | 123 | 42 | 25 | 8 |
| 6 to 10 | 147 | Q | 21 | 29 | 50 | 16 | 4 | 4 |
| 11 to 20 | 68 | Q | Q | Q | 26 | 16 | 7 | 3 |
| More than 20 | 27 | Q | Q | N | Q | 5 | 7 | 5 |
| Currently unoccupied | 248 | 248 | N | N | N | N | N | N |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 5,234 | 2,570 | 1,084 | 731 | 513 | 206 | 93 | 37 |
| Natural gas | 2,933 | 1,225 | 606 | 498 | 348 | 154 | 74 | 27 |
| Fuel oil | 467 | 214 | 73 | 45 | 44 | 39 | 30 | 21 |
| District heat | 48 | Q | Q | Q | 11 | 7 | 7 | 7 |
| District chilled water | 54 | Q | Q | Q | 9 | 9 | 6 | 5 |
| Propane | 510 | 286 | 98 | 66 | 40 | 11 | 7 | 2 |
| Other | 172 | 84 | 36 | 24 | 11 | 9 | 6 | 2 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 2,858 | 1,217 | 658 | 425 | 341 | 141 | 54 | 22 |
| Natural gas | 2,612 | 1,126 | 527 | 434 | 306 | 134 | 64 | 21 |
| Fuel oil | 270 | 171 | 43 | 22 | 16 | 11 | 5 | 2 |
| District heat | 48 | Q | Q | Q | 11 | 7 | 7 | 6 |
| Propane | 342 | 218 | 55 | 40 | 23 | Q | Q | Q |
| Other | 101 | 63 | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | |
| Electricity | 1,819 | 788 | 467 | 269 | 186 | 74 | 24 | 11 |
| Natural gas | 2,322 | 1,040 | 451 | 370 | 274 | 112 | 58 | 18 |
| Fuel oil | 205 | 136 | 33 | Q | Q | 7 | 2 | Q |
| District heat | 47 | Q | Q | Q | 11 | 7 | 7 | 6 |
| Propane | 261 | 172 | 46 | 27 | Q | Q | Q | Q |
| Other | 67 | 41 | Q | Q | Q | Q | Q | Q |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Cooling energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 4,413 | 1,918 | 994 | 696 | 486 | 197 | 87 | 35 |
| Natural gas | 12 | Q | N | N | Q | Q | Q | 1 |
| District chilled water | 54 | Q | Q | Q | 9 | 9 | 6 | 5 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 2,658 | 1,207 | 606 | 376 | 290 | 115 | 45 | 20 |
| Natural gas | 1,758 | 644 | 354 | 339 | 239 | 110 | 55 | 17 |
| Fuel oil | 77 | 39 | Q | Q | Q | Q | 2 | 1 |
| District heat | 25 | Q | Q | Q | 5 | 4 | 6 | 5 |
| Propane | 142 | 71 | 37 | 23 | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 1,010 | 416 | 206 | 163 | 124 | 62 | 25 | 14 |
| Natural gas | 740 | 243 | 131 | 141 | 121 | 61 | 30 | 13 |
| Propane | 144 | 81 | Q | 22 | Q | 5 | 2 | Q |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 4,722 | 2,184 | 1,020 | 692 | 494 | 203 | 92 | 37 |
| Buildings with cooling | 4,461 | 1,932 | 999 | 699 | 498 | 203 | 93 | 37 |
| Buildings with water heating | 4,423 | 1,917 | 977 | 700 | 495 | 203 | 93 | 37 |
| Buildings with cooking | 1,589 | 660 | 308 | 271 | 197 | 92 | 40 | 21 |
| Buildings with manufacturing | 259 | 92 | 61 | 42 | 44 | 13 | 5 | 2 |
| Buildings with electricity generation | 410 | 89 | 67 | 65 | 63 | 58 | 45 | 23 |
| **Percent of floorspace heated** | | | | | | | | |
| Not heated | 835 | 708 | 65 | 39 | 19 | Q | Q | Q |
| 1 to 50 | 697 | 366 | 165 | 92 | 57 | 10 | 5 | 1 |
| 51 to 99 | 727 | 331 | 153 | 107 | 74 | 41 | 14 | 7 |
| 100 | 3,298 | 1,487 | 702 | 493 | 362 | 152 | 74 | 29 |
| **Percent of floorspace cooled** | | | | | | | | |
| Not cooled | 1,096 | 960 | 86 | 32 | 15 | Q | Q | N |
| 1 to 50 | 1,173 | 593 | 254 | 175 | 112 | 26 | 12 | 2 |
| 51 to 99 | 897 | 321 | 169 | 174 | 130 | 64 | 27 | 12 |
| 100 | 2,391 | 1,018 | 576 | 351 | 256 | 114 | 54 | 23 |
| **Percent lit when open** | | | | | | | | |
| Zero | 70 | 68 | Q | Q | N | N | N | N |
| 1 to 50 | 1,099 | 754 | 201 | 83 | 45 | 12 | 3 | 1 |
| 51 to 99 | 1,666 | 616 | 372 | 284 | 234 | 103 | 44 | 13 |
| 100 | 2,222 | 957 | 508 | 364 | 233 | 90 | 46 | 23 |
| Building never open/electricity not used | 501 | 496 | Q | N | Q | N | N | N |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Percent lit during off hours** | | | | | | | | |
| Zero | 2,489 | 1,484 | 513 | 274 | 156 | 38 | 17 | 7 |
| 1 to 50 | 2,441 | 954 | 518 | 413 | 319 | 151 | 64 | 23 |
| 51 to 100 | 202 | 79 | 37 | 34 | 27 | 12 | 8 | 5 |
| Building always open with no "off hours" | 102 | 53 | Q | Q | 12 | 5 | Q | 1 |
| Electricity not used | 323 | 322 | Q | N | N | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | | |
| Heat pumps | 628 | 246 | 159 | 85 | 81 | 38 | 13 | 5 |
| Furnaces | 755 | 330 | 186 | 142 | 69 | 23 | 5 | 1 |
| Individual space heaters | 1,247 | 672 | 239 | 149 | 114 | 46 | 18 | 8 |
| District heat | 48 | Q | Q | Q | 11 | 7 | 7 | 6 |
| Boilers | 544 | 182 | 79 | 77 | 88 | 58 | 44 | 16 |
| Packaged heating units | 2,802 | 1,171 | 618 | 458 | 342 | 139 | 55 | 18 |
| Other | 62 | Q | Q | Q | 10 | Q | 2 | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 736 | 379 | 255 | 136 | 30 | 10 | 1 |
| Heat pumps | 692 | 272 | 171 | 95 | 96 | 39 | 13 | 6 |
| Individual air conditioners | 709 | 389 | 127 | 88 | 60 | 23 | 16 | 5 |
| District chilled water | 54 | Q | Q | Q | 9 | 9 | 6 | 5 |
| Central chillers | 163 | 23 | 16 | 17 | 28 | 35 | 27 | 19 |
| Packaged air conditioning units | 1,909 | 644 | 418 | 353 | 288 | 132 | 53 | 21 |
| Swamp coolers | 109 | 48 | 26 | Q | 8 | 6 | Q | Q |
| Other | Q | Q | Q | Q | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | |
| Heating | 1,874 | 892 | 418 | 248 | 194 | 82 | 31 | 9 |
| Cooling | 1,971 | 913 | 440 | 276 | 212 | 83 | 35 | 13 |
| **Water-heating equipment** | | | | | | | | |
| Centralized system | 3,348 | 1,547 | 777 | 515 | 319 | 122 | 51 | 17 |
| Distributed system | 690 | 292 | 140 | 118 | 78 | 36 | 20 | 6 |
| Combination of centralized and distributed system | 385 | 78 | 61 | 66 | 98 | 46 | 23 | 14 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | |
| Incandescent | 1,826 | 813 | 364 | 281 | 206 | 98 | 43 | 21 |
| Standard fluorescent | 4,649 | 2,102 | 1,018 | 703 | 498 | 199 | 92 | 37 |
| Compact fluorescent | 2,302 | 885 | 501 | 385 | 292 | 140 | 66 | 33 |
| High-intensity discharge (HID) | 525 | 152 | 108 | 82 | 86 | 53 | 31 | 14 |
| Halogen | 905 | 327 | 180 | 148 | 130 | 70 | 32 | 18 |
| LED | 473 | 119 | 76 | 89 | 87 | 55 | 30 | 16 |
| Other | 10 | Q | Q | Q | Q | Q | Q | Q |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | |
| Any refrigeration | 3,984 | 1,697 | 899 | 632 | 445 | 190 | 86 | 35 |
| Walk-in units | 811 | 229 | 169 | 150 | 139 | 75 | 34 | 16 |
| Cases or cabinets | 915 | 312 | 203 | 151 | 133 | 59 | 38 | 18 |
| Large cold storage areas | 78 | Q | Q | Q | 14 | 8 | 7 | 2 |
| Commercial ice makers | 846 | 232 | 167 | 160 | 141 | 80 | 43 | 23 |
| Residential-type or compact units | 3,388 | 1,449 | 764 | 532 | 379 | 162 | 72 | 30 |
| Vending machines | 960 | 195 | 169 | 159 | 205 | 132 | 69 | 31 |
| No refrigeration | 1,573 | 1,195 | 187 | 99 | 68 | 16 | 8 | 2 |
| **Office equipment (more than one may apply)** | | | | | | | | |
| Desktop computers | 3,977 | 1,509 | 964 | 673 | 498 | 203 | 93 | 36 |
| With flat screen monitors | 3,847 | 1,406 | 949 | 665 | 496 | 203 | 93 | 36 |
| With multiple monitors | 911 | 174 | 190 | 171 | 205 | 84 | 59 | 28 |
| Laptop computers | 2,730 | 946 | 586 | 480 | 410 | 185 | 87 | 36 |
| Dedicated servers | 1,748 | 345 | 394 | 385 | 343 | 167 | 79 | 34 |
| Laser printers | 2,339 | 703 | 586 | 428 | 364 | 156 | 72 | 30 |
| Inkjet printers | 2,187 | 958 | 502 | 381 | 202 | 88 | 43 | 15 |
| FAX machines | 3,185 | 1,124 | 755 | 566 | 441 | 181 | 85 | 33 |
| Photocopiers | 2,163 | 573 | 486 | 421 | 386 | 179 | 84 | 34 |
| **Number of desktop computers** | | | | | | | | |
| None | 1,581 | 1,382 | 121 | 58 | Q | Q | Q | Q |
| 1 to 4 | 2,039 | 1,283 | 468 | 211 | 70 | Q | Q | Q |
| 5 to 9 | 821 | 184 | 361 | 184 | 78 | 10 | Q | Q |
| 10 to 19 | 482 | 24 | 99 | 214 | 126 | 17 | Q | Q |
| 20 to 49 | 355 | Q | 32 | 57 | 161 | 70 | 17 | Q |
| 50 to 99 | 143 | N | Q | Q | 43 | 72 | 16 | 2 |
| 100 to 249 | 92 | Q | N | Q | 18 | 23 | 43 | 8 |
| 250 or more | 44 | N | N | Q | Q | 8 | 11 | 23 |
| **Number of laptop computers** | | | | | | | | |
| None | 2,827 | 1,946 | 499 | 251 | 103 | 21 | 7 | Q |
| 1 to 4 | 1,944 | 884 | 502 | 348 | 171 | 32 | 7 | Q |
| 5 to 9 | 350 | 41 | 69 | 98 | 102 | 30 | 8 | Q |
| 10 to 19 | 181 | Q | Q | 24 | 72 | 49 | 17 | 3 |
| 20 to 49 | 144 | Q | Q | Q | 52 | 47 | 26 | 6 |
| 50 to 99 | 58 | Q | Q | Q | 8 | 18 | 15 | 7 |
| 100 to 249 | 35 | Q | Q | Q | Q | 7 | 10 | 7 |
| 250 or more | 20 | Q | Q | Q | Q | Q | 4 | 11 |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Number of dedicated servers** | | | | | | | | |
| None | 3,809 | 2,546 | 691 | 347 | 170 | 38 | 15 | 3 |
| 1 to 4 | 1,562 | 340 | 389 | 371 | 300 | 119 | 35 | 9 |
| 5 to 9 | 97 | Q | Q | Q | 27 | 30 | 19 | 4 |
| 10 to 19 | 50 | Q | Q | Q | Q | 13 | 14 | 7 |
| 20 to 49 | 25 | N | N | Q | Q | 5 | 9 | 6 |
| 50 or more | 13 | Q | N | Q | Q | Q | Q | 8 |
| **Number of photocopiers** | | | | | | | | |
| None | 3,394 | 2,319 | 599 | 310 | 127 | 26 | 10 | 3 |
| One | 1,325 | 516 | 377 | 267 | 134 | 26 | 5 | Q |
| 2 to 4 | 648 | 56 | 106 | 148 | 210 | 99 | 25 | 4 |
| 5 to 9 | 116 | Q | Q | Q | 33 | 40 | 28 | 6 |
| 10 or more | 75 | N | N | Q | Q | 14 | 26 | 23 |
| **Number of TVs or video displays** | | | | | | | | |
| None | 2,718 | 1,798 | 499 | 235 | 138 | 35 | 10 | 2 |
| One | 1,145 | 602 | 257 | 175 | 83 | 24 | Q | Q |
| 2 to 4 | 1,035 | 367 | 224 | 224 | 142 | 54 | 21 | 4 |
| 5 to 9 | 314 | 78 | 69 | 62 | 57 | 24 | 18 | 6 |
| 10 to 19 | 154 | 24 | Q | 13 | 50 | 26 | 14 | 9 |
| 20 to 49 | 106 | Q | Q | Q | 28 | 26 | 14 | 5 |
| 50 to 99 | 48 | Q | Q | 7 | 9 | 8 | 10 | 3 |
| 100 or more | 37 | Q | Q | 5 | 7 | 8 | 4 | 7 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | |
| Snack bar or concession stand | 153 | 57 | Q | 26 | 21 | 18 | 12 | 6 |
| Fast food or small restaurant | 173 | 27 | 33 | 36 | 39 | 20 | 11 | 7 |
| Cafeteria or large restaurant | 130 | Q | Q | 9 | 37 | 43 | 18 | 12 |
| Commercial kitchen/ food preparation area | 282 | 87 | 19 | 43 | 61 | 44 | 20 | 8 |
| Small kitchen area | 736 | 387 | 130 | 108 | 66 | 27 | 13 | 6 |
| **Separate computer areas (more than one may apply)** | | | | | | | | |
| Data center or server farm | 97 | Q | Q | Q | 18 | 19 | 22 | 16 |
| Computer-based training room | 244 | Q | 31 | 35 | 68 | 51 | 25 | 16 |
| Student or public computer center | 238 | 38 | 30 | 34 | 64 | 46 | 21 | 6 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | |
| Economizer cycle | 601 | 132 | 93 | 94 | 128 | 83 | 48 | 24 |
| Regular HVAC maintenance | 3,178 | 1,171 | 690 | 549 | 449 | 190 | 92 | 37 |
| Building automation system (BAS)[2] | 781 | 198 | 146 | 109 | 144 | 93 | 62 | 29 |

## Table B15. Employment size category, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 5,557 | 2,892 | 1,085 | 731 | 513 | 206 | 93 | 37 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | |
| Multipaned windows | 3,012 | 1,253 | 664 | 488 | 351 | 157 | 72 | 28 |
| Tinted window glass | 1,875 | 685 | 412 | 301 | 264 | 125 | 62 | 26 |
| Reflective window glass | 549 | 180 | 124 | 87 | 80 | 42 | 23 | 13 |
| External overhangs or awnings | 1,867 | 781 | 433 | 306 | 214 | 87 | 33 | 12 |
| Skylights or atriums | 591 | 187 | 117 | 94 | 100 | 55 | 26 | 12 |
| Light scheduling | 918 | 271 | 205 | 163 | 140 | 79 | 38 | 21 |
| Occupancy sensors | 813 | 167 | 153 | 149 | 160 | 103 | 56 | 25 |
| Multi-level lighting or dimming | 349 | 89 | 57 | 61 | 76 | 38 | 19 | 9 |
| Daylight harvesting | 125 | 35 | 28 | Q | 25 | 14 | 10 | 4 |
| Demand responsive lighting | 176 | 64 | 30 | 31 | 28 | 16 | 6 | 1 |
| Building automation system (BAS) for lighting[2] | 208 | 38 | 43 | 33 | 42 | 28 | 16 | 9 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | |
| Heating | 3,699 | 1,678 | 792 | 557 | 401 | 165 | 77 | 29 |
| Cooling | 3,517 | 1,497 | 789 | 562 | 397 | 166 | 77 | 29 |
| Lighting | 4,757 | 2,200 | 1,046 | 702 | 489 | 197 | 87 | 36 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 5,362 | 1,768 | 794 | 117 | N | N | N |
| 5,001 to 10,000 | 8,900 | 3,843 | 2,389 | 1,793 | 869 | Q | N | N |
| 10,001 to 25,000 | 14,105 | 4,334 | 2,454 | 3,135 | 3,314 | 719 | Q | Q |
| 25,001 to 50,000 | 11,917 | 1,791 | 1,437 | 2,017 | 3,615 | 2,339 | 686 | Q |
| 50,001 to 100,000 | 13,918 | 1,332 | 447 | 1,051 | 4,036 | 4,388 | 2,328 | 337 |
| 100,001 to 200,000 | 12,415 | 677 | Q | 574 | 1,903 | 4,152 | 2,861 | 1,879 |
| 200,001 to 500,000 | 10,724 | Q | Q | Q | 595 | 1,544 | 4,078 | 3,842 |
| Over 500,000 | 7,074 | Q | Q | Q | Q | Q | 845 | 5,718 |
| **Principal building activity** | | | | | | | | |
| Education | 12,239 | 504 | 544 | 774 | 3,156 | 3,829 | 2,899 | 533 |
| Food sales | 1,252 | 422 | 161 | Q | Q | Q | Q | N |
| Food service | 1,819 | 434 | 507 | 518 | 303 | N | Q | N |
| Health care | 4,155 | Q | 305 | 220 | 368 | 388 | 681 | 2,141 |
| Inpatient | 2,374 | N | N | N | Q | Q | 236 | 1,974 |
| Outpatient | 1,781 | Q | 305 | 220 | 344 | 249 | 444 | 167 |
| Lodging | 5,826 | 998 | 516 | 900 | 1,088 | 861 | 654 | 809 |
| Mercantile | 11,330 | 1,236 | 1,291 | 1,232 | 2,590 | 2,333 | 1,789 | 859 |
| Retail (other than mall) | 5,439 | 1,135 | 888 | 841 | 993 | 861 | Q | Q |
| Enclosed and strip malls | 5,890 | Q | 403 | 391 | 1,597 | 1,472 | 1,194 | 732 |
| Office | 15,952 | 1,003 | 1,206 | 1,276 | 2,134 | 2,556 | 2,059 | 5,718 |
| Public assembly | 5,559 | 1,695 | 941 | 540 | 635 | 537 | 596 | 614 |
| Public order and safety | 1,440 | Q | Q | Q | Q | 421 | Q | Q |
| Religious worship | 4,557 | 2,397 | 751 | 595 | 560 | Q | Q | N |
| Service | 4,630 | 1,671 | 780 | 794 | 778 | Q | Q | Q |
| Warehouse and storage | 13,077 | 4,003 | 1,496 | 2,201 | 2,028 | 1,330 | 1,473 | 547 |
| Other | 2,002 | 393 | Q | Q | Q | Q | Q | Q |
| Vacant | 3,256 | 2,747 | Q | Q | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | |
| Before 1920 | 3,983 | 1,586 | 407 | 363 | 392 | 458 | 356 | 421 |
| 1920 to 1945 | 6,025 | 1,752 | 714 | 480 | 675 | 835 | 456 | 1,114 |
| 1946 to 1959 | 7,381 | 1,890 | 723 | 755 | 1,043 | 1,472 | 812 | 686 |
| 1960 to 1969 | 10,362 | 2,109 | 1,185 | 1,167 | 2,016 | 1,610 | 1,321 | 955 |
| 1970 to 1979 | 10,846 | 2,100 | 1,175 | 1,425 | 1,706 | 1,171 | 1,139 | 2,131 |
| 1980 to 1989 | 15,230 | 2,678 | 1,443 | 1,566 | 2,771 | 2,371 | 1,849 | 2,552 |
| 1990 to 1999 | 13,803 | 2,546 | 1,252 | 1,686 | 2,460 | 2,305 | 1,802 | 1,752 |
| 2000 to 2003 | 7,215 | 1,020 | 685 | 754 | 1,344 | 1,082 | 1,377 | 954 |
| 2004 to 2007 | 6,524 | 1,118 | 647 | 715 | 1,082 | 1,216 | 981 | 765 |
| 2008 to 2012 | 5,723 | 954 | 743 | 711 | 1,026 | 955 | 849 | 485 |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Census region** | | | | | | | | |
| Northeast | 15,534 | 2,692 | 1,282 | 1,390 | 1,903 | 2,385 | 2,530 | 3,352 |
| Midwest | 18,919 | 4,286 | 1,910 | 1,880 | 3,372 | 2,761 | 2,314 | 2,397 |
| South | 34,279 | 7,336 | 3,553 | 3,814 | 5,611 | 6,076 | 4,163 | 3,726 |
| West | 18,360 | 3,438 | 2,227 | 2,538 | 3,628 | 2,254 | 1,934 | 2,341 |
| **Climate region[1]** | | | | | | | | |
| Very cold/Cold | 31,898 | 6,604 | 3,165 | 3,373 | 5,387 | 4,891 | 4,203 | 4,276 |
| Mixed-humid | 27,873 | 5,458 | 2,519 | 2,883 | 4,280 | 4,634 | 3,744 | 4,356 |
| Mixed-dry/Hot-dry | 12,037 | 2,616 | 1,537 | 1,708 | 2,115 | 1,441 | 1,554 | 1,066 |
| Hot-humid | 12,831 | 2,720 | 1,505 | 1,382 | 2,154 | 2,209 | 1,211 | 1,651 |
| Marine | 2,454 | 354 | Q | 277 | 577 | 302 | Q | 466 |
| **Number of floors** | | | | | | | | |
| One | 39,809 | 11,548 | 5,638 | 5,709 | 6,907 | 5,841 | 3,289 | 876 |
| Two | 20,206 | 3,555 | 2,234 | 2,560 | 4,279 | 3,670 | 2,711 | 1,196 |
| Three | 8,140 | 1,547 | 715 | 710 | 1,764 | 1,372 | 1,240 | 792 |
| Four to nine | 13,535 | 1,002 | 379 | 597 | 1,442 | 2,290 | 3,289 | 4,535 |
| Ten or more | 5,404 | Q | Q | Q | Q | 303 | 412 | 4,415 |
| **Elevators and escalators (more than one may apply)** | | | | | | | | |
| Any elevators | 32,120 | 1,669 | 796 | 1,532 | 4,453 | 5,970 | 6,960 | 10,741 |
| Number of elevators | | | | | | | | |
| One | 11,158 | 839 | 664 | 1,082 | 2,907 | 2,915 | 2,023 | 729 |
| Two to five | 12,817 | 731 | Q | 451 | 1,505 | 2,754 | 4,079 | 3,178 |
| Six or more | 8,145 | Q | Q | N | Q | Q | 857 | 6,834 |
| Any escalators | 3,654 | Q | N | Q | Q | Q | 372 | 2,802 |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 8,220 | 6,143 | 709 | 480 | 369 | Q | Q | Q |
| 40 to 48 | 15,828 | 3,098 | 2,383 | 2,200 | 3,156 | 2,875 | 1,466 | 649 |
| 49 to 60 | 20,529 | 2,890 | 2,509 | 3,043 | 3,861 | 2,696 | 2,534 | 2,996 |
| 61 to 84 | 15,867 | 1,774 | 1,638 | 1,704 | 3,191 | 2,799 | 2,646 | 2,116 |
| 85 to 167 | 9,395 | 1,296 | 716 | 759 | 1,941 | 2,400 | 1,485 | 798 |
| Open continuously | 17,253 | 2,550 | 1,019 | 1,437 | 1,998 | 2,408 | 2,640 | 5,203 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 67,550 | 15,635 | 7,865 | 7,911 | 11,024 | 8,465 | 7,679 | 8,971 |
| Owner occupied | 30,637 | 8,458 | 4,190 | 4,011 | 4,570 | 3,455 | 3,345 | 2,608 |
| Leased to tenant(s) | 26,115 | 4,456 | 2,798 | 3,222 | 4,568 | 3,914 | 3,152 | 4,004 |
| Owner occupied and leased | 8,873 | 795 | 877 | 679 | 1,886 | 1,096 | 1,182 | 2,359 |
| Unoccupied | 1,925 | 1,925 | N | N | N | N | N | N |
| Government owned | 19,543 | 2,116 | 1,108 | 1,711 | 3,490 | 5,011 | 3,262 | 2,844 |
| Federal | 1,573 | Q | Q | Q | Q | Q | Q | 873 |
| State | 5,539 | 675 | 279 | 505 | 1,036 | 1,522 | 720 | 802 |
| Local | 12,431 | 1,392 | 764 | 1,096 | 2,313 | 3,347 | 2,351 | 1,168 |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | |
| Building owner | 73,702 | 16,098 | 7,471 | 7,793 | 11,425 | 11,305 | 9,045 | 10,564 |
| Business owner or tenant | 11,309 | 1,395 | 1,234 | 1,671 | 2,796 | 1,824 | 1,550 | 840 |
| Property management | 1,250 | Q | Q | Q | Q | Q | Q | 373 |
| Other | 832 | Q | Q | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | |
| Building owner | 76,271 | 16,547 | 7,869 | 8,117 | 12,135 | 11,719 | 9,282 | 10,602 |
| Business owner or tenant | 8,256 | 935 | 840 | 1,206 | 1,951 | 1,271 | 1,249 | 803 |
| Property management | 880 | Q | Q | Q | Q | Q | Q | Q |
| Other | 1,686 | 174 | 225 | Q | 379 | Q | Q | Q |
| **Number of establishments** | | | | | | | | |
| One | 54,994 | 13,276 | 6,712 | 6,905 | 8,722 | 8,068 | 6,459 | 4,853 |
| 2 to 5 | 17,756 | 1,785 | 2,002 | 2,291 | 3,443 | 3,184 | 2,404 | 2,647 |
| 6 to 10 | 4,425 | Q | 195 | 343 | 1,362 | 924 | 378 | 1,010 |
| 11 to 20 | 3,704 | Q | Q | Q | 855 | 955 | 772 | 939 |
| More than 20 | 3,821 | Q | Q | N | Q | 346 | 928 | 2,366 |
| Currently unoccupied | 2,393 | 2,393 | N | N | N | N | N | N |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 84,869 | 15,530 | 8,970 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| Natural gas | 58,725 | 7,858 | 5,355 | 6,799 | 10,613 | 10,320 | 8,880 | 8,900 |
| Fuel oil | 20,200 | 1,489 | 717 | 765 | 1,824 | 3,137 | 4,040 | 8,229 |
| District heat | 5,964 | Q | Q | Q | 623 | 669 | 1,096 | 3,082 |
| District chilled water | 4,608 | Q | Q | Q | 505 | 683 | 982 | 1,986 |
| Propane | 7,706 | 1,689 | 902 | 932 | 1,246 | 1,052 | 958 | 927 |
| Other | 3,826 | 543 | 359 | 365 | 416 | 656 | 870 | 618 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 49,030 | 6,806 | 5,390 | 5,488 | 9,380 | 8,881 | 6,410 | 6,676 |
| Natural gas | 49,511 | 7,144 | 4,655 | 5,914 | 9,275 | 8,947 | 7,504 | 6,072 |
| Fuel oil | 4,351 | 998 | 348 | 311 | 555 | 786 | 710 | 644 |
| District heat | 5,925 | Q | Q | Q | 623 | 669 | 1,096 | 3,053 |
| Propane | 3,067 | 1,222 | 465 | 390 | 388 | Q | Q | Q |
| Other | 1,010 | 284 | Q | Q | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | |
| Electricity | 26,205 | 4,326 | 3,673 | 3,380 | 4,997 | 4,367 | 2,446 | 3,015 |
| Natural gas | 42,988 | 6,471 | 3,941 | 4,804 | 7,987 | 7,604 | 6,863 | 5,317 |
| Fuel oil | 2,542 | 831 | 185 | Q | Q | 488 | 316 | Q |
| District heat | 5,797 | Q | Q | Q | 623 | 610 | 1,091 | 3,015 |
| Propane | 1,948 | 963 | 412 | 287 | Q | Q | Q | Q |
| Other | 598 | 167 | Q | Q | Q | Q | Q | Q |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Cooling energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 76,034 | 11,383 | 8,177 | 9,070 | 13,707 | 12,844 | 10,076 | 10,777 |
| Natural gas | 732 | Q | N | N | Q | Q | Q | 378 |
| District chilled water | 4,608 | Q | Q | Q | 505 | 683 | 982 | 1,986 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 42,755 | 6,498 | 4,882 | 4,980 | 7,767 | 7,104 | 5,572 | 5,951 |
| Natural gas | 39,523 | 4,706 | 3,280 | 4,518 | 7,529 | 7,742 | 6,380 | 5,367 |
| Fuel oil | 1,911 | 319 | Q | Q | Q | Q | 347 | 332 |
| District heat | 4,551 | Q | Q | Q | 331 | 409 | 961 | 2,581 |
| Propane | 1,575 | 512 | 289 | 210 | Q | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 25,151 | 2,425 | 1,747 | 2,080 | 3,839 | 5,012 | 3,989 | 6,060 |
| Natural gas | 24,770 | 1,747 | 1,095 | 1,501 | 4,502 | 5,178 | 4,852 | 5,895 |
| Propane | 2,001 | 510 | Q | 250 | Q | 438 | 268 | Q |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 80,078 | 12,931 | 8,492 | 8,970 | 14,126 | 13,184 | 10,805 | 11,570 |
| Buildings with cooling | 79,294 | 11,595 | 8,238 | 9,190 | 14,219 | 13,323 | 10,913 | 11,815 |
| Buildings with water heating | 79,015 | 11,783 | 8,205 | 9,137 | 14,097 | 13,171 | 10,912 | 11,711 |
| Buildings with cooking | 38,546 | 4,138 | 2,501 | 3,203 | 6,481 | 7,501 | 6,181 | 8,540 |
| Buildings with manufacturing | 5,078 | 556 | 519 | 787 | 1,231 | 965 | 508 | 512 |
| Buildings with electricity generation | 25,642 | 1,002 | 857 | 1,058 | 2,923 | 4,761 | 6,177 | 8,863 |
| **Percent of floorspace heated** | | | | | | | | |
| Not heated | 7,015 | 4,820 | 481 | 652 | 389 | Q | Q | Q |
| 1 to 50 | 10,130 | 2,527 | 2,012 | 1,543 | 1,988 | 968 | 648 | 444 |
| 51 to 99 | 14,650 | 1,904 | 1,369 | 1,323 | 2,561 | 2,870 | 1,721 | 2,900 |
| 100 | 55,298 | 8,500 | 5,111 | 6,104 | 9,576 | 9,345 | 8,436 | 8,226 |
| **Percent of floorspace cooled** | | | | | | | | |
| Not cooled | 7,799 | 6,156 | 735 | 433 | 295 | Q | Q | N |
| 1 to 50 | 18,891 | 4,108 | 2,862 | 3,207 | 3,724 | 2,240 | 1,977 | 775 |
| 51 to 99 | 22,728 | 2,234 | 1,525 | 2,227 | 3,822 | 4,519 | 3,543 | 4,858 |
| 100 | 37,676 | 5,253 | 3,851 | 3,757 | 6,674 | 6,565 | 5,394 | 6,182 |
| **Percent lit when open** | | | | | | | | |
| Zero | 322 | 290 | Q | Q | N | N | N | N |
| 1 to 50 | 12,628 | 5,292 | 2,241 | 1,545 | 1,750 | 908 | 518 | 375 |
| 51 to 99 | 34,814 | 4,069 | 3,117 | 3,883 | 6,751 | 6,773 | 5,492 | 4,729 |
| 100 | 35,726 | 4,524 | 3,567 | 4,186 | 6,011 | 5,795 | 4,932 | 6,711 |
| Building never open/electricity not used | 3,603 | 3,576 | Q | N | Q | N | N | N |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Percent lit during off hours** | | | | | | | | |
| Zero | 24,746 | 8,412 | 3,865 | 3,571 | 3,546 | 2,276 | 1,747 | 1,330 |
| 1 to 50 | 50,753 | 6,180 | 4,582 | 5,367 | 9,737 | 9,673 | 7,520 | 7,692 |
| 51 to 100 | 6,926 | 597 | 401 | 545 | 866 | 1,060 | 1,172 | 2,285 |
| Building always open with no "off hours" | 2,443 | 340 | Q | Q | 366 | 467 | Q | 507 |
| Electricity not used | 2,225 | 2,221 | Q | N | N | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | | |
| Heat pumps | 11,846 | 1,366 | 1,230 | 1,234 | 2,268 | 2,409 | 1,490 | 1,849 |
| Furnaces | 8,654 | 1,921 | 1,264 | 1,758 | 1,678 | 1,278 | 387 | 367 |
| Individual space heaters | 20,766 | 3,710 | 2,274 | 2,219 | 3,752 | 3,323 | 2,390 | 3,097 |
| District heat | 5,925 | Q | Q | Q | 623 | 669 | 1,096 | 3,053 |
| Boilers | 22,443 | 1,908 | 982 | 1,219 | 3,764 | 4,610 | 4,938 | 5,021 |
| Packaged heating units | 49,188 | 6,967 | 5,320 | 6,041 | 9,817 | 9,055 | 6,596 | 5,393 |
| Other | 1,574 | Q | Q | Q | 448 | Q | 422 | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 3,835 | 2,699 | 2,854 | 2,827 | 1,445 | 886 | 218 |
| Heat pumps | 12,538 | 1,498 | 1,127 | 1,442 | 2,657 | 2,538 | 1,358 | 1,918 |
| Individual air conditioners | 12,420 | 1,963 | 1,204 | 1,348 | 2,253 | 1,630 | 1,868 | 2,153 |
| District chilled water | 4,608 | Q | Q | Q | 505 | 683 | 982 | 1,986 |
| Central chillers | 17,041 | 531 | 334 | 475 | 1,765 | 3,087 | 3,736 | 7,112 |
| Packaged air conditioning units | 45,153 | 4,823 | 3,980 | 5,020 | 9,001 | 9,135 | 6,713 | 6,481 |
| Swamp coolers | 1,918 | 181 | 196 | Q | 312 | 461 | Q | Q |
| Other | 328 | Q | Q | Q | Q | Q | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | |
| Heating | 27,558 | 5,093 | 3,205 | 2,960 | 5,112 | 5,026 | 3,436 | 2,724 |
| Cooling | 30,702 | 5,268 | 3,249 | 3,384 | 5,497 | 5,273 | 3,971 | 4,060 |
| **Water-heating equipment** | | | | | | | | |
| Centralized system | 47,534 | 8,984 | 6,262 | 6,320 | 7,957 | 7,105 | 5,614 | 5,292 |
| Distributed system | 12,688 | 1,713 | 1,188 | 1,690 | 2,282 | 2,192 | 1,893 | 1,730 |
| Combination of centralized and distributed system | 18,793 | 1,086 | 755 | 1,126 | 3,859 | 3,873 | 3,404 | 4,689 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | |
| Incandescent | 38,406 | 4,834 | 3,346 | 3,753 | 6,370 | 6,902 | 5,568 | 7,633 |
| Standard fluorescent | 80,081 | 12,622 | 8,446 | 9,292 | 14,195 | 13,040 | 10,782 | 11,704 |
| Compact fluorescent | 53,816 | 6,162 | 4,404 | 5,181 | 9,078 | 9,597 | 8,461 | 10,933 |
| High-intensity discharge (HID) | 23,396 | 1,664 | 1,445 | 1,673 | 3,603 | 4,563 | 4,441 | 6,007 |
| Halogen | 28,059 | 2,418 | 1,953 | 2,355 | 4,800 | 5,243 | 4,227 | 7,062 |
| LED | 22,071 | 993 | 902 | 1,360 | 3,548 | 4,223 | 4,231 | 6,814 |
| Other | 446 | Q | Q | Q | Q | Q | Q | Q |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | |
| Any refrigeration | 73,645 | 10,252 | 7,466 | 8,231 | 13,005 | 12,696 | 10,456 | 11,539 |
| Walk-in units | 28,361 | 1,110 | 1,132 | 1,695 | 4,819 | 6,582 | 5,592 | 7,432 |
| Cases or cabinets | 28,719 | 1,895 | 1,569 | 1,971 | 4,419 | 5,651 | 5,584 | 7,630 |
| Large cold storage areas | 4,171 | Q | Q | Q | 641 | 988 | 1,059 | 994 |
| Commercial ice makers | 32,734 | 1,648 | 1,553 | 2,466 | 5,227 | 6,404 | 6,584 | 8,852 |
| Residential-type or compact units | 62,381 | 8,745 | 6,349 | 7,070 | 11,172 | 10,606 | 8,529 | 9,909 |
| Vending machines | 43,936 | 2,055 | 2,088 | 3,252 | 7,595 | 9,583 | 8,983 | 10,379 |
| No refrigeration | 13,448 | 7,499 | 1,507 | 1,392 | 1,509 | 780 | 485 | 276 |
| **Office equipment (more than one may apply)** | | | | | | | | |
| Desktop computers | 77,063 | 9,500 | 8,102 | 9,113 | 14,384 | 13,400 | 10,883 | 11,680 |
| With flat screen monitors | 76,160 | 8,869 | 7,940 | 9,064 | 14,329 | 13,400 | 10,878 | 11,680 |
| With multiple monitors | 30,946 | 1,123 | 1,689 | 2,282 | 5,454 | 5,018 | 6,437 | 8,944 |
| Laptop computers | 63,486 | 6,124 | 5,236 | 6,526 | 12,038 | 11,781 | 10,129 | 11,652 |
| Dedicated servers | 53,369 | 2,434 | 3,346 | 5,419 | 10,417 | 11,235 | 9,428 | 11,089 |
| Laser printers | 54,256 | 4,395 | 4,780 | 6,192 | 10,407 | 10,174 | 8,524 | 9,783 |
| Inkjet printers | 36,235 | 6,047 | 4,259 | 4,772 | 6,145 | 5,717 | 4,861 | 4,434 |
| FAX machines | 66,682 | 6,919 | 6,514 | 7,733 | 12,796 | 12,043 | 9,889 | 10,790 |
| Photocopiers | 59,277 | 4,139 | 4,401 | 6,110 | 11,596 | 12,005 | 9,989 | 11,037 |
| **Number of desktop computers** | | | | | | | | |
| None | 10,030 | 8,251 | 871 | 509 | Q | Q | Q | Q |
| 1 to 4 | 15,669 | 7,883 | 3,795 | 2,452 | 1,059 | Q | Q | Q |
| 5 to 9 | 9,422 | 1,110 | 2,981 | 2,670 | 1,824 | 532 | Q | Q |
| 10 to 19 | 9,388 | 186 | 811 | 2,836 | 3,937 | 1,248 | Q | Q |
| 20 to 49 | 13,094 | Q | 456 | 1,009 | 4,582 | 4,600 | 1,915 | Q |
| 50 to 99 | 8,284 | N | Q | Q | 1,655 | 3,872 | 1,989 | 588 |
| 100 to 249 | 9,728 | Q | N | Q | 1,123 | 1,790 | 4,253 | 2,536 |
| 250 or more | 11,478 | N | N | Q | Q | 1,009 | 2,228 | 8,026 |
| **Number of laptop computers** | | | | | | | | |
| None | 23,607 | 11,627 | 3,737 | 3,097 | 2,476 | 1,694 | 812 | Q |
| 1 to 4 | 21,161 | 5,332 | 4,274 | 4,350 | 4,279 | 2,096 | 651 | Q |
| 5 to 9 | 8,345 | 297 | 544 | 1,352 | 2,941 | 1,997 | 722 | Q |
| 10 to 19 | 8,343 | Q | Q | 448 | 2,274 | 2,538 | 2,102 | 768 |
| 20 to 49 | 9,643 | Q | Q | Q | 1,760 | 2,904 | 2,675 | 1,969 |
| 50 to 99 | 5,234 | Q | Q | Q | 365 | 1,197 | 1,542 | 1,925 |
| 100 to 249 | 5,217 | Q | Q | Q | Q | 786 | 1,575 | 2,202 |
| 250 or more | 5,542 | Q | Q | Q | Q | Q | 862 | 4,117 |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Number of dedicated servers** | | | | | | | | |
| None | 33,724 | 15,317 | 5,627 | 4,204 | 4,097 | 2,241 | 1,513 | 726 |
| 1 to 4 | 34,097 | 2,377 | 3,303 | 5,202 | 8,917 | 7,893 | 4,123 | 2,282 |
| 5 to 9 | 6,241 | Q | Q | Q | 778 | 1,973 | 2,105 | 1,215 |
| 10 to 19 | 5,711 | Q | Q | Q | Q | 942 | 1,710 | 2,463 |
| 20 to 49 | 3,758 | N | N | Q | Q | 331 | 1,106 | 2,207 |
| 50 or more | 3,562 | Q | N | Q | Q | Q | Q | 2,922 |
| **Number of photocopiers** | | | | | | | | |
| None | 27,816 | 13,612 | 4,572 | 3,512 | 2,919 | 1,471 | 952 | 778 |
| One | 17,080 | 3,614 | 3,298 | 3,812 | 3,534 | 1,950 | 657 | Q |
| 2 to 4 | 20,312 | 515 | 1,079 | 2,212 | 6,778 | 6,167 | 2,684 | 878 |
| 5 to 9 | 8,863 | Q | Q | Q | 1,107 | 2,945 | 3,385 | 1,337 |
| 10 or more | 13,022 | N | N | Q | Q | 943 | 3,263 | 8,608 |
| **Number of TVs or video displays** | | | | | | | | |
| None | 24,339 | 10,826 | 3,738 | 2,986 | 3,351 | 1,803 | 1,157 | 479 |
| One | 9,990 | 2,850 | 1,859 | 1,850 | 1,730 | 1,220 | Q | Q |
| 2 to 4 | 16,465 | 2,485 | 2,082 | 2,909 | 3,563 | 2,920 | 1,718 | 788 |
| 5 to 9 | 8,148 | 608 | 562 | 748 | 1,645 | 1,757 | 1,614 | 1,212 |
| 10 to 19 | 8,168 | 358 | Q | 206 | 1,901 | 1,790 | 1,662 | 2,032 |
| 20 to 49 | 8,058 | Q | Q | Q | 1,223 | 2,218 | 2,035 | 1,917 |
| 50 to 99 | 4,378 | Q | Q | 359 | 442 | 775 | 1,556 | 1,028 |
| 100 or more | 7,547 | Q | Q | 347 | 659 | 993 | 843 | 4,234 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | |
| Snack bar or concession stand | 9,884 | 423 | Q | 466 | 996 | 1,860 | 2,276 | 3,627 |
| Fast food or small restaurant | 9,787 | 152 | 331 | 422 | 1,567 | 1,878 | 2,045 | 3,394 |
| Cafeteria or large restaurant | 15,222 | Q | Q | 220 | 2,006 | 4,022 | 3,238 | 5,545 |
| Commercial kitchen/ food preparation area | 16,150 | 908 | 270 | 678 | 2,840 | 4,019 | 3,324 | 4,111 |
| Small kitchen area | 14,054 | 2,451 | 1,344 | 1,531 | 2,152 | 1,888 | 1,988 | 2,699 |
| **Separate computer areas (more than one may apply)** | | | | | | | | |
| Data center or server farm | 11,105 | Q | Q | Q | 640 | 1,341 | 2,766 | 6,137 |
| Computer-based training room | 17,723 | Q | 457 | 536 | 2,811 | 4,000 | 3,980 | 5,823 |
| Student or public computer center | 14,341 | 387 | 341 | 763 | 2,878 | 4,123 | 3,617 | 2,233 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | |
| Economizer cycle | 30,749 | 1,306 | 1,068 | 1,741 | 5,096 | 6,458 | 6,707 | 8,372 |
| Regular HVAC maintenance | 69,244 | 7,487 | 6,092 | 7,631 | 12,999 | 12,504 | 10,773 | 11,759 |
| Building automation system (BAS)[2] | 37,051 | 1,805 | 1,665 | 1,807 | 5,777 | 7,791 | 8,283 | 9,921 |

## Table B16. Employment size category, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Number of workers | | | | | | |
| | All buildings | Fewer than 5 workers | 5 to 9 workers | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | 100 to 249 workers | 250 or more workers |
| **All buildings** | 87,093 | 17,751 | 8,973 | 9,623 | 14,514 | 13,476 | 10,941 | 11,815 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | |
| Multipaned windows | 60,362 | 8,759 | 5,648 | 6,431 | 10,699 | 10,800 | 8,685 | 9,339 |
| Tinted window glass | 45,025 | 5,507 | 3,612 | 4,157 | 8,059 | 8,361 | 7,229 | 8,099 |
| Reflective window glass | 15,908 | 1,453 | 1,112 | 1,217 | 2,545 | 2,874 | 2,691 | 4,016 |
| External overhangs or awnings | 32,188 | 4,240 | 3,562 | 3,722 | 6,005 | 5,730 | 4,542 | 4,389 |
| Skylights or atriums | 22,261 | 1,911 | 1,430 | 1,626 | 3,772 | 4,159 | 4,285 | 5,077 |
| Light scheduling | 30,263 | 2,165 | 2,102 | 2,350 | 4,866 | 6,231 | 4,817 | 7,732 |
| Occupancy sensors | 35,871 | 2,046 | 1,623 | 2,421 | 5,986 | 7,676 | 7,093 | 9,027 |
| Multi-level lighting or dimming | 14,534 | 734 | 656 | 908 | 2,713 | 3,082 | 2,933 | 3,509 |
| Daylight harvesting | 6,114 | 280 | 280 | Q | 1,055 | 1,003 | 1,425 | 1,856 |
| Demand responsive lighting | 4,738 | 323 | 296 | 440 | 1,000 | 1,035 | 988 | 656 |
| Building automation system (BAS) for lighting[2] | 12,068 | 217 | 610 | 507 | 1,871 | 2,614 | 2,613 | 3,635 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | |
| Heating | 63,167 | 9,710 | 6,343 | 6,934 | 11,237 | 11,100 | 8,888 | 8,956 |
| Cooling | 62,516 | 8,679 | 6,268 | 7,055 | 11,237 | 11,149 | 8,937 | 9,191 |
| Lighting | 78,594 | 12,874 | 8,611 | 9,178 | 13,834 | 12,628 | 10,322 | 11,147 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,435 | 1,311 | 881 | 108 | 135 | 342 | Q | 81 | 252 |
| 5,001 to 10,000 | 1,229 | 1,101 | 570 | 402 | 88 | 41 | 129 | Q | Q | 104 |
| 10,001 to 25,000 | 884 | 753 | 377 | 260 | 85 | 30 | 131 | Q | 37 | 88 |
| 25,001 to 50,000 | 332 | 265 | 114 | 103 | 38 | Q | 67 | Q | 17 | 45 |
| 50,001 to 100,000 | 199 | 130 | 52 | 59 | 16 | Q | 69 | Q | 20 | 47 |
| 100,001 to 200,000 | 90 | 65 | 31 | 26 | 7 | Q | 25 | Q | 10 | 15 |
| 200,001 to 500,000 | 38 | 27 | 11 | 11 | 5 | Q | 11 | Q | 4 | 7 |
| Over 500,000 | 8 | 6 | 2 | 3 | 2 | Q | 2 | 1 | Q | 1 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 162 | 124 | 33 | Q | N | 227 | Q | 60 | 162 |
| Food sales | 177 | 177 | 93 | 69 | Q | N | N | N | N | N |
| Food service | 380 | 364 | 202 | 157 | Q | N | Q | N | Q | Q |
| Health care | 157 | 145 | 79 | 44 | 22 | N | 12 | Q | 3 | 8 |
| Inpatient | 10 | 7 | 5 | Q | 1 | N | 2 | (*) | Q | 2 |
| Outpatient | 147 | 138 | 74 | 43 | 21 | N | 9 | Q | Q | Q |
| Lodging | 158 | 151 | 119 | 29 | 3 | N | 7 | N | Q | Q |
| Mercantile | 602 | 598 | 233 | 314 | 51 | N | Q | Q | Q | Q |
| Retail (other than mall) | 438 | 434 | 233 | 179 | 23 | N | Q | N | Q | Q |
| Enclosed and strip malls | 164 | 164 | N | 135 | 29 | N | Q | Q | N | N |
| Office | 1,012 | 862 | 370 | 357 | 135 | N | 150 | 9 | 43 | 98 |
| Public assembly | 352 | 234 | 163 | 53 | 18 | N | 118 | Q | 21 | 97 |
| Public order and safety | 84 | Q | Q | Q | Q | N | 70 | Q | Q | 64 |
| Religious worship | 412 | 411 | 368 | 32 | Q | N | Q | N | N | Q |
| Service | 619 | 544 | 282 | 237 | 25 | N | 74 | Q | Q | 49 |
| Warehouse and storage | 796 | 743 | 334 | 364 | 44 | N | 53 | Q | Q | Q |
| Other | 125 | 109 | 65 | 36 | Q | N | Q | Q | Q | Q |
| Vacant | 296 | 267 | Q | 20 | Q | 221 | 29 | Q | Q | 24 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 320 | 184 | 87 | 26 | Q | 42 | Q | Q | 34 |
| 1920 to 1945 | 488 | 415 | 250 | 122 | 17 | Q | 73 | Q | 18 | 52 |
| 1946 to 1959 | 599 | 514 | 258 | 164 | 38 | 54 | 85 | Q | 25 | 60 |
| 1960 to 1969 | 639 | 528 | 264 | 199 | 36 | 29 | 111 | Q | 36 | 68 |
| 1970 to 1979 | 684 | 596 | 311 | 219 | 39 | 27 | 88 | Q | 24 | 59 |
| 1980 to 1989 | 915 | 805 | 344 | 350 | 80 | Q | 110 | Q | 24 | 78 |
| 1990 to 1999 | 845 | 731 | 386 | 283 | 51 | Q | 114 | 3 | 18 | 93 |
| 2000 to 2003 | 375 | 310 | 183 | 104 | 16 | Q | 65 | Q | 14 | 47 |
| 2004 to 2007 | 347 | 302 | 144 | 127 | 24 | Q | 45 | Q | Q | 33 |
| 2008 to 2012 | 303 | 260 | 143 | 90 | 21 | Q | 42 | N | Q | 33 |
| **Census region** | | | | | | | | | | |
| Northeast | 805 | 723 | 400 | 239 | 62 | Q | 83 | Q | 15 | 67 |
| Midwest | 1,237 | 1,066 | 629 | 329 | 69 | 40 | 171 | 9 | 31 | 131 |
| South | 2,247 | 1,958 | 983 | 721 | 140 | 115 | 289 | 14 | 77 | 198 |
| West | 1,267 | 1,034 | 455 | 457 | 78 | 43 | 233 | Q | 62 | 162 |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,752 | 998 | 560 | 130 | 65 | 278 | 16 | 55 | 207 |
| Mixed-humid | 1,743 | 1,551 | 764 | 607 | 103 | 76 | 193 | 13 | 50 | 129 |
| Mixed-dry/Hot-dry | 837 | 679 | 305 | 286 | 53 | 35 | 158 | Q | 33 | 124 |
| Hot-humid | 799 | 674 | 351 | 228 | 53 | 43 | 125 | Q | 39 | 84 |
| Marine | 147 | 125 | 49 | 64 | Q | Q | 22 | Q | Q | 15 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 3,290 | 1,651 | 1,288 | 183 | 169 | 546 | 21 | 112 | 413 |
| Two | 1,158 | 1,010 | 552 | 321 | 98 | 38 | 148 | Q | 48 | 90 |
| Three | 374 | 328 | 191 | 84 | 42 | Q | 46 | Q | 10 | 35 |
| Four to nine | 177 | 142 | 70 | 46 | 23 | Q | 35 | 1 | 14 | 20 |
| Ten or more | 13 | 11 | 2 | 5 | 3 | Q | 2 | 1 | 1 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | | |
| Any elevators | 405 | 305 | 147 | 94 | 58 | 5 | 100 | 7 | 34 | 60 |
| Number of elevators | | | | | | | | | | |
| One | 272 | 204 | 105 | 57 | 38 | Q | 67 | Q | 23 | 41 |
| Two to five | 118 | 88 | 38 | 32 | 17 | Q | 30 | Q | 10 | 16 |
| Six or more | 16 | 13 | 4 | 5 | 4 | Q | 3 | 1 | 1 | 2 |
| Any escalators | 10 | 8 | 2 | 5 | 1 | Q | 2 | Q | Q | 1 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 2,586 | 1,418 | 838 | 108 | 221 | 306 | Q | 77 | 218 |
| 5 to 9 | 1,085 | 941 | 506 | 345 | 90 | N | 144 | Q | 28 | 111 |
| 10 to 19 | 731 | 613 | 294 | 263 | 56 | N | 118 | Q | 24 | 90 |
| 20 to 49 | 513 | 411 | 165 | 185 | 60 | N | 102 | Q | 23 | 74 |
| 50 to 99 | 206 | 133 | 49 | 69 | 15 | N | 72 | Q | 24 | 44 |
| 100 to 249 | 93 | 68 | 27 | 29 | 13 | N | 25 | Q | 5 | 17 |
| 250 or more | 37 | 29 | 8 | 15 | 6 | N | 8 | 1 | 3 | 4 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 998 | 582 | 173 | Q | 221 | 151 | Q | 28 | 119 |
| 40 to 48 | 1,346 | 1,098 | 556 | 423 | 119 | N | 248 | Q | 69 | 171 |
| 49 to 60 | 1,244 | 1,080 | 542 | 434 | 104 | N | 164 | 7 | 40 | 117 |
| 61 to 84 | 764 | 676 | 300 | 328 | 47 | N | 88 | Q | 21 | 59 |
| 85 to 167 | 479 | 443 | 212 | 201 | 30 | N | 36 | Q | 14 | 20 |
| Open continuously | 575 | 487 | 274 | 186 | 27 | N | 88 | Q | 13 | 73 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 4,715 | 3,984 | 2,416 | 1,062 | 304 | 202 | 731 | 31 | 173 | 527 |
| Business owner or tenant | 724 | 698 | Q | 619 | 39 | Q | 26 | Q | Q | 19 |
| Property management | 54 | 53 | Q | 40 | Q | Q | Q | Q | N | Q |
| Other | 64 | 47 | Q | 24 | Q | Q | Q | Q | Q | Q |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 4,876 | 4,144 | 2,432 | 1,186 | 318 | 208 | 733 | 31 | 176 | 525 |
| Business owner or tenant | 540 | 520 | Q | 471 | 24 | Q | 20 | Q | Q | Q |
| Property management | 35 | 34 | Q | 30 | Q | N | Q | Q | N | Q |
| Other | 106 | 83 | 17 | 58 | Q | Q | 23 | Q | Q | 19 |
| **Number of establishments** | | | | | | | | | | |
| One | 4,205 | 3,537 | 2,318 | 1,220 | N | N | 668 | 27 | 164 | 477 |
| 2 to 5 | 862 | 782 | 142 | 351 | 289 | N | 80 | 6 | 17 | 58 |
| 6 to 10 | 147 | 147 | Q | 103 | 40 | N | Q | Q | Q | Q |
| 11 to 20 | 68 | 67 | Q | 52 | 12 | N | Q | Q | Q | Q |
| More than 20 | 27 | 27 | N | 20 | 7 | N | Q | Q | N | Q |
| Currently unoccupied | 248 | 221 | N | N | N | 221 | 27 | N | Q | 22 |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 3,355 | 1,729 | 1,177 | 273 | 176 | 328 | 20 | 44 | 264 |
| Primary or secondary school | 237 | 50 | 42 | Q | Q | N | 187 | Q | 56 | 128 |
| College or university | 84 | 47 | 44 | Q | Q | N | 37 | Q | 33 | Q |
| Office complex | 154 | 142 | 34 | 79 | 25 | Q | 12 | Q | Q | Q |
| Retail complex | 258 | 250 | 79 | 156 | 10 | Q | Q | N | Q | Q |
| Storage complex | 314 | 308 | 98 | 187 | Q | Q | Q | N | Q | Q |
| Religious campus or complex | 197 | 197 | 182 | Q | Q | Q | N | N | N | N |
| Health care complex | 52 | 43 | 27 | 10 | Q | Q | 9 | (*) | Q | Q |
| Lodging or resort complex | 65 | 64 | 51 | Q | Q | Q | Q | N | Q | N |
| Transportation complex | 35 | 19 | Q | Q | Q | N | Q | N | Q | Q |
| Government complex | 104 | Q | Q | Q | Q | N | 101 | 7 | 25 | 69 |
| Other | 371 | 302 | 173 | 100 | 15 | Q | 69 | Q | 15 | 52 |
| **Predominant exterior wall material** | | | | | | | | | | |
| Brick, stone, or stucco | 2,312 | 1,947 | 971 | 713 | 164 | 99 | 365 | 16 | 85 | 264 |
| Concrete (block or poured) | 1,121 | 973 | 479 | 377 | 68 | 48 | 148 | Q | 36 | 105 |
| Concrete panels | 210 | 196 | 67 | 95 | 24 | Q | 14 | Q | 4 | 10 |
| Siding or shingles | 905 | 768 | 441 | 254 | 41 | Q | 137 | Q | 30 | 102 |
| Metal panels | 933 | 827 | 472 | 280 | 44 | Q | 106 | Q | 25 | 76 |
| Window glass | 17 | 15 | Q | 6 | 2 | Q | Q | Q | Q | Q |
| Other | 37 | 34 | 18 | 13 | Q | N | Q | Q | Q | Q |
| No one major type | 21 | 20 | Q | Q | Q | N | Q | Q | Q | Q |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Predominant roof material** | | | | | | | | | | |
| Metal surfacing | 1,672 | 1,448 | 827 | 488 | 80 | 53 | 224 | Q | 58 | 157 |
| Synthetic or rubber | 911 | 772 | 351 | 300 | 88 | 32 | 139 | 11 | 35 | 93 |
| Built-up | 836 | 663 | 258 | 298 | 62 | 44 | 173 | 6 | 39 | 129 |
| Slate or tile shingles | 406 | 365 | 186 | 145 | 19 | Q | 41 | Q | Q | 34 |
| Wooden materials (including shingles) | 157 | 146 | 63 | 76 | Q | Q | Q | N | Q | Q |
| Asphalt, fiberglass, or other shingles | 1,483 | 1,308 | 755 | 392 | 88 | 73 | 175 | Q | 38 | 132 |
| Concrete | 51 | 47 | 11 | 31 | Q | Q | 4 | Q | Q | Q |
| Other | 24 | 16 | Q | Q | Q | N | Q | N | Q | Q |
| No one major type | 18 | 16 | Q | Q | Q | N | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | | | |
| Roof tilt | | | | | | | | | | |
| Flat | 1,960 | 1,680 | 656 | 800 | 141 | 83 | 280 | 22 | 77 | 181 |
| Shallow pitch | 2,148 | 1,871 | 1,012 | 633 | 136 | 90 | 277 | Q | 67 | 201 |
| Steeper pitch | 1,449 | 1,230 | 799 | 311 | 72 | 48 | 219 | Q | 41 | 176 |
| Cool roof | 740 | 601 | 339 | 198 | 52 | Q | 139 | 7 | 34 | 98 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 2,094 | 1,785 | 941 | 627 | 163 | 54 | 310 | 9 | 73 | 227 |
| Addition or annex | 444 | 363 | 234 | 88 | 35 | Q | 81 | Q | 20 | 57 |
| Reduction in floorspace | 71 | 64 | 26 | 21 | 10 | Q | Q | Q | Q | Q |
| Roof replacement | 987 | 817 | 466 | 256 | 67 | Q | 170 | 5 | 39 | 125 |
| Exterior wall replacement | 194 | 169 | 90 | 59 | 13 | Q | 26 | Q | 5 | 18 |
| Interior wall reconfiguration | 889 | 777 | 346 | 316 | 89 | 25 | 113 | 5 | 26 | 81 |
| Window replacement | 560 | 471 | 262 | 155 | 46 | Q | 89 | Q | 19 | 69 |
| HVAC equipment upgrade | 1,101 | 919 | 499 | 286 | 107 | 28 | 181 | 5 | 40 | 136 |
| Lighting upgrade | 982 | 805 | 419 | 283 | 84 | Q | 177 | 5 | 43 | 129 |
| Electrical upgrade | 747 | 653 | 345 | 221 | 65 | Q | 94 | 2 | 25 | 67 |
| Plumbing system upgrade | 644 | 557 | 290 | 199 | 51 | Q | 87 | 2 | 18 | 67 |
| Insulation upgrade | 382 | 320 | 175 | 104 | 35 | Q | 62 | Q | 11 | 49 |
| Fire, safety, or security upgrade | 616 | 522 | 291 | 167 | 56 | Q | 93 | 3 | 24 | 66 |
| Structural upgrade | 152 | 131 | 74 | 36 | 16 | Q | 21 | Q | Q | 16 |
| Other | 39 | 29 | Q | Q | Q | N | Q | Q | Q | Q |
| No renovations | 3,160 | 2,736 | 1,382 | 1,028 | 165 | 161 | 424 | 24 | 103 | 298 |
| Buildings constructed 2008 or later | 303 | 260 | 143 | 90 | 21 | Q | 42 | N | Q | 33 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 4,480 | 2,395 | 1,675 | 344 | 66 | 755 | 33 | 183 | 538 |
| Natural gas | 2,933 | 2,489 | 1,317 | 951 | 198 | 23 | 444 | 21 | 100 | 322 |
| Fuel oil | 467 | 365 | 223 | 108 | 29 | Q | 101 | Q | 15 | 83 |
| District heat | 48 | 22 | 13 | Q | 2 | Q | 26 | 1 | 18 | 7 |
| District chilled water | 54 | 17 | 14 | 2 | 1 | N | 37 | Q | 20 | 16 |
| Propane | 510 | 435 | 297 | 107 | 29 | Q | 75 | Q | 13 | 57 |
| Other | 172 | 145 | 100 | 31 | 13 | Q | 27 | Q | Q | 16 |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,858 | 2,464 | 1,264 | 958 | 221 | 22 | 394 | 19 | 100 | 275 |
| Natural gas | 2,612 | 2,203 | 1,162 | 838 | 181 | 22 | 409 | 18 | 91 | 300 |
| Fuel oil | 270 | 234 | 145 | 69 | 15 | Q | 36 | Q | Q | 32 |
| District heat | 48 | 22 | 13 | Q | 2 | Q | 26 | 1 | 18 | 7 |
| Propane | 342 | 290 | 202 | 67 | 19 | Q | 52 | Q | Q | 38 |
| Other | 101 | 96 | 72 | Q | Q | N | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 1,819 | 1,600 | 834 | 611 | 136 | Q | 219 | Q | 58 | 149 |
| Natural gas | 2,322 | 1,944 | 1,025 | 735 | 163 | 21 | 378 | 17 | 81 | 281 |
| Fuel oil | 205 | 176 | 109 | 52 | Q | Q | 29 | Q | Q | 26 |
| District heat | 47 | 21 | 13 | Q | 2 | Q | 26 | 1 | 18 | 7 |
| Propane | 261 | 223 | 171 | 43 | Q | Q | 38 | Q | Q | 26 |
| Other | 67 | 63 | 47 | Q | Q | N | Q | N | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 4,413 | 3,802 | 2,038 | 1,415 | 322 | 26 | 611 | 32 | 142 | 437 |
| Natural gas | 12 | 11 | Q | Q | Q | N | Q | Q | Q | Q |
| District chilled water | 54 | 17 | 14 | 2 | 1 | N | 37 | Q | 20 | 16 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,658 | 2,323 | 1,195 | 904 | 213 | Q | 335 | 18 | 75 | 242 |
| Natural gas | 1,758 | 1,482 | 806 | 541 | 121 | Q | 275 | 14 | 66 | 195 |
| Fuel oil | 77 | 63 | 45 | Q | Q | N | 14 | Q | Q | 12 |
| District heat | 25 | 13 | 10 | 1 | 2 | N | 12 | 1 | 10 | 2 |
| Propane | 142 | 120 | 86 | 27 | Q | Q | 22 | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 1,010 | 846 | 544 | 253 | 46 | Q | 165 | 7 | 27 | 131 |
| Natural gas | 740 | 646 | 352 | 247 | 44 | Q | 94 | 1 | 19 | 73 |
| Propane | 144 | 125 | 87 | 30 | Q | N | 19 | Q | Q | 17 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 4,028 | 2,198 | 1,458 | 325 | 47 | 694 | 33 | 168 | 493 |
| Buildings with cooling | 4,461 | 3,817 | 2,046 | 1,421 | 324 | 26 | 644 | 33 | 159 | 452 |
| Buildings with water heating | 4,423 | 3,791 | 2,048 | 1,401 | 316 | 26 | 632 | 33 | 146 | 452 |
| Buildings with cooking | 1,589 | 1,359 | 854 | 416 | 82 | Q | 230 | 8 | 40 | 182 |
| Buildings with manufacturing | 259 | 248 | 130 | 100 | 18 | N | 10 | Q | Q | Q |
| Buildings with electricity generation | 410 | 266 | 160 | 75 | 30 | Q | 144 | 6 | 27 | 111 |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 835 | 753 | 268 | 287 | 24 | 174 | 82 | Q | Q | 65 |
| 1 to 50 | 697 | 640 | 323 | 253 | 56 | Q | 57 | Q | Q | 37 |
| 51 to 99 | 727 | 623 | 326 | 231 | 61 | Q | 103 | 4 | 26 | 73 |
| 100 | 3,298 | 2,764 | 1,549 | 974 | 208 | 34 | 534 | 24 | 127 | 383 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | 964 | 420 | 323 | Q | 195 | 132 | N | 26 | 106 |
| 1 to 50 | 1,173 | 1,033 | 524 | 411 | 94 | Q | 140 | Q | 29 | 102 |
| 51 to 99 | 897 | 755 | 394 | 289 | 69 | Q | 143 | 5 | 41 | 97 |
| 100 | 2,391 | 2,030 | 1,128 | 722 | 161 | Q | 361 | 19 | 89 | 253 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 70 | 67 | Q | Q | Q | N | Q | N | Q | Q |
| 1 to 50 | 1,099 | 977 | 564 | 333 | 80 | N | 122 | Q | 24 | 90 |
| 51 to 99 | 1,666 | 1,422 | 703 | 567 | 152 | N | 244 | 15 | 69 | 160 |
| 100 | 2,222 | 1,859 | 1,052 | 697 | 110 | N | 363 | 10 | 81 | 271 |
| Building never open/electricity not used | 501 | 456 | 127 | 102 | Q | 221 | 45 | Q | Q | 36 |
| **Percent lit during off hours** | | | | | | | | | | |
| Zero | 2,489 | 2,101 | 1,217 | 711 | 128 | 45 | 388 | Q | 102 | 274 |
| 1 to 50 | 2,441 | 2,111 | 1,035 | 852 | 203 | 21 | 330 | 21 | 77 | 232 |
| 51 to 100 | 202 | 178 | 94 | 74 | 10 | N | 24 | Q | 4 | 19 |
| Building always open with no "off hours" | 102 | 89 | 48 | 38 | Q | N | 13 | Q | Q | Q |
| Electricity not used | 323 | 301 | 71 | 69 | Q | 155 | Q | N | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 628 | 507 | 286 | 164 | 54 | Q | 121 | Q | 28 | 90 |
| Furnaces | 755 | 681 | 378 | 236 | 57 | Q | 74 | Q | 19 | 51 |
| Individual space heaters | 1,247 | 1,068 | 585 | 383 | 91 | Q | 179 | Q | 45 | 126 |
| District heat | 48 | 22 | 13 | Q | 2 | Q | 26 | 1 | 18 | 7 |
| Boilers | 544 | 405 | 243 | 120 | 38 | Q | 139 | 7 | 31 | 102 |
| Packaged heating units | 2,802 | 2,443 | 1,249 | 969 | 201 | 25 | 359 | 20 | 84 | 255 |
| Other | 62 | 55 | 26 | 26 | Q | Q | Q | Q | Q | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 1,398 | 767 | 507 | 115 | Q | 148 | Q | 34 | 102 |
| Heat pumps | 692 | 567 | 323 | 183 | 58 | Q | 125 | Q | 30 | 93 |
| Individual air conditioners | 709 | 600 | 342 | 203 | 50 | Q | 109 | Q | 21 | 82 |
| District chilled water | 54 | 17 | 14 | 2 | 1 | N | 37 | Q | 20 | 16 |
| Central chillers | 163 | 89 | 52 | 24 | 11 | Q | 74 | 6 | 21 | 47 |
| Packaged air conditioning units | 1,909 | 1,646 | 790 | 692 | 155 | Q | 263 | 12 | 62 | 190 |
| Swamp coolers | 109 | 96 | 58 | 36 | Q | N | 14 | Q | Q | Q |
| Other | Q | Q | Q | Q | Q | N | Q | Q | Q | Q |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 1,874 | 1,624 | 904 | 569 | 137 | Q | 250 | 11 | 73 | 166 |
| Cooling | 1,971 | 1,729 | 945 | 626 | 146 | Q | 242 | 12 | 67 | 163 |
| **Water-heating equipment** | | | | | | | | | | |
| Centralized system | 3,348 | 2,851 | 1,634 | 1,001 | 195 | 21 | 497 | 29 | 106 | 362 |
| Distributed system | 690 | 617 | 289 | 251 | 75 | Q | 72 | Q | 22 | 50 |
| Combination of centralized and distributed system | 385 | 323 | 125 | 149 | 46 | Q | 62 | 3 | 19 | 40 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | |
| Incandescent | 1,826 | 1,637 | 910 | 575 | 147 | Q | 189 | 12 | 46 | 132 |
| Standard fluorescent | 4,649 | 3,955 | 2,104 | 1,501 | 329 | 20 | 695 | 33 | 166 | 496 |
| Compact fluorescent | 2,302 | 1,997 | 1,096 | 721 | 177 | Q | 305 | 15 | 82 | 208 |
| High-intensity discharge (HID) | 525 | 421 | 189 | 178 | 54 | Q | 104 | 6 | 29 | 69 |
| Halogen | 905 | 826 | 408 | 325 | 93 | Q | 79 | 8 | 25 | 45 |
| LED | 473 | 395 | 169 | 179 | 47 | Q | 78 | Q | 19 | 55 |
| Other | 10 | Q | Q | Q | Q | N | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | | |
| Any refrigeration | 3,984 | 3,449 | 1,899 | 1,247 | 288 | Q | 535 | 26 | 124 | 385 |
| Walk-in units | 811 | 711 | 345 | 315 | 49 | Q | 100 | 2 | 24 | 74 |
| Cases or cabinets | 915 | 812 | 411 | 340 | 57 | Q | 103 | Q | 20 | 80 |
| Large cold storage areas | 78 | 73 | 32 | 33 | 7 | N | 6 | Q | Q | 3 |
| Commercial ice makers | 846 | 726 | 395 | 273 | 54 | Q | 120 | 2 | 40 | 77 |
| Residential-type or compact units | 3,388 | 2,924 | 1,625 | 1,030 | 259 | Q | 464 | 23 | 106 | 334 |
| Vending machines | 960 | 763 | 346 | 332 | 82 | Q | 197 | 11 | 62 | 124 |
| No refrigeration | 1,573 | 1,332 | 568 | 498 | 61 | 206 | 241 | Q | 61 | 174 |
| **Office equipment (more than one may apply)** | | | | | | | | | | |
| Desktop computers | 3,977 | 3,353 | 1,728 | 1,314 | 308 | Q | 624 | 32 | 151 | 441 |
| With flat screen monitors | 3,847 | 3,236 | 1,652 | 1,276 | 305 | Q | 611 | 32 | 147 | 432 |
| With multiple monitors | 911 | 768 | 305 | 351 | 112 | N | 143 | 8 | 45 | 90 |
| Laptop computers | 2,730 | 2,293 | 1,103 | 944 | 244 | Q | 437 | 15 | 109 | 314 |
| Dedicated servers | 1,748 | 1,481 | 675 | 630 | 175 | Q | 267 | 14 | 66 | 187 |
| Laser printers | 2,339 | 1,938 | 923 | 810 | 205 | Q | 401 | 24 | 88 | 289 |
| Inkjet printers | 2,187 | 1,883 | 1,004 | 711 | 167 | Q | 305 | 10 | 71 | 224 |
| FAX machines | 3,185 | 2,746 | 1,370 | 1,097 | 275 | Q | 439 | 24 | 95 | 320 |
| Photocopiers | 2,163 | 1,785 | 935 | 654 | 193 | Q | 378 | 17 | 91 | 270 |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Number of desktop computers** | | | | | | | | | | |
| None | 1,581 | 1,429 | 738 | 430 | 41 | 219 | 152 | Q | 34 | 117 |
| 1 to 4 | 2,039 | 1,816 | 1,051 | 672 | 91 | Q | 223 | Q | 45 | 163 |
| 5 to 9 | 821 | 709 | 353 | 284 | 72 | N | 112 | Q | 28 | 74 |
| 10 to 19 | 482 | 415 | 166 | 174 | 75 | N | 67 | Q | 17 | 48 |
| 20 to 49 | 355 | 258 | 102 | 115 | 40 | Q | 97 | Q | 24 | 72 |
| 50 to 99 | 143 | 84 | 30 | 39 | 14 | N | 60 | Q | 19 | 38 |
| 100 to 249 | 92 | 47 | 18 | 19 | 10 | N | 45 | Q | 12 | 32 |
| 250 or more | 44 | 24 | 8 | 11 | 5 | N | 20 | 1 | 5 | 14 |
| **Number of laptop computers** | | | | | | | | | | |
| None | 2,827 | 2,488 | 1,363 | 801 | 105 | 219 | 339 | Q | 76 | 244 |
| 1 to 4 | 1,944 | 1,702 | 883 | 664 | 152 | Q | 242 | Q | 52 | 182 |
| 5 to 9 | 350 | 297 | 108 | 141 | 48 | N | 53 | Q | 12 | 38 |
| 10 to 19 | 181 | 146 | 49 | 75 | 22 | N | 35 | Q | 8 | 25 |
| 20 to 49 | 144 | 87 | 38 | 36 | 14 | N | 56 | Q | 19 | 36 |
| 50 to 99 | 58 | 31 | 12 | 15 | 4 | N | 26 | Q | 8 | 18 |
| 100 to 249 | 35 | 18 | 9 | 6 | 3 | N | 16 | Q | 6 | 10 |
| 250 or more | 20 | 12 | 5 | 6 | 2 | N | 8 | (*) | 2 | 5 |
| **Number of dedicated servers** | | | | | | | | | | |
| None | 3,809 | 3,300 | 1,792 | 1,114 | 173 | 221 | 509 | Q | 119 | 371 |
| 1 to 4 | 1,562 | 1,342 | 629 | 565 | 147 | Q | 220 | 9 | 49 | 162 |
| 5 to 9 | 97 | 76 | 19 | 44 | 13 | N | 21 | Q | 9 | 10 |
| 10 to 19 | 50 | 35 | 16 | 10 | 9 | N | 15 | Q | 6 | 8 |
| 20 to 49 | 25 | 18 | 6 | 7 | 4 | N | 8 | Q | 2 | 6 |
| 50 or more | 13 | 10 | 4 | 5 | 2 | N | 3 | (*) | Q | Q |
| **Number of photocopiers** | | | | | | | | | | |
| None | 3,394 | 2,997 | 1,531 | 1,090 | 156 | 219 | 398 | Q | 93 | 289 |
| One | 1,325 | 1,138 | 671 | 379 | 85 | Q | 187 | Q | 36 | 141 |
| 2 to 4 | 648 | 510 | 225 | 208 | 77 | N | 137 | Q | 39 | 94 |
| 5 to 9 | 116 | 78 | 19 | 40 | 20 | N | 37 | Q | 11 | 23 |
| 10 or more | 75 | 57 | 20 | 27 | 11 | N | 17 | 1 | 5 | 11 |
| **Number of TVs or video displays** | | | | | | | | | | |
| None | 2,718 | 2,384 | 1,154 | 868 | 143 | 219 | 333 | Q | 74 | 244 |
| One | 1,145 | 984 | 558 | 373 | 52 | Q | 160 | Q | 36 | 113 |
| 2 to 4 | 1,035 | 883 | 472 | 311 | 98 | Q | 153 | Q | 36 | 113 |
| 5 to 9 | 314 | 273 | 149 | 94 | 31 | N | 41 | Q | 12 | 29 |
| 10 to 19 | 154 | 110 | 51 | 48 | 11 | N | 44 | Q | 12 | 29 |
| 20 to 49 | 106 | 80 | 37 | 35 | 8 | N | 26 | Q | 5 | 20 |
| 50 to 99 | 48 | 39 | 26 | 9 | 3 | N | 10 | Q | 3 | 7 |
| 100 or more | 37 | 28 | 20 | 6 | 2 | N | 9 | (*) | 6 | 3 |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 153 | 123 | 57 | 47 | 19 | N | 30 | 1 | 8 | 21 |
| Fast food or small restaurant | 173 | 169 | 43 | 99 | 27 | N | 5 | Q | Q | 3 |
| Cafeteria or large restaurant | 130 | 64 | 29 | 25 | 10 | N | 66 | 1 | 13 | 52 |
| Commercial kitchen/ food preparation area | 282 | 221 | 137 | 60 | 22 | Q | 61 | (*) | 13 | 48 |
| Small kitchen area | 736 | 616 | 459 | 113 | 39 | Q | 119 | Q | 17 | 96 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 97 | 65 | 31 | 25 | 9 | N | 31 | Q | 9 | 20 |
| Computer-based training room | 244 | 158 | 69 | 68 | 20 | N | 86 | 2 | 28 | 55 |
| Student or public computer center | 238 | 121 | 69 | 38 | 15 | N | 117 | Q | 28 | 88 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 601 | 429 | 217 | 167 | 41 | Q | 172 | 6 | 45 | 121 |
| Regular HVAC maintenance | 3,178 | 2,630 | 1,436 | 935 | 234 | 26 | 547 | 28 | 143 | 376 |
| Building automation system (BAS)[2] | 781 | 538 | 279 | 206 | 51 | Q | 243 | 9 | 61 | 173 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | |
| Multipaned windows | 3,012 | 2,586 | 1,400 | 887 | 219 | 80 | 426 | 20 | 95 | 311 |
| Tinted window glass | 1,875 | 1,598 | 780 | 618 | 159 | 41 | 277 | 11 | 67 | 199 |
| Reflective window glass | 549 | 489 | 237 | 193 | 57 | Q | 60 | 5 | 16 | 39 |
| External overhangs or awnings | 1,867 | 1,633 | 777 | 680 | 140 | 36 | 234 | 9 | 68 | 157 |
| Skylights or atriums | 591 | 508 | 225 | 208 | 63 | Q | 83 | 6 | 26 | 50 |
| Light scheduling | 918 | 787 | 348 | 360 | 76 | Q | 130 | 11 | 33 | 86 |
| Occupancy sensors | 813 | 612 | 251 | 300 | 61 | Q | 201 | 7 | 53 | 140 |
| Multi-level lighting or dimming | 349 | 309 | 149 | 128 | 32 | Q | 40 | Q | 13 | 24 |
| Daylight harvesting | 125 | 102 | 58 | 29 | 12 | Q | 24 | Q | 8 | 10 |
| Demand responsive lighting | 176 | 154 | 64 | 75 | 15 | N | 23 | Q | Q | 11 |
| Building automation system (BAS) for lighting[2] | 208 | 168 | 57 | 94 | 17 | Q | 41 | 2 | 10 | 28 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | 3,156 | 1,699 | 1,142 | 283 | 33 | 543 | 29 | 138 | 376 |
| Cooling | 3,517 | 3,000 | 1,585 | 1,117 | 283 | 15 | 516 | 30 | 133 | 352 |
| Lighting | 4,757 | 4,053 | 2,199 | 1,516 | 338 | N | 704 | 33 | 174 | 498 |

## Table B17. Occupancy of nongovernment-owned and government-owned buildings, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 5,557 | 4,781 | 2,466 | 1,745 | 349 | 221 | 776 | 33 | 185 | 558 |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 7,077 | 3,871 | 2,526 | 382 | 298 | 964 | Q | 230 | 713 |
| 5,001 to 10,000 | 8,900 | 7,953 | 4,118 | 2,932 | 635 | 267 | 947 | Q | Q | 765 |
| 10,001 to 25,000 | 14,105 | 11,987 | 6,045 | 4,149 | 1,305 | 488 | 2,117 | Q | 621 | 1,373 |
| 25,001 to 50,000 | 11,917 | 9,482 | 4,067 | 3,656 | 1,353 | Q | 2,435 | Q | 647 | 1,649 |
| 50,001 to 100,000 | 13,918 | 9,104 | 3,712 | 4,051 | 1,106 | Q | 4,814 | Q | 1,327 | 3,351 |
| 100,001 to 200,000 | 12,415 | 8,905 | 4,306 | 3,493 | 1,025 | Q | 3,510 | Q | 1,392 | 1,989 |
| 200,001 to 500,000 | 10,724 | 7,634 | 2,976 | 3,084 | 1,482 | Q | 3,090 | Q | 1,024 | 1,928 |
| Over 500,000 | 7,074 | 5,408 | 1,542 | 2,223 | 1,584 | Q | 1,666 | 806 | Q | 663 |
| **Principal building activity** | | | | | | | | | | |
| Education | 12,239 | 3,084 | 2,471 | 327 | Q | N | 9,154 | Q | 2,408 | 6,689 |
| Food sales | 1,252 | 1,252 | 612 | 448 | Q | N | N | N | N | N |
| Food service | 1,819 | 1,702 | 1,008 | 656 | Q | N | Q | N | Q | Q |
| Health care | 4,155 | 3,523 | 2,007 | 584 | 932 | N | 632 | 143 | 178 | 311 |
| Inpatient | 2,374 | 1,900 | 1,247 | Q | 450 | N | 475 | 104 | 156 | 214 |
| Outpatient | 1,781 | 1,623 | 760 | 381 | 482 | N | 158 | Q | Q | Q |
| Lodging | 5,826 | 5,360 | 3,656 | 1,130 | 574 | N | 466 | N | Q | Q |
| Mercantile | 11,330 | 11,298 | 3,189 | 6,566 | 1,543 | N | Q | Q | Q | Q |
| Retail (other than mall) | 5,439 | 5,427 | 3,189 | 1,628 | 610 | N | Q | N | Q | Q |
| Enclosed and strip malls | 5,890 | 5,871 | N | 4,938 | 933 | N | Q | Q | N | N |
| Office | 15,952 | 12,815 | 3,169 | 7,118 | 2,528 | N | 3,136 | 600 | 1,203 | 1,333 |
| Public assembly | 5,559 | 3,178 | 2,049 | 508 | 620 | N | 2,381 | Q | 514 | 1,736 |
| Public order and safety | 1,440 | Q | Q | Q | Q | N | 1,274 | Q | Q | 1,019 |
| Religious worship | 4,557 | 4,542 | 4,097 | 224 | Q | N | Q | N | N | Q |
| Service | 4,630 | 3,800 | 1,803 | 1,629 | 368 | N | 830 | Q | Q | 375 |
| Warehouse and storage | 13,077 | 12,316 | 5,098 | 5,989 | 1,229 | N | 761 | Q | Q | Q |
| Other | 2,002 | 1,826 | 1,181 | 443 | Q | N | Q | Q | Q | Q |
| Vacant | 3,256 | 2,689 | Q | 455 | Q | 1,925 | 567 | Q | Q | 411 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 3,983 | 3,116 | 1,274 | 979 | 644 | Q | 867 | Q | Q | 393 |
| 1920 to 1945 | 6,025 | 4,071 | 2,146 | 1,386 | 410 | Q | 1,954 | 447 | 429 | 1,079 |
| 1946 to 1959 | 7,381 | 5,253 | 2,918 | 1,458 | 628 | 249 | 2,128 | Q | 679 | 1,413 |
| 1960 to 1969 | 10,362 | 7,070 | 3,356 | 2,554 | 911 | 249 | 3,293 | Q | 991 | 2,097 |
| 1970 to 1979 | 10,846 | 8,539 | 3,618 | 3,578 | 1,048 | 295 | 2,306 | Q | 895 | 1,246 |
| 1980 to 1989 | 15,230 | 13,074 | 4,465 | 5,961 | 2,277 | Q | 2,156 | Q | 580 | 1,509 |
| 1990 to 1999 | 13,803 | 10,757 | 5,366 | 4,076 | 1,066 | Q | 3,046 | 277 | 687 | 2,081 |
| 2000 to 2003 | 7,215 | 5,796 | 3,051 | 2,159 | 539 | Q | 1,419 | Q | 311 | 1,004 |
| 2004 to 2007 | 6,524 | 5,143 | 2,192 | 2,206 | 700 | Q | 1,381 | Q | 397 | 851 |
| 2008 to 2012 | 5,723 | 4,729 | 2,251 | 1,757 | 651 | Q | 994 | N | Q | 757 |
| **Census region** | | | | | | | | | | |
| Northeast | 15,534 | 11,913 | 5,454 | 4,430 | 1,786 | Q | 3,621 | Q | 1,149 | 2,213 |
| Midwest | 18,919 | 14,177 | 7,338 | 4,720 | 1,767 | 352 | 4,742 | 275 | 1,158 | 3,310 |
| South | 34,279 | 26,441 | 12,119 | 10,105 | 3,242 | 975 | 7,839 | 835 | 2,111 | 4,893 |
| West | 18,360 | 15,019 | 5,726 | 6,860 | 2,078 | 355 | 3,341 | 204 | 1,122 | 2,015 |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 31,898 | 24,295 | 12,072 | 8,401 | 3,199 | 624 | 7,603 | 402 | 2,300 | 4,901 |
| Mixed-humid | 27,873 | 20,730 | 9,096 | 8,427 | 2,804 | 404 | 7,143 | 996 | 1,891 | 4,256 |
| Mixed-dry/Hot-dry | 12,037 | 10,197 | 4,141 | 4,430 | 1,313 | 313 | 1,840 | Q | 468 | 1,305 |
| Hot-humid | 12,831 | 10,246 | 4,636 | 3,831 | 1,225 | 554 | 2,585 | Q | 747 | 1,743 |
| Marine | 2,454 | 2,081 | 693 | 1,026 | 332 | Q | 372 | Q | Q | 225 |
| **Number of floors** | | | | | | | | | | |
| One | 39,809 | 32,751 | 13,707 | 14,937 | 2,885 | 1,221 | 7,058 | 323 | 1,530 | 5,205 |
| Two | 20,206 | 15,005 | 7,954 | 4,864 | 1,805 | 382 | 5,201 | Q | 1,682 | 3,336 |
| Three | 8,140 | 5,929 | 3,564 | 1,284 | 975 | Q | 2,210 | Q | 655 | 1,454 |
| Four to nine | 13,535 | 9,454 | 4,439 | 2,830 | 2,015 | Q | 4,081 | 469 | 1,473 | 2,139 |
| Ten or more | 5,404 | 4,410 | 973 | 2,199 | 1,193 | Q | 993 | 496 | 199 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | | | | |
| Any elevators | 32,120 | 21,858 | 9,683 | 7,287 | 4,618 | 270 | 10,262 | 1,177 | 3,193 | 5,892 |
| Number of elevators | | | | | | | | | | |
| One | 11,158 | 6,522 | 3,576 | 1,732 | 1,124 | Q | 4,636 | Q | 1,687 | 2,848 |
| Two to five | 12,817 | 9,288 | 4,250 | 3,235 | 1,668 | Q | 3,529 | 256 | 1,162 | 2,112 |
| Six or more | 8,145 | 6,048 | 1,857 | 2,320 | 1,826 | Q | 2,097 | 820 | 344 | 932 |
| Any escalators | 3,654 | 2,560 | 471 | 1,246 | 819 | Q | 1,094 | Q | Q | 582 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 17,751 | 15,635 | 8,458 | 4,456 | 795 | 1,925 | 2,116 | Q | 675 | 1,392 |
| 5 to 9 | 8,973 | 7,865 | 4,190 | 2,798 | 877 | N | 1,108 | Q | 279 | 764 |
| 10 to 19 | 9,623 | 7,911 | 4,011 | 3,222 | 679 | N | 1,711 | Q | 505 | 1,096 |
| 20 to 49 | 14,514 | 11,024 | 4,570 | 4,568 | 1,886 | N | 3,490 | Q | 1,036 | 2,313 |
| 50 to 99 | 13,476 | 8,465 | 3,455 | 3,914 | 1,096 | N | 5,011 | Q | 1,522 | 3,347 |
| 100 to 249 | 10,941 | 7,679 | 3,345 | 3,152 | 1,182 | N | 3,262 | Q | 720 | 2,351 |
| 250 or more | 11,815 | 8,971 | 2,608 | 4,004 | 2,359 | N | 2,844 | 873 | 802 | 1,168 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 8,220 | 6,625 | 3,606 | 890 | Q | 1,925 | 1,596 | Q | 303 | 1,241 |
| 40 to 48 | 15,828 | 10,950 | 4,932 | 4,295 | 1,723 | N | 4,878 | Q | 1,293 | 3,416 |
| 49 to 60 | 20,529 | 15,766 | 6,461 | 7,095 | 2,210 | N | 4,763 | 312 | 1,001 | 3,450 |
| 61 to 84 | 15,867 | 12,911 | 4,234 | 6,902 | 1,775 | N | 2,955 | Q | 857 | 1,838 |
| 85 to 167 | 9,395 | 7,572 | 3,447 | 3,238 | 888 | N | 1,823 | Q | 828 | 851 |
| Open continuously | 17,253 | 13,725 | 7,958 | 3,695 | 2,073 | N | 3,528 | 635 | 1,257 | 1,636 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 73,702 | 54,927 | 30,060 | 15,337 | 7,818 | 1,713 | 18,775 | 1,525 | 5,359 | 11,891 |
| Business owner or tenant | 11,309 | 10,819 | Q | 9,557 | 816 | Q | 489 | Q | Q | Q |
| Property management | 1,250 | 1,144 | Q | 839 | Q | Q | Q | Q | N | Q |
| Other | 832 | 659 | Q | 382 | Q | Q | Q | Q | Q | Q |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 76,271 | 57,471 | 30,242 | 17,233 | 8,205 | 1,792 | 18,800 | 1,473 | 5,454 | 11,873 |
| Business owner or tenant | 8,256 | 7,906 | Q | 7,239 | 382 | Q | 350 | Q | Q | Q |
| Property management | 880 | 826 | Q | 646 | Q | N | Q | Q | N | Q |
| Other | 1,686 | 1,347 | 158 | 996 | Q | Q | 339 | Q | Q | 254 |
| **Number of establishments** | | | | | | | | | | |
| One | 54,994 | 39,577 | 27,607 | 11,970 | N | N | 15,417 | 940 | 4,352 | 10,126 |
| 2 to 5 | 17,756 | 14,543 | 2,918 | 5,886 | 5,739 | N | 3,213 | 594 | 990 | 1,629 |
| 6 to 10 | 4,425 | 4,303 | Q | 3,125 | 1,088 | N | Q | Q | Q | Q |
| 11 to 20 | 3,704 | 3,533 | Q | 2,731 | 778 | N | Q | Q | Q | Q |
| More than 20 | 3,821 | 3,669 | N | 2,401 | 1,268 | N | Q | Q | N | Q |
| Currently unoccupied | 2,393 | 1,925 | N | N | N | 1,925 | 468 | N | Q | Q |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 43,046 | 19,501 | 16,136 | 6,015 | 1,393 | 9,229 | 686 | 1,468 | 7,075 |
| Primary or secondary school | 4,616 | 802 | 624 | Q | Q | N | 3,814 | Q | 1,037 | 2,754 |
| College or university | 4,068 | 2,173 | 1,813 | Q | Q | N | 1,895 | Q | 1,852 | Q |
| Office complex | 3,456 | 3,142 | 565 | 2,017 | 464 | Q | 314 | Q | Q | Q |
| Retail complex | 5,159 | 4,963 | 1,041 | 3,474 | 355 | Q | Q | N | Q | Q |
| Storage complex | 3,212 | 3,172 | 1,065 | 1,753 | Q | Q | Q | N | Q | Q |
| Religious campus or complex | 1,932 | 1,932 | 1,836 | Q | Q | Q | N | N | N | N |
| Health care complex | 3,362 | 2,572 | 1,633 | 422 | 498 | Q | 790 | 104 | Q | 210 |
| Lodging or resort complex | 1,295 | 1,263 | 853 | Q | Q | Q | Q | N | Q | N |
| Transportation complex | 554 | 272 | Q | Q | Q | N | 282 | N | Q | 226 |
| Government complex | 2,107 | Q | Q | Q | Q | N | 2,002 | 572 | 236 | 1,194 |
| Other | 5,057 | 4,108 | 1,603 | 1,765 | 561 | Q | 948 | Q | 275 | 608 |
| **Predominant exterior wall material** | | | | | | | | | | |
| Brick, stone, or stucco | 40,463 | 29,025 | 14,367 | 9,787 | 3,999 | 872 | 11,438 | 839 | 3,282 | 7,316 |
| Concrete (block or poured) | 20,726 | 16,285 | 6,623 | 7,228 | 2,147 | 287 | 4,441 | Q | 1,080 | 2,969 |
| Concrete panels | 8,693 | 7,594 | 2,452 | 3,585 | 1,189 | Q | 1,099 | Q | 369 | 584 |
| Siding or shingles | 5,750 | 4,750 | 2,387 | 1,854 | 385 | Q | 1,001 | Q | 236 | 733 |
| Metal panels | 8,673 | 7,516 | 4,110 | 2,531 | 646 | Q | 1,157 | Q | 438 | 615 |
| Window glass | 1,340 | 1,112 | Q | 597 | 274 | Q | 228 | Q | Q | Q |
| Other | 856 | 784 | 311 | 324 | Q | N | Q | Q | Q | Q |
| No one major type | 592 | 483 | Q | Q | Q | N | Q | Q | Q | Q |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Predominant roof material** | | | | | | | | | | |
| Metal surfacing | 15,916 | 13,220 | 7,400 | 4,425 | 968 | 427 | 2,696 | Q | 780 | 1,628 |
| Synthetic or rubber | 25,817 | 19,413 | 7,354 | 8,007 | 3,638 | 414 | 6,403 | 664 | 1,899 | 3,841 |
| Built-up | 21,835 | 15,277 | 5,127 | 7,269 | 2,286 | 596 | 6,557 | 410 | 1,942 | 4,205 |
| Slate or tile shingles | 4,306 | 3,706 | 2,531 | 899 | 223 | Q | 600 | Q | Q | 368 |
| Wooden materials (including shingles) | 1,139 | 981 | 475 | 460 | Q | Q | Q | N | Q | Q |
| Asphalt, fiberglass, or other shingles | 15,104 | 12,642 | 7,053 | 3,900 | 1,317 | 373 | 2,461 | Q | 577 | 1,806 |
| Concrete | 1,642 | 1,315 | 325 | 748 | Q | Q | 327 | Q | Q | Q |
| Other | 678 | 485 | Q | Q | Q | N | Q | N | Q | Q |
| No one major type | 657 | 510 | Q | Q | Q | N | Q | Q | Q | Q |
| **Roof characteristics** | | | | | | | | | | |
| Roof tilt | | | | | | | | | | |
| Flat | 49,623 | 37,026 | 13,576 | 16,780 | 5,550 | 1,121 | 12,597 | 1,139 | 3,656 | 7,802 |
| Shallow pitch | 23,853 | 19,570 | 9,795 | 6,960 | 2,280 | 535 | 4,283 | Q | 1,204 | 2,731 |
| Steeper pitch | 13,617 | 10,954 | 7,267 | 2,375 | 1,043 | 269 | 2,663 | Q | 679 | 1,899 |
| Cool roof | 19,630 | 14,300 | 5,973 | 5,629 | 2,438 | Q | 5,330 | 542 | 1,722 | 3,066 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 42,216 | 31,673 | 13,831 | 11,884 | 5,393 | 565 | 10,543 | 835 | 3,290 | 6,418 |
| Addition or annex | 13,022 | 8,486 | 4,755 | 2,204 | 1,449 | Q | 4,536 | 291 | 1,209 | 3,036 |
| Reduction in floorspace | 1,753 | 1,250 | 459 | 437 | 327 | Q | Q | Q | Q | Q |
| Roof replacement | 20,917 | 14,683 | 7,032 | 4,756 | 2,682 | Q | 6,233 | 471 | 1,919 | 3,844 |
| Exterior wall replacement | 4,230 | 3,046 | 1,380 | 969 | 688 | Q | 1,184 | Q | 319 | 753 |
| Interior wall reconfiguration | 21,340 | 16,175 | 6,137 | 6,487 | 3,241 | 311 | 5,165 | 594 | 1,626 | 2,945 |
| Window replacement | 12,265 | 8,541 | 3,596 | 3,039 | 1,865 | Q | 3,723 | 384 | 996 | 2,343 |
| HVAC equipment upgrade | 26,779 | 19,199 | 8,248 | 7,032 | 3,635 | 284 | 7,580 | 712 | 2,337 | 4,532 |
| Lighting upgrade | 25,503 | 18,255 | 8,051 | 6,527 | 3,517 | Q | 7,248 | 715 | 2,249 | 4,283 |
| Electrical upgrade | 16,160 | 11,551 | 5,306 | 3,956 | 2,121 | Q | 4,609 | 436 | 1,563 | 2,611 |
| Plumbing system upgrade | 13,828 | 9,845 | 3,953 | 3,739 | 2,056 | Q | 3,983 | 375 | 1,275 | 2,333 |
| Insulation upgrade | 7,607 | 5,269 | 2,546 | 1,529 | 1,129 | Q | 2,338 | 199 | 714 | 1,426 |
| Fire, safety, or security upgrade | 17,196 | 11,953 | 5,137 | 4,320 | 2,431 | Q | 5,244 | 461 | 1,833 | 2,950 |
| Structural upgrade | 3,913 | 2,754 | 1,624 | 554 | 546 | Q | 1,160 | Q | Q | 662 |
| Other | 848 | 587 | Q | Q | Q | N | Q | Q | Q | Q |
| No renovations | 39,154 | 31,148 | 14,555 | 12,473 | 2,829 | 1,291 | 8,007 | 739 | 2,013 | 5,255 |
| Buildings constructed 2008 or later | 5,723 | 4,729 | 2,251 | 1,757 | 651 | Q | 994 | N | Q | 757 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 84,869 | 65,620 | 30,321 | 25,809 | 8,820 | 670 | 19,248 | 1,573 | 5,522 | 12,153 |
| Natural gas | 58,725 | 44,481 | 20,542 | 17,361 | 6,254 | 325 | 14,244 | 868 | 3,939 | 9,438 |
| Fuel oil | 20,200 | 14,057 | 6,308 | 4,749 | 2,928 | Q | 6,143 | 1,083 | 1,400 | 3,660 |
| District heat | 5,964 | 3,135 | 1,842 | 730 | 557 | Q | 2,829 | 708 | 1,538 | 584 |
| District chilled water | 4,608 | 2,104 | 1,478 | 297 | 329 | N | 2,504 | Q | 1,448 | 612 |
| Propane | 7,706 | 5,896 | 3,569 | 1,567 | 743 | Q | 1,810 | Q | 394 | 1,332 |
| Other | 3,826 | 2,663 | 1,431 | 789 | 427 | Q | 1,163 | Q | Q | 616 |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 49,030 | 39,210 | 16,986 | 16,368 | 5,641 | 214 | 9,821 | 798 | 2,730 | 6,293 |
| Natural gas | 49,511 | 37,495 | 16,788 | 15,108 | 5,282 | 317 | 12,016 | 657 | 3,069 | 8,290 |
| Fuel oil | 4,351 | 2,844 | 1,691 | 734 | 392 | Q | 1,507 | Q | Q | 1,169 |
| District heat | 5,925 | 3,119 | 1,825 | 730 | 557 | Q | 2,807 | 697 | 1,526 | 584 |
| Propane | 3,067 | 2,429 | 1,638 | 497 | 285 | Q | 638 | Q | Q | 397 |
| Other | 1,010 | 834 | 523 | Q | Q | N | Q | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 26,205 | 22,225 | 9,948 | 9,250 | 2,842 | Q | 3,980 | Q | 983 | 2,785 |
| Natural gas | 42,988 | 32,258 | 14,409 | 12,976 | 4,592 | 280 | 10,730 | 593 | 2,717 | 7,420 |
| Fuel oil | 2,542 | 1,658 | 976 | 426 | Q | Q | 884 | Q | Q | 656 |
| District heat | 5,797 | 3,076 | 1,793 | 730 | 547 | Q | 2,721 | 697 | 1,445 | 579 |
| Propane | 1,948 | 1,644 | 1,311 | 262 | Q | Q | 303 | Q | Q | 235 |
| Other | 598 | 481 | 307 | Q | Q | N | Q | N | Q | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 76,034 | 59,329 | 26,984 | 23,688 | 8,379 | 278 | 16,705 | 1,403 | 4,086 | 11,217 |
| Natural gas | 732 | 542 | 147 | Q | Q | N | Q | Q | Q | Q |
| District chilled water | 4,608 | 2,104 | 1,478 | 297 | 329 | N | 2,504 | Q | 1,448 | 612 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 42,755 | 35,729 | 13,903 | 16,509 | 5,232 | Q | 7,025 | 667 | 1,907 | 4,452 |
| Natural gas | 39,523 | 28,106 | 13,220 | 10,578 | 4,063 | Q | 11,417 | 628 | 3,096 | 7,693 |
| Fuel oil | 1,911 | 1,108 | 757 | Q | Q | N | 804 | Q | Q | 607 |
| District heat | 4,551 | 2,566 | 1,593 | 456 | 517 | N | 1,986 | 691 | 1,010 | 285 |
| Propane | 1,575 | 1,179 | 849 | 195 | Q | Q | 396 | Q | Q | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 25,151 | 16,711 | 8,113 | 6,036 | 2,557 | Q | 8,440 | 851 | 1,659 | 5,930 |
| Natural gas | 24,770 | 17,556 | 8,066 | 6,438 | 3,041 | Q | 7,214 | 305 | 1,546 | 5,363 |
| Propane | 2,001 | 1,424 | 904 | 280 | Q | N | 577 | Q | Q | 462 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 80,078 | 61,341 | 28,745 | 23,766 | 8,328 | 502 | 18,736 | 1,557 | 5,411 | 11,768 |
| Buildings with cooling | 79,294 | 60,960 | 28,174 | 23,907 | 8,602 | 278 | 18,334 | 1,573 | 5,252 | 11,508 |
| Buildings with water heating | 79,015 | 60,645 | 27,869 | 23,900 | 8,544 | 332 | 18,370 | 1,565 | 5,270 | 11,535 |
| Buildings with cooking | 38,546 | 26,909 | 13,400 | 9,378 | 4,115 | Q | 11,637 | 933 | 2,538 | 8,166 |
| Buildings with manufacturing | 5,078 | 4,745 | 2,024 | 2,107 | 614 | N | 333 | Q | Q | Q |
| Buildings with electricity generation | 25,642 | 17,555 | 8,079 | 5,917 | 3,502 | Q | 8,086 | 1,122 | 1,829 | 5,136 |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 7,015 | 6,208 | 1,892 | 2,349 | 544 | 1,423 | 807 | Q | Q | 663 |
| 1 to 50 | 10,130 | 9,311 | 3,844 | 3,801 | 1,528 | Q | 819 | Q | Q | 545 |
| 51 to 99 | 14,650 | 11,566 | 4,662 | 4,986 | 1,877 | Q | 3,084 | 460 | 1,135 | 1,490 |
| 100 | 55,298 | 40,465 | 20,239 | 14,980 | 4,923 | 323 | 14,833 | 1,055 | 4,045 | 9,733 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 7,799 | 6,589 | 2,464 | 2,208 | Q | 1,648 | 1,210 | N | 287 | 923 |
| 1 to 50 | 18,891 | 15,853 | 7,022 | 6,681 | 2,046 | Q | 3,037 | Q | 943 | 2,011 |
| 51 to 99 | 22,728 | 16,290 | 6,644 | 6,758 | 2,846 | Q | 6,437 | 926 | 2,170 | 3,341 |
| 100 | 37,676 | 28,816 | 14,508 | 10,468 | 3,710 | Q | 8,859 | 564 | 2,140 | 6,155 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 322 | 304 | Q | Q | Q | N | Q | N | Q | Q |
| 1 to 50 | 12,628 | 11,290 | 5,915 | 3,885 | 1,490 | N | 1,338 | Q | 433 | 816 |
| 51 to 99 | 34,814 | 26,289 | 11,103 | 11,365 | 3,821 | N | 8,525 | 891 | 2,777 | 4,856 |
| 100 | 35,726 | 26,617 | 12,885 | 10,265 | 3,467 | N | 9,109 | 577 | 2,185 | 6,348 |
| Building never open/electricity not used | 3,603 | 3,050 | 643 | 429 | Q | 1,925 | 553 | Q | Q | 406 |
| **Percent lit during off hours** | | | | | | | | | | |
| Zero | 24,746 | 19,295 | 9,859 | 7,328 | 1,677 | 431 | 5,451 | Q | 1,459 | 3,788 |
| 1 to 50 | 50,753 | 38,812 | 16,371 | 16,094 | 6,108 | 239 | 11,941 | 1,089 | 3,385 | 7,467 |
| 51 to 100 | 6,926 | 5,391 | 2,821 | 1,771 | 799 | N | 1,535 | Q | 599 | 665 |
| Building always open with no "off hours" | 2,443 | 2,122 | 1,269 | 616 | Q | N | 322 | Q | Q | Q |
| Electricity not used | 2,225 | 1,929 | 317 | 306 | Q | 1,255 | Q | N | Q | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 11,846 | 8,500 | 3,841 | 3,022 | 1,597 | Q | 3,346 | 212 | 636 | 2,497 |
| Furnaces | 8,654 | 7,472 | 3,629 | 2,880 | 900 | Q | 1,182 | Q | 378 | 753 |
| Individual space heaters | 20,766 | 16,206 | 7,363 | 6,507 | 2,284 | Q | 4,561 | 558 | 1,375 | 2,628 |
| District heat | 5,925 | 3,119 | 1,825 | 730 | 557 | Q | 2,807 | 697 | 1,526 | 584 |
| Boilers | 22,443 | 13,405 | 6,663 | 4,091 | 2,590 | Q | 9,038 | 471 | 2,305 | 6,263 |
| Packaged heating units | 49,188 | 40,336 | 17,635 | 17,239 | 5,102 | 360 | 8,852 | 495 | 2,213 | 6,144 |
| Other | 1,574 | 1,316 | 214 | 1,021 | Q | Q | Q | Q | Q | Q |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 12,846 | 6,442 | 4,937 | 1,431 | Q | 1,919 | Q | 511 | 1,250 |
| Heat pumps | 12,538 | 9,142 | 4,113 | 3,345 | 1,673 | Q | 3,396 | Q | 636 | 2,582 |
| Individual air conditioners | 12,420 | 9,115 | 4,591 | 2,856 | 1,657 | Q | 3,305 | 407 | 761 | 2,137 |
| District chilled water | 4,608 | 2,104 | 1,478 | 297 | 329 | N | 2,504 | Q | 1,448 | 612 |
| Central chillers | 17,041 | 10,175 | 4,184 | 3,678 | 2,278 | Q | 6,866 | 932 | 1,798 | 4,135 |
| Packaged air conditioning units | 45,153 | 36,119 | 15,037 | 15,687 | 5,186 | Q | 9,034 | 682 | 2,246 | 6,106 |
| Swamp coolers | 1,918 | 1,373 | 643 | 576 | Q | N | 545 | Q | Q | Q |
| Other | 328 | Q | Q | Q | Q | N | Q | Q | Q | Q |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 27,558 | 21,157 | 9,562 | 8,292 | 3,125 | Q | 6,400 | 266 | 1,797 | 4,338 |
| Cooling | 30,702 | 23,862 | 10,494 | 9,430 | 3,825 | Q | 6,840 | 409 | 1,972 | 4,459 |
| **Water-heating equipment** | | | | | | | | | | |
| Centralized system | 47,534 | 35,837 | 19,154 | 12,749 | 3,698 | 237 | 11,697 | 837 | 3,188 | 7,672 |
| Distributed system | 12,688 | 11,091 | 4,090 | 4,804 | 2,181 | Q | 1,596 | Q | 746 | 749 |
| Combination of centralized and distributed system | 18,793 | 13,717 | 4,626 | 6,347 | 2,665 | Q | 5,076 | 626 | 1,336 | 3,115 |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | |
| Incandescent | 38,406 | 29,885 | 13,181 | 11,650 | 5,011 | Q | 8,522 | 761 | 2,581 | 5,180 |
| Standard fluorescent | 80,081 | 61,330 | 28,109 | 24,494 | 8,508 | 219 | 18,751 | 1,572 | 5,320 | 11,859 |
| Compact fluorescent | 53,816 | 40,348 | 18,432 | 15,538 | 6,323 | Q | 13,469 | 1,288 | 4,009 | 8,171 |
| High-intensity discharge (HID) | 23,396 | 16,399 | 6,238 | 6,932 | 3,190 | Q | 6,998 | 804 | 1,955 | 4,238 |
| Halogen | 28,059 | 22,488 | 8,652 | 9,504 | 4,293 | Q | 5,571 | 949 | 1,716 | 2,906 |
| LED | 22,071 | 17,210 | 6,135 | 7,422 | 3,647 | Q | 4,862 | 798 | 1,480 | 2,584 |
| Other | 446 | Q | Q | Q | Q | N | Q | Q | Q | Q |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | | |
| Any refrigeration | 73,645 | 55,949 | 26,616 | 21,437 | 7,777 | Q | 17,696 | 1,517 | 4,998 | 11,180 |
| Walk-in units | 28,361 | 18,873 | 7,630 | 7,877 | 3,345 | Q | 9,488 | 864 | 2,260 | 6,365 |
| Cases or cabinets | 28,719 | 21,072 | 8,763 | 8,868 | 3,422 | Q | 7,647 | 836 | 1,876 | 4,936 |
| Large cold storage areas | 4,171 | 3,292 | 1,365 | 1,240 | 687 | N | 879 | Q | Q | 587 |
| Commercial ice makers | 32,734 | 23,456 | 10,557 | 8,954 | 3,907 | Q | 9,278 | 874 | 2,645 | 5,759 |
| Residential-type or compact units | 62,381 | 47,604 | 22,109 | 18,695 | 6,748 | Q | 14,776 | 1,227 | 4,114 | 9,435 |
| Vending machines | 43,936 | 31,303 | 13,162 | 13,020 | 5,071 | Q | 12,633 | 1,288 | 4,022 | 7,323 |
| No refrigeration | 13,448 | 11,601 | 4,021 | 4,677 | 1,096 | 1,806 | 1,848 | Q | 541 | 1,251 |
| **Office equipment (more than one may apply)** | | | | | | | | | | |
| Desktop computers | 77,063 | 58,540 | 26,561 | 23,368 | 8,546 | Q | 18,523 | 1,564 | 5,276 | 11,683 |
| With flat screen monitors | 76,160 | 57,715 | 26,016 | 23,163 | 8,472 | Q | 18,445 | 1,564 | 5,267 | 11,614 |
| With multiple monitors | 30,946 | 23,308 | 8,360 | 10,617 | 4,332 | N | 7,638 | 998 | 2,371 | 4,269 |
| Laptop computers | 63,486 | 47,112 | 20,017 | 19,751 | 7,317 | Q | 16,374 | 1,314 | 4,565 | 10,496 |
| Dedicated servers | 53,369 | 40,203 | 16,319 | 17,242 | 6,604 | Q | 13,166 | 1,230 | 3,438 | 8,498 |
| Laser printers | 54,256 | 40,763 | 17,695 | 16,747 | 6,284 | Q | 13,493 | 1,309 | 3,803 | 8,381 |
| Inkjet printers | 36,235 | 27,684 | 12,573 | 11,001 | 4,107 | Q | 8,551 | 455 | 2,248 | 5,847 |
| FAX machines | 66,682 | 51,133 | 22,209 | 20,978 | 7,881 | Q | 15,550 | 1,446 | 4,053 | 10,051 |
| Photocopiers | 59,277 | 43,565 | 19,647 | 17,099 | 6,755 | Q | 15,711 | 1,326 | 4,626 | 9,760 |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Number of desktop computers** | | | | | | | | | | |
| None | 10,030 | 9,010 | 4,076 | 2,747 | 327 | 1,860 | 1,020 | Q | 263 | 748 |
| 1 to 4 | 15,669 | 13,784 | 8,435 | 4,501 | 820 | Q | 1,885 | Q | 453 | 1,273 |
| 5 to 9 | 9,422 | 8,172 | 4,093 | 3,082 | 996 | N | 1,250 | Q | 413 | 666 |
| 10 to 19 | 9,388 | 8,335 | 3,442 | 3,521 | 1,371 | N | 1,054 | Q | 277 | 691 |
| 20 to 49 | 13,094 | 10,590 | 4,473 | 4,542 | 1,537 | Q | 2,505 | Q | 839 | 1,627 |
| 50 to 99 | 8,284 | 5,121 | 1,629 | 2,591 | 901 | N | 3,164 | Q | 1,079 | 1,929 |
| 100 to 249 | 9,728 | 5,398 | 2,262 | 1,980 | 1,156 | N | 4,330 | Q | 1,163 | 2,892 |
| 250 or more | 11,478 | 7,142 | 2,226 | 3,151 | 1,765 | N | 4,336 | 679 | 1,051 | 2,605 |
| **Number of laptop computers** | | | | | | | | | | |
| None | 23,607 | 20,438 | 10,620 | 6,364 | 1,556 | 1,898 | 3,169 | Q | 974 | 1,935 |
| 1 to 4 | 21,161 | 18,233 | 9,562 | 6,597 | 2,046 | Q | 2,929 | Q | 758 | 2,041 |
| 5 to 9 | 8,345 | 6,792 | 2,542 | 3,251 | 999 | N | 1,554 | Q | Q | 1,006 |
| 10 to 19 | 8,343 | 6,572 | 1,995 | 3,405 | 1,171 | N | 1,772 | Q | 421 | 1,212 |
| 20 to 49 | 9,643 | 6,199 | 2,623 | 2,582 | 993 | N | 3,445 | Q | 1,189 | 2,154 |
| 50 to 99 | 5,234 | 2,730 | 1,062 | 1,036 | 632 | N | 2,504 | Q | 567 | 1,697 |
| 100 to 249 | 5,217 | 2,931 | 1,138 | 1,148 | 645 | N | 2,286 | Q | 671 | 1,402 |
| 250 or more | 5,542 | 3,657 | 1,094 | 1,733 | 830 | N | 1,886 | 405 | 498 | 983 |
| **Number of dedicated servers** | | | | | | | | | | |
| None | 33,724 | 27,347 | 14,318 | 8,873 | 2,269 | 1,888 | 6,377 | Q | 2,101 | 3,933 |
| 1 to 4 | 34,097 | 25,711 | 11,554 | 10,896 | 3,224 | Q | 8,386 | 519 | 2,193 | 5,674 |
| 5 to 9 | 6,241 | 4,648 | 1,257 | 2,526 | 865 | N | 1,593 | Q | 352 | 1,112 |
| 10 to 19 | 5,711 | 4,587 | 1,730 | 1,563 | 1,294 | N | 1,124 | Q | 443 | 603 |
| 20 to 49 | 3,758 | 2,632 | 738 | 1,199 | 696 | N | 1,125 | Q | 241 | 726 |
| 50 or more | 3,562 | 2,625 | 1,040 | 1,058 | 526 | N | 938 | 345 | Q | 383 |
| **Number of photocopiers** | | | | | | | | | | |
| None | 27,816 | 23,984 | 10,991 | 9,016 | 2,118 | 1,860 | 3,832 | Q | 913 | 2,671 |
| One | 17,080 | 14,576 | 8,175 | 5,074 | 1,262 | Q | 2,504 | Q | 666 | 1,663 |
| 2 to 4 | 20,312 | 13,983 | 6,016 | 5,752 | 2,215 | N | 6,329 | Q | 2,104 | 4,102 |
| 5 to 9 | 8,863 | 5,557 | 1,971 | 2,445 | 1,141 | N | 3,305 | Q | 1,120 | 2,085 |
| 10 or more | 13,022 | 9,450 | 3,484 | 3,828 | 2,138 | N | 3,572 | 927 | 735 | 1,910 |
| **Number of TVs or video displays** | | | | | | | | | | |
| None | 24,339 | 20,462 | 8,687 | 7,885 | 1,993 | 1,898 | 3,877 | Q | 959 | 2,763 |
| One | 9,990 | 8,307 | 4,623 | 3,047 | 634 | Q | 1,683 | Q | 555 | 871 |
| 2 to 4 | 16,465 | 13,194 | 6,410 | 5,052 | 1,707 | Q | 3,271 | Q | 921 | 2,203 |
| 5 to 9 | 8,148 | 6,297 | 2,647 | 2,679 | 971 | N | 1,851 | Q | 634 | 1,119 |
| 10 to 19 | 8,168 | 5,169 | 1,914 | 2,354 | 902 | N | 2,999 | Q | 884 | 1,839 |
| 20 to 49 | 8,058 | 5,372 | 1,684 | 2,692 | 995 | N | 2,686 | Q | 509 | 1,972 |
| 50 to 99 | 4,378 | 2,989 | 1,662 | 814 | 513 | N | 1,390 | Q | 429 | 808 |
| 100 or more | 7,547 | 5,760 | 3,011 | 1,592 | 1,157 | N | 1,787 | 283 | 648 | 856 |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 9,884 | 6,017 | 2,527 | 1,985 | 1,505 | N | 3,868 | 614 | 853 | 2,401 |
| Fast food or small restaurant | 9,787 | 8,787 | 2,077 | 4,745 | 1,965 | N | 1,000 | Q | Q | 614 |
| Cafeteria or large restaurant | 15,222 | 7,773 | 3,351 | 2,662 | 1,760 | N | 7,449 | 508 | 1,556 | 5,386 |
| Commercial kitchen/ food preparation area | 16,150 | 9,952 | 5,062 | 2,952 | 1,929 | Q | 6,198 | 508 | 1,368 | 4,321 |
| Small kitchen area | 14,054 | 10,324 | 6,181 | 2,492 | 1,644 | Q | 3,730 | 276 | 841 | 2,613 |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 11,105 | 7,934 | 3,418 | 2,823 | 1,694 | N | 3,171 | 531 | 816 | 1,824 |
| Computer-based training room | 17,723 | 10,525 | 4,645 | 4,167 | 1,713 | N | 7,199 | 806 | 2,063 | 4,330 |
| Student or public computer center | 14,341 | 6,484 | 3,431 | 2,159 | 894 | N | 7,858 | Q | 2,102 | 5,626 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 30,749 | 20,885 | 8,595 | 8,599 | 3,610 | Q | 9,864 | 1,013 | 3,001 | 5,850 |
| Regular HVAC maintenance | 69,244 | 51,901 | 23,421 | 20,514 | 7,661 | 304 | 17,344 | 1,553 | 4,825 | 10,966 |
| Building automation system (BAS)[2] | 37,051 | 24,391 | 10,251 | 9,923 | 4,114 | Q | 12,660 | 1,238 | 3,525 | 7,897 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | |
| Multipaned windows | 60,362 | 46,287 | 21,268 | 17,938 | 6,141 | 941 | 14,075 | 1,192 | 3,894 | 8,988 |
| Tinted window glass | 45,025 | 34,511 | 13,814 | 14,748 | 5,242 | 707 | 10,514 | 885 | 3,246 | 6,383 |
| Reflective window glass | 15,908 | 13,120 | 4,775 | 6,103 | 2,126 | Q | 2,789 | 362 | 689 | 1,737 |
| External overhangs or awnings | 32,188 | 25,663 | 10,225 | 11,637 | 3,488 | 313 | 6,526 | 528 | 1,984 | 4,014 |
| Skylights or atriums | 22,261 | 16,637 | 6,525 | 6,931 | 2,880 | Q | 5,623 | 655 | 1,768 | 3,201 |
| Light scheduling | 30,263 | 23,907 | 8,247 | 11,537 | 4,076 | Q | 6,356 | 844 | 1,687 | 3,825 |
| Occupancy sensors | 35,871 | 26,125 | 9,881 | 11,955 | 4,237 | Q | 9,746 | 1,202 | 2,926 | 5,617 |
| Multi-level lighting or dimming | 14,534 | 11,424 | 4,410 | 5,085 | 1,906 | Q | 3,110 | 470 | 1,096 | 1,543 |
| Daylight harvesting | 6,114 | 4,696 | 1,688 | 1,811 | 1,182 | Q | 1,418 | 414 | 437 | 567 |
| Demand responsive lighting | 4,738 | 4,168 | 981 | 2,504 | 683 | N | 570 | Q | Q | 288 |
| Building automation system (BAS) for lighting[2] | 12,068 | 9,350 | 2,425 | 5,249 | 1,671 | Q | 2,717 | 397 | 715 | 1,606 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 63,167 | 47,806 | 21,373 | 19,438 | 6,580 | 415 | 15,361 | 1,378 | 4,358 | 9,625 |
| Cooling | 62,516 | 47,611 | 20,750 | 19,741 | 6,890 | 230 | 14,905 | 1,376 | 4,220 | 9,309 |
| Lighting | 78,594 | 60,178 | 27,704 | 24,140 | 8,334 | N | 18,417 | 1,517 | 5,274 | 11,626 |

## Table B18. Occupancy of nongovernment-owned and government-owned buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Nongovernment-owned buildings | | | | | Government-owned buildings | | | |
| | All buildings | All buildings | Owner occupied | Leased to tenant(s) | Owner occupied and leased | Unocc-upied | All buildings | Federal | State | Local |
| **All buildings** | 87,093 | 67,550 | 30,637 | 26,115 | 8,873 | 1,925 | 19,543 | 1,573 | 5,539 | 12,431 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unoccupied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,285 | 315 | Q | Q | Q | 145 |
| 5,001 to 10,000 | 1,229 | 907 | 235 | 34 | Q | N | 50 |
| 10,001 to 25,000 | 884 | 600 | 179 | 54 | 16 | Q | 34 |
| 25,001 to 50,000 | 332 | 208 | 65 | 20 | 23 | Q | Q |
| 50,001 to 100,000 | 199 | 125 | 35 | 16 | 10 | 6 | Q |
| 100,001 to 200,000 | 90 | 55 | 21 | 4 | 5 | 3 | Q |
| 200,001 to 500,000 | 38 | 21 | 10 | 1 | 2 | 3 | Q |
| Over 500,000 | 8 | 3 | 2 | 1 | (*) | 2 | Q |
| **Principal building activity** | | | | | | | |
| Education | 389 | 369 | 19 | N | N | N | N |
| Food sales | 177 | 150 | 27 | Q | N | N | N |
| Food service | 380 | 346 | 33 | Q | N | N | N |
| Health care | 157 | 113 | 39 | 1 | Q | Q | N |
| Inpatient | 10 | 8 | 2 | Q | Q | Q | N |
| Outpatient | 147 | 105 | 37 | Q | Q | Q | N |
| Lodging | 158 | 146 | 12 | Q | Q | Q | N |
| Mercantile | 602 | 372 | 133 | 58 | 30 | 8 | N |
| Retail (other than mall) | 438 | 372 | 62 | Q | Q | Q | N |
| Enclosed and strip malls | 164 | N | 71 | 57 | 29 | 7 | N |
| Office | 1,012 | 657 | 275 | 52 | 19 | 8 | N |
| Public assembly | 352 | 300 | 50 | Q | Q | Q | N |
| Public order and safety | 84 | 70 | 14 | N | N | N | N |
| Religious worship | 412 | 385 | 26 | N | N | N | N |
| Service | 619 | 526 | 82 | Q | Q | N | N |
| Warehouse and storage | 796 | 642 | 110 | 22 | Q | Q | N |
| Other | 125 | 93 | 28 | Q | Q | Q | N |
| Vacant | 296 | 35 | Q | Q | Q | N | 248 |
| **Year constructed** | | | | | | | |
| Before 1920 | 362 | 263 | 57 | Q | Q | Q | 33 |
| 1920 to 1945 | 488 | 395 | 56 | Q | Q | Q | 30 |
| 1946 to 1959 | 599 | 433 | 97 | Q | Q | Q | 58 |
| 1960 to 1969 | 639 | 484 | 100 | 16 | 7 | Q | 30 |
| 1970 to 1979 | 684 | 500 | 116 | 20 | 11 | Q | 30 |
| 1980 to 1989 | 915 | 660 | 154 | 38 | 18 | 11 | 33 |
| 1990 to 1999 | 845 | 668 | 129 | 22 | 9 | 3 | Q |
| 2000 to 2003 | 375 | 303 | 51 | 10 | 4 | Q | Q |
| 2004 to 2007 | 347 | 266 | 53 | 14 | Q | Q | Q |
| 2008 to 2012 | 303 | 232 | 49 | Q | Q | Q | Q |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Census region** | | | | | | | |
| Northeast | 805 | 602 | 150 | 19 | 8 | 3 | 24 |
| Midwest | 1,237 | 974 | 192 | 21 | 8 | 2 | 41 |
| South | 2,247 | 1,690 | 328 | 63 | 27 | 8 | 130 |
| West | 1,267 | 939 | 193 | 44 | 25 | 14 | 53 |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 2,031 | 1,540 | 349 | 46 | 19 | Q | 70 |
| Mixed-humid | 1,743 | 1,368 | 228 | 44 | 19 | 7 | 78 |
| Mixed-dry/Hot-dry | 837 | 627 | 126 | Q | 11 | 5 | 43 |
| Hot-humid | 799 | 567 | 138 | 24 | 11 | 3 | 56 |
| Marine | 147 | 102 | 22 | Q | Q | Q | Q |
| **Number of floors** | | | | | | | |
| One | 3,836 | 2,997 | 510 | 87 | 39 | 17 | 186 |
| Two | 1,158 | 833 | 224 | 38 | 16 | 2 | 45 |
| Three | 374 | 259 | 87 | 10 | Q | Q | Q |
| Four to nine | 177 | 112 | 39 | 10 | 6 | 4 | Q |
| Ten or more | 13 | 4 | 3 | 1 | 2 | 3 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | |
| Any elevators | 405 | 248 | 104 | 21 | 15 | 9 | 8 |
| Number of elevators | | | | | | | |
| One | 272 | 175 | 71 | 12 | Q | Q | Q |
| Two to five | 118 | 67 | 28 | 9 | 6 | 5 | Q |
| Six or more | 16 | 7 | 4 | 1 | 2 | 2 | Q |
| Any escalators | 10 | 4 | Q | Q | (*) | 1 | Q |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 2,892 | 2,325 | 278 | Q | Q | Q | 248 |
| 5 to 9 | 1,085 | 846 | 215 | 21 | Q | Q | N |
| 10 to 19 | 731 | 526 | 171 | 29 | Q | N | N |
| 20 to 49 | 513 | 312 | 123 | 50 | 26 | Q | N |
| 50 to 99 | 206 | 127 | 42 | 16 | 16 | 5 | N |
| 100 to 249 | 93 | 51 | 25 | 4 | 7 | 7 | N |
| 250 or more | 37 | 17 | 8 | 4 | 3 | 5 | N |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 1,149 | 829 | 68 | Q | N | N | 248 |
| 40 to 48 | 1,346 | 1,033 | 278 | 24 | Q | Q | N |
| 49 to 60 | 1,244 | 940 | 230 | 47 | 21 | 5 | N |
| 61 to 84 | 764 | 534 | 147 | 40 | 30 | 14 | N |
| 85 to 167 | 479 | 392 | 68 | 11 | Q | Q | N |
| Open continuously | 575 | 476 | 71 | 21 | 4 | Q | N |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unoccupied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 4,781 | 3,537 | 782 | 147 | 67 | 27 | 221 |
| Owner occupied | 2,466 | 2,318 | 142 | Q | Q | N | N |
| Leased to tenant(s) | 1,745 | 1,220 | 351 | 103 | 52 | 20 | N |
| Owner occupied and leased | 349 | N | 289 | 40 | 12 | 7 | N |
| Unoccupied | 221 | N | N | N | N | N | 221 |
| Government owned | 776 | 668 | 80 | Q | Q | Q | 27 |
| Federal | 33 | 27 | 6 | Q | Q | Q | N |
| State | 185 | 164 | 17 | Q | Q | N | Q |
| Local | 558 | 477 | 58 | Q | Q | Q | 22 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | |
| Building owner | 4,715 | 3,654 | 670 | 99 | 42 | 21 | 229 |
| Business owner or tenant | 724 | 466 | 173 | 39 | 24 | 5 | Q |
| Property management | 54 | 37 | Q | Q | Q | Q | Q |
| Other | 64 | 48 | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | |
| Building owner | 4,876 | 3,733 | 716 | 119 | 50 | 24 | 235 |
| Business owner or tenant | 540 | 370 | 119 | 21 | 16 | 2 | Q |
| Property management | 35 | 26 | Q | Q | Q | Q | N |
| Other | 106 | 76 | 23 | Q | Q | Q | Q |
| **Campus or complex activity** | | | | | | | |
| Not part of a campus or complex | 3,683 | 2,753 | 605 | 86 | 36 | 10 | 192 |
| Primary or secondary school | 237 | 228 | Q | N | Q | N | Q |
| College or university | 84 | 76 | 6 | Q | N | Q | Q |
| Office complex | 154 | 75 | 56 | 13 | 5 | 1 | Q |
| Retail complex | 258 | 157 | 55 | 25 | 13 | 4 | Q |
| Storage complex | 314 | 255 | 20 | Q | Q | Q | Q |
| Religious campus or complex | 197 | 184 | Q | N | N | N | Q |
| Health care complex | 52 | 33 | 16 | Q | Q | Q | Q |
| Lodging or resort complex | 65 | 59 | Q | Q | Q | Q | Q |
| Transportation complex | 35 | 22 | Q | Q | Q | Q | N |
| Government complex | 104 | 87 | 15 | Q | N | Q | Q |
| Other | 371 | 276 | 61 | 10 | Q | Q | Q |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 5,234 | 4,079 | 862 | 136 | 66 | 19 | 72 |
| Natural gas | 2,933 | 2,244 | 514 | 91 | 47 | 11 | 26 |
| Fuel oil | 467 | 356 | 89 | 7 | 4 | 5 | Q |
| District heat | 48 | 36 | 8 | Q | Q | 1 | Q |
| District chilled water | 54 | 46 | 5 | Q | Q | Q | Q |
| Propane | 510 | 430 | 75 | Q | Q | Q | Q |
| Other | 172 | 137 | 29 | Q | Q | Q | Q |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 4,722 | 3,646 | 816 | 132 | 60 | 18 | 51 |
| Buildings with cooling | 4,461 | 3,414 | 807 | 134 | 60 | 18 | 28 |
| Buildings with water heating | 4,423 | 3,391 | 794 | 130 | 62 | 19 | 27 |
| Buildings with cooking | 1,589 | 1,262 | 232 | 46 | 31 | 11 | Q |
| Buildings with manufacturing | 259 | 187 | 48 | Q | Q | Q | N |
| Buildings with electricity generation | 410 | 303 | 84 | 10 | 7 | 5 | Q |
| **Percent of floorspace heated** | | | | | | | |
| Not heated | 835 | 559 | 47 | Q | Q | Q | 197 |
| 1 to 50 | 697 | 524 | 135 | 18 | Q | Q | Q |
| 51 to 99 | 727 | 528 | 129 | 43 | 14 | 8 | Q |
| 100 | 3,298 | 2,594 | 551 | 71 | 37 | 8 | 37 |
| **Percent of floorspace cooled** | | | | | | | |
| Not cooled | 1,096 | 791 | 55 | Q | Q | Q | 220 |
| 1 to 50 | 1,173 | 888 | 246 | 24 | Q | Q | Q |
| 51 to 99 | 897 | 655 | 151 | 51 | 25 | 9 | Q |
| 100 | 2,391 | 1,870 | 410 | 59 | 26 | 7 | Q |
| **Percent lit when open** | | | | | | | |
| Zero | 70 | 56 | Q | Q | Q | N | N |
| 1 to 50 | 1,099 | 870 | 206 | 16 | Q | Q | N |
| 51 to 99 | 1,666 | 1,200 | 323 | 88 | 43 | 12 | N |
| 100 | 2,222 | 1,854 | 321 | 30 | 11 | 6 | N |
| Building never open/electricity not used | 501 | 226 | Q | Q | Q | Q | 248 |
| **Percent lit during off hours** | | | | | | | |
| Zero | 2,489 | 2,056 | 349 | 22 | Q | Q | 49 |
| 1 to 50 | 2,441 | 1,782 | 463 | 104 | 53 | 15 | 22 |
| 51 to 100 | 202 | 161 | 32 | 6 | Q | 1 | N |
| Building always open with no "off hours" | 102 | 80 | 19 | Q | Q | Q | N |
| Electricity not used | 323 | 126 | N | Q | Q | Q | 176 |
| **Heating equipment (more than one may apply)** | | | | | | | |
| Heat pumps | 628 | 474 | 101 | 35 | 11 | 3 | Q |
| Furnaces | 755 | 560 | 142 | 29 | 9 | Q | Q |
| Individual space heaters | 1,247 | 954 | 235 | 31 | 15 | 3 | Q |
| District heat | 48 | 36 | 8 | Q | Q | 1 | Q |
| Boilers | 544 | 408 | 98 | 19 | 10 | 5 | Q |
| Packaged heating units | 2,802 | 2,101 | 514 | 100 | 49 | 13 | 25 |
| Other | 62 | 43 | Q | Q | Q | Q | Q |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Cooling equipment (more than one may apply)** | | | | | | | |
| Residential-type central air conditioners | 1,546 | 1,189 | 272 | 55 | 17 | 5 | Q |
| Heat pumps | 692 | 519 | 115 | 36 | 14 | 3 | Q |
| Individual air conditioners | 709 | 544 | 140 | 12 | 6 | 2 | Q |
| District chilled water | 54 | 46 | 5 | Q | Q | Q | Q |
| Central chillers | 163 | 112 | 33 | 7 | 5 | 4 | Q |
| Packaged air conditioning units | 1,909 | 1,376 | 388 | 81 | 44 | 11 | Q |
| Swamp coolers | 109 | 91 | 14 | Q | Q | Q | N |
| Other | Q | Q | Q | N | Q | Q | N |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | |
| Heating | 1,874 | 1,441 | 315 | 70 | 23 | 9 | Q |
| Cooling | 1,971 | 1,500 | 347 | 75 | 28 | 9 | Q |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 3,348 | 2,694 | 540 | 65 | 24 | 5 | 21 |
| Distributed system | 690 | 479 | 167 | 27 | 11 | 5 | Q |
| Combination of centralized and distributed system | 385 | 219 | 87 | 38 | 27 | 9 | Q |
| **Lighting equipment types (more than one may apply)** | | | | | | | |
| Incandescent | 1,826 | 1,326 | 365 | 77 | 41 | 11 | Q |
| Standard fluorescent | 4,649 | 3,603 | 816 | 131 | 60 | 18 | 22 |
| Compact fluorescent | 2,302 | 1,716 | 414 | 102 | 49 | 17 | Q |
| High-intensity discharge (HID) | 525 | 357 | 102 | 35 | 22 | 7 | Q |
| Halogen | 905 | 626 | 185 | 51 | 30 | 13 | Q |
| LED | 473 | 293 | 96 | 44 | 29 | 11 | Q |
| Other | 10 | Q | Q | Q | Q | Q | N |
| **Refrigeration equipment (more than one may apply)** | | | | | | | |
| Any refrigeration | 3,984 | 3,083 | 712 | 103 | 54 | 15 | Q |
| Walk-in units | 811 | 600 | 129 | 41 | 29 | 10 | Q |
| Cases or cabinets | 915 | 687 | 140 | 44 | 32 | 9 | Q |
| Large cold storage areas | 78 | 55 | 12 | Q | 4 | 2 | N |
| Commercial ice makers | 846 | 635 | 131 | 39 | 26 | 10 | Q |
| Residential-type or compact units | 3,388 | 2,585 | 628 | 97 | 52 | 14 | Q |
| Vending machines | 960 | 679 | 186 | 46 | 33 | 13 | Q |
| No refrigeration | 1,573 | 1,122 | 150 | 44 | Q | Q | 232 |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Office equipment (more than one may apply)** | | | | | | | |
| Desktop computers | 3,977 | 2,981 | 780 | 133 | 62 | 19 | Q |
| With flat screen monitors | 3,847 | 2,870 | 761 | 133 | 62 | 19 | Q |
| With multiple monitors | 911 | 557 | 233 | 71 | 38 | 11 | N |
| Laptop computers | 2,730 | 1,913 | 611 | 125 | 61 | 18 | Q |
| Dedicated servers | 1,748 | 1,189 | 401 | 96 | 45 | 15 | Q |
| Laser printers | 2,339 | 1,657 | 523 | 97 | 48 | 15 | Q |
| Inkjet printers | 2,187 | 1,684 | 395 | 73 | 27 | 8 | Q |
| FAX machines | 3,185 | 2,315 | 671 | 123 | 55 | 18 | Q |
| Photocopiers | 2,163 | 1,550 | 458 | 88 | 49 | 15 | Q |
| **Number of desktop computers** | | | | | | | |
| None | 1,581 | 1,224 | 83 | Q | Q | Q | 245 |
| 1 to 4 | 2,039 | 1,703 | 314 | Q | Q | Q | Q |
| 5 to 9 | 821 | 590 | 193 | 34 | Q | Q | N |
| 10 to 19 | 482 | 287 | 137 | 41 | 18 | Q | N |
| 20 to 49 | 355 | 214 | 85 | 29 | 19 | 7 | Q |
| 50 to 99 | 143 | 95 | 28 | 9 | 9 | 2 | N |
| 100 to 249 | 92 | 65 | 16 | 4 | 3 | 4 | N |
| 250 or more | 44 | 28 | 6 | 4 | 2 | 4 | N |
| **Number of laptop computers** | | | | | | | |
| None | 2,827 | 2,292 | 251 | 22 | Q | Q | 246 |
| 1 to 4 | 1,944 | 1,446 | 445 | 41 | Q | Q | Q |
| 5 to 9 | 350 | 193 | 88 | 52 | 16 | Q | N |
| 10 to 19 | 181 | 94 | 38 | 18 | 25 | 6 | N |
| 20 to 49 | 144 | 96 | 27 | 9 | 7 | 5 | N |
| 50 to 99 | 58 | 45 | 6 | Q | 2 | 3 | N |
| 100 to 249 | 35 | 26 | 4 | Q | 1 | 2 | N |
| 250 or more | 20 | 14 | 3 | 1 | 1 | 1 | N |
| **Number of dedicated servers** | | | | | | | |
| None | 3,809 | 3,016 | 461 | 50 | 23 | Q | 248 |
| 1 to 4 | 1,562 | 1,102 | 346 | 79 | 30 | 4 | Q |
| 5 to 9 | 97 | 41 | 30 | 13 | 9 | 4 | N |
| 10 to 19 | 50 | 23 | 15 | 3 | 4 | 5 | N |
| 20 to 49 | 25 | 16 | 6 | Q | 1 | 2 | N |
| 50 or more | 13 | 7 | 4 | Q | Q | 1 | N |
| **Number of photocopiers** | | | | | | | |
| None | 3,394 | 2,655 | 405 | 58 | 19 | Q | 245 |
| One | 1,325 | 1,040 | 241 | 31 | 10 | Q | Q |
| 2 to 4 | 648 | 417 | 177 | 30 | 21 | 3 | N |
| 5 to 9 | 116 | 58 | 24 | 18 | 10 | 5 | N |
| 10 or more | 75 | 36 | 16 | 9 | 8 | 6 | N |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Number of TVs or video displays** | | | | | | | |
| None | 2,718 | 2,047 | 354 | 46 | Q | Q | 246 |
| One | 1,145 | 955 | 171 | Q | Q | Q | Q |
| 2 to 4 | 1,035 | 745 | 229 | 44 | 13 | Q | Q |
| 5 to 9 | 314 | 217 | 62 | 27 | 7 | Q | N |
| 10 to 19 | 154 | 98 | 25 | 10 | 18 | 3 | N |
| 20 to 49 | 106 | 72 | 12 | 6 | 10 | 7 | N |
| 50 to 99 | 48 | 40 | 5 | Q | Q | 2 | N |
| 100 or more | 37 | 31 | 4 | (*) | (*) | 1 | N |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 153 | 101 | 31 | 10 | 7 | 4 | N |
| Fast food or small restaurant | 173 | 52 | 55 | 33 | 26 | 8 | N |
| Cafeteria or large restaurant | 130 | 95 | 18 | 9 | 5 | 2 | N |
| Commercial kitchen/ food preparation area | 282 | 214 | 42 | 10 | 9 | 5 | Q |
| Small kitchen area | 736 | 605 | 98 | 13 | 11 | 3 | Q |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 97 | 60 | 29 | 4 | 2 | 2 | N |
| Computer-based training room | 244 | 164 | 56 | 11 | 9 | 4 | N |
| Student or public computer center | 238 | 183 | 32 | 12 | 9 | 3 | N |
| **HVAC conservation features (more than one may apply)** | | | | | | | |
| Economizer cycle | 601 | 427 | 119 | 29 | 16 | 7 | Q |
| Regular HVAC maintenance | 3,178 | 2,413 | 554 | 107 | 57 | 18 | 29 |
| Building automation system (BAS)[2] | 781 | 579 | 128 | 33 | 26 | 11 | Q |
| **Window and interior lighting features (more than one may apply)** | | | | | | | |
| Multipaned windows | 3,012 | 2,240 | 520 | 105 | 46 | 15 | 86 |
| Tinted window glass | 1,875 | 1,318 | 352 | 92 | 50 | 15 | 49 |
| Reflective window glass | 549 | 380 | 97 | 41 | 20 | 7 | Q |
| External overhangs or awnings | 1,867 | 1,349 | 345 | 87 | 37 | 10 | 40 |
| Skylights or atriums | 591 | 394 | 121 | 33 | 25 | 6 | Q |
| Light scheduling | 918 | 617 | 177 | 70 | 38 | 13 | Q |
| Occupancy sensors | 813 | 551 | 160 | 55 | 33 | 14 | Q |
| Multi-level lighting or dimming | 349 | 220 | 63 | 34 | 23 | 9 | Q |
| Daylight harvesting | 125 | 85 | 19 | 7 | 9 | 2 | Q |
| Demand responsive lighting | 176 | 108 | 33 | 21 | 11 | 3 | N |
| Building automation system (BAS) for lighting[2] | 208 | 121 | 40 | 21 | 18 | 8 | Q |

## Table B19. Number of establishments in building, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 5,557 | 4,205 | 862 | 147 | 68 | 27 | 248 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | |
| Heating | 3,699 | 2,802 | 671 | 121 | 54 | 15 | 36 |
| Cooling | 3,517 | 2,645 | 661 | 123 | 55 | 16 | 16 |
| Lighting | 4,757 | 3,729 | 820 | 130 | 59 | 18 | N |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,548 | 1,068 | Q | Q | Q | 336 |
| 5,001 to 10,000 | 8,900 | 6,560 | 1,720 | 270 | Q | N | 319 |
| 10,001 to 25,000 | 14,105 | 9,593 | 2,812 | 871 | 289 | Q | 538 |
| 25,001 to 50,000 | 11,917 | 7,470 | 2,299 | 733 | 798 | Q | Q |
| 50,001 to 100,000 | 13,918 | 8,621 | 2,545 | 1,062 | 760 | 456 | Q |
| 100,001 to 200,000 | 12,415 | 7,599 | 2,929 | 528 | 715 | 484 | Q |
| 200,001 to 500,000 | 10,724 | 5,876 | 2,726 | 416 | 742 | 872 | Q |
| Over 500,000 | 7,074 | 2,727 | 1,657 | 493 | 358 | 1,780 | Q |
| **Principal building activity** | | | | | | | |
| Education | 12,239 | 11,241 | 998 | N | N | N | N |
| Food sales | 1,252 | 942 | 292 | Q | N | N | N |
| Food service | 1,819 | 1,570 | 249 | Q | N | N | N |
| Health care | 4,155 | 2,520 | 1,154 | 198 | Q | Q | N |
| Inpatient | 2,374 | 1,603 | 546 | Q | Q | Q | N |
| Outpatient | 1,781 | 917 | 609 | Q | Q | Q | N |
| Lodging | 5,826 | 4,778 | 947 | Q | Q | Q | N |
| Mercantile | 11,330 | 3,827 | 2,483 | 1,613 | 1,775 | 1,632 | N |
| Retail (other than mall) | 5,439 | 3,827 | 1,432 | Q | Q | Q | N |
| Enclosed and strip malls | 5,890 | N | 1,050 | 1,601 | 1,746 | 1,493 | N |
| Office | 15,952 | 7,318 | 3,988 | 1,693 | 1,234 | 1,719 | N |
| Public assembly | 5,559 | 3,850 | 1,307 | Q | Q | Q | N |
| Public order and safety | 1,440 | 927 | 512 | N | N | N | N |
| Religious worship | 4,557 | 3,864 | 694 | N | N | N | N |
| Service | 4,630 | 3,396 | 957 | Q | Q | N | N |
| Warehouse and storage | 13,077 | 9,157 | 3,128 | 325 | Q | Q | N |
| Other | 2,002 | 1,130 | 698 | Q | Q | Q | N |
| Vacant | 3,256 | 476 | Q | Q | Q | N | 2,393 |
| **Year constructed** | | | | | | | |
| Before 1920 | 3,983 | 2,259 | 1,009 | Q | Q | Q | 279 |
| 1920 to 1945 | 6,025 | 3,859 | 1,411 | Q | Q | Q | 220 |
| 1946 to 1959 | 7,381 | 4,937 | 1,595 | Q | Q | Q | 268 |
| 1960 to 1969 | 10,362 | 6,803 | 2,092 | 484 | 355 | 359 | 269 |
| 1970 to 1979 | 10,846 | 6,639 | 2,065 | 604 | 439 | 704 | 394 |
| 1980 to 1989 | 15,230 | 8,315 | 3,039 | 1,092 | 1,022 | 1,363 | 399 |
| 1990 to 1999 | 13,803 | 8,771 | 2,750 | 636 | 710 | 545 | Q |
| 2000 to 2003 | 7,215 | 5,185 | 1,164 | 343 | 330 | Q | Q |
| 2004 to 2007 | 6,524 | 4,419 | 1,229 | 374 | Q | Q | Q |
| 2008 to 2012 | 5,723 | 3,805 | 1,401 | Q | Q | Q | Q |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Census region** | | | | | | | |
| Northeast | 15,534 | 9,527 | 3,305 | 775 | 833 | 832 | 262 |
| Midwest | 18,919 | 12,503 | 4,207 | 798 | 493 | 532 | 386 |
| South | 34,279 | 21,742 | 6,503 | 1,750 | 1,560 | 1,419 | 1,306 |
| West | 18,360 | 11,222 | 3,742 | 1,103 | 818 | 1,037 | 439 |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 31,898 | 20,812 | 6,741 | 1,402 | 1,234 | 1,026 | 682 |
| Mixed-humid | 27,873 | 17,729 | 5,626 | 1,453 | 1,289 | 1,280 | 498 |
| Mixed-dry/Hot-dry | 12,037 | 7,610 | 2,299 | 570 | 470 | 690 | 397 |
| Hot-humid | 12,831 | 7,606 | 2,427 | 731 | 629 | 666 | 773 |
| Marine | 2,454 | 1,237 | 663 | Q | Q | Q | Q |
| **Number of floors** | | | | | | | |
| One | 39,809 | 25,686 | 7,605 | 2,016 | 1,851 | 1,183 | 1,470 |
| Two | 20,206 | 14,210 | 3,755 | 891 | 467 | 439 | 444 |
| Three | 8,140 | 5,591 | 1,810 | 254 | Q | Q | Q |
| Four to nine | 13,535 | 7,895 | 3,323 | 746 | 532 | 720 | Q |
| Ten or more | 5,404 | 1,613 | 1,263 | 518 | 638 | 1,327 | Q |
| **Elevators and escalators (more than one may apply)** | | | | | | | |
| Any elevators | 32,120 | 18,695 | 7,181 | 1,757 | 1,569 | 2,487 | 430 |
| Number of elevators | | | | | | | |
| One | 11,158 | 8,130 | 2,135 | 393 | Q | Q | Q |
| Two to five | 12,817 | 7,589 | 2,812 | 770 | 572 | 837 | Q |
| Six or more | 8,145 | 2,977 | 2,234 | 594 | 749 | 1,546 | Q |
| Any escalators | 3,654 | 872 | 1,153 | Q | 261 | 1,043 | Q |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 17,751 | 13,276 | 1,785 | Q | Q | Q | 2,393 |
| 5 to 9 | 8,973 | 6,712 | 2,002 | 195 | Q | Q | N |
| 10 to 19 | 9,623 | 6,905 | 2,291 | 343 | Q | N | N |
| 20 to 49 | 14,514 | 8,722 | 3,443 | 1,362 | 855 | Q | N |
| 50 to 99 | 13,476 | 8,068 | 3,184 | 924 | 955 | 346 | N |
| 100 to 249 | 10,941 | 6,459 | 2,404 | 378 | 772 | 928 | N |
| 250 or more | 11,815 | 4,853 | 2,647 | 1,010 | 939 | 2,366 | N |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 8,220 | 5,191 | 555 | Q | N | N | 2,393 |
| 40 to 48 | 15,828 | 10,775 | 4,083 | 494 | Q | Q | N |
| 49 to 60 | 20,529 | 13,123 | 4,063 | 1,483 | 922 | 938 | N |
| 61 to 84 | 15,867 | 8,096 | 2,960 | 1,145 | 1,748 | 1,918 | N |
| 85 to 167 | 9,395 | 6,429 | 2,214 | 385 | Q | Q | N |
| Open continuously | 17,253 | 11,380 | 3,881 | 837 | 533 | 623 | N |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unoccupied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 67,550 | 39,577 | 14,543 | 4,303 | 3,533 | 3,669 | 1,925 |
| Owner occupied | 30,637 | 27,607 | 2,918 | Q | Q | N | N |
| Leased to tenant(s) | 26,115 | 11,970 | 5,886 | 3,125 | 2,731 | 2,401 | N |
| Owner occupied and leased | 8,873 | N | 5,739 | 1,088 | 778 | 1,268 | N |
| Unoccupied | 1,925 | N | N | N | N | N | 1,925 |
| Government owned | 19,543 | 15,417 | 3,213 | Q | Q | Q | 468 |
| Federal | 1,573 | 940 | 594 | Q | Q | Q | N |
| State | 5,539 | 4,352 | 990 | Q | Q | N | Q |
| Local | 12,431 | 10,126 | 1,629 | Q | Q | Q | Q |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | |
| Building owner | 73,702 | 49,178 | 14,057 | 2,905 | 2,326 | 3,056 | 2,181 |
| Business owner or tenant | 11,309 | 4,745 | 3,255 | 1,224 | 1,211 | 675 | Q |
| Property management | 1,250 | 488 | Q | Q | Q | Q | Q |
| Other | 832 | 583 | Q | Q | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | |
| Building owner | 76,271 | 49,848 | 15,004 | 3,361 | 2,561 | 3,237 | 2,259 |
| Business owner or tenant | 8,256 | 3,859 | 2,136 | 833 | 917 | 382 | Q |
| Property management | 880 | 423 | Q | Q | Q | Q | N |
| Other | 1,686 | 864 | 435 | Q | Q | Q | Q |
| **Campus or complex activity** | | | | | | | |
| Not part of a campus or complex | 52,275 | 32,837 | 11,199 | 2,571 | 1,856 | 2,117 | 1,694 |
| Primary or secondary school | 4,616 | 4,276 | Q | N | Q | N | Q |
| College or university | 4,068 | 3,408 | 554 | Q | N | Q | Q |
| Office complex | 3,456 | 1,381 | 779 | 470 | 319 | 412 | Q |
| Retail complex | 5,159 | 1,605 | 914 | 752 | 1,043 | 754 | Q |
| Storage complex | 3,212 | 2,379 | 453 | Q | Q | Q | Q |
| Religious campus or complex | 1,932 | 1,791 | Q | N | N | N | Q |
| Health care complex | 3,362 | 2,226 | 818 | Q | Q | Q | Q |
| Lodging or resort complex | 1,295 | 962 | Q | Q | Q | Q | Q |
| Transportation complex | 554 | 153 | Q | Q | Q | Q | N |
| Government complex | 2,107 | 1,183 | 882 | Q | N | Q | Q |
| Other | 5,057 | 2,793 | 1,317 | 324 | Q | Q | Q |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 84,869 | 54,485 | 17,756 | 4,313 | 3,675 | 3,795 | 845 |
| Natural gas | 58,725 | 37,156 | 12,432 | 3,092 | 2,762 | 2,862 | 420 |
| Fuel oil | 20,200 | 11,534 | 4,944 | 873 | 884 | 1,893 | Q |
| District heat | 5,964 | 3,410 | 1,457 | 357 | Q | 447 | Q |
| District chilled water | 4,608 | 3,241 | 766 | Q | Q | Q | Q |
| Propane | 7,706 | 5,634 | 1,691 | Q | Q | Q | Q |
| Other | 3,826 | 2,431 | 1,009 | Q | Q | Q | Q |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 80,078 | 50,986 | 17,078 | 4,239 | 3,580 | 3,574 | 621 |
| Buildings with cooling | 79,294 | 50,081 | 17,149 | 4,305 | 3,624 | 3,783 | 352 |
| Buildings with water heating | 79,015 | 50,143 | 16,818 | 4,204 | 3,664 | 3,790 | 395 |
| Buildings with cooking | 38,546 | 23,968 | 7,333 | 2,062 | 2,308 | 2,858 | Q |
| Buildings with manufacturing | 5,078 | 2,688 | 1,462 | Q | Q | Q | N |
| Buildings with electricity generation | 25,642 | 15,516 | 5,763 | 1,045 | 1,127 | 2,133 | Q |
| **Percent of floorspace heated** | | | | | | | |
| Not heated | 7,015 | 4,008 | 678 | Q | Q | Q | 1,772 |
| 1 to 50 | 10,130 | 6,277 | 2,594 | 443 | Q | Q | Q |
| 51 to 99 | 14,650 | 7,037 | 3,732 | 1,301 | 1,151 | 1,378 | Q |
| 100 | 55,298 | 37,672 | 10,752 | 2,495 | 2,098 | 1,848 | 432 |
| **Percent of floorspace cooled** | | | | | | | |
| Not cooled | 7,799 | 4,913 | 607 | Q | Q | Q | 2,041 |
| 1 to 50 | 18,891 | 12,570 | 4,755 | 668 | Q | Q | Q |
| 51 to 99 | 22,728 | 11,914 | 5,325 | 1,771 | 1,690 | 1,914 | Q |
| 100 | 37,676 | 25,597 | 7,069 | 1,866 | 1,497 | 1,514 | Q |
| **Percent lit when open** | | | | | | | |
| Zero | 322 | 257 | Q | Q | Q | N | N |
| 1 to 50 | 12,628 | 8,810 | 3,058 | 359 | Q | Q | N |
| 51 to 99 | 34,814 | 20,320 | 7,277 | 2,660 | 2,442 | 2,115 | N |
| 100 | 35,726 | 24,614 | 7,323 | 1,286 | 949 | 1,554 | N |
| Building never open/electricity not used | 3,603 | 993 | Q | Q | Q | Q | 2,393 |
| **Percent lit during off hours** | | | | | | | |
| Zero | 24,746 | 18,734 | 4,395 | 536 | 261 | Q | 539 |
| 1 to 50 | 50,753 | 29,946 | 10,997 | 3,313 | 3,052 | 3,140 | 306 |
| 51 to 100 | 6,926 | 4,464 | 1,523 | 402 | 273 | 264 | N |
| Building always open with no "off hours" | 2,443 | 1,340 | 841 | Q | Q | Q | N |
| Electricity not used | 2,225 | 509 | N | Q | Q | Q | 1,548 |
| **Heating equipment (more than one may apply)** | | | | | | | |
| Heat pumps | 11,846 | 7,328 | 2,234 | 921 | 638 | 686 | Q |
| Furnaces | 8,654 | 5,625 | 1,626 | 607 | 439 | Q | Q |
| Individual space heaters | 20,766 | 12,661 | 4,871 | 1,163 | 943 | 1,070 | Q |
| District heat | 5,925 | 3,391 | 1,438 | 357 | Q | 447 | Q |
| Boilers | 22,443 | 14,812 | 4,802 | 913 | 766 | 1,063 | Q |
| Packaged heating units | 49,188 | 29,823 | 10,872 | 3,014 | 2,827 | 2,283 | 370 |
| Other | 1,574 | 556 | Q | Q | Q | Q | Q |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Cooling equipment (more than one may apply)** | | | | | | | |
| Residential-type central air conditioners | 14,765 | 9,898 | 2,851 | 984 | 545 | 450 | Q |
| Heat pumps | 12,538 | 7,637 | 2,397 | 959 | 865 | 664 | Q |
| Individual air conditioners | 12,420 | 8,082 | 3,004 | 439 | 445 | 439 | Q |
| District chilled water | 4,608 | 3,241 | 766 | Q | Q | Q | Q |
| Central chillers | 17,041 | 9,608 | 4,131 | 750 | 842 | 1,667 | Q |
| Packaged air conditioning units | 45,153 | 26,166 | 10,887 | 2,962 | 2,654 | 2,275 | Q |
| Swamp coolers | 1,918 | 1,288 | 368 | Q | Q | Q | N |
| Other | 328 | Q | Q | N | Q | Q | N |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | |
| Heating | 27,558 | 17,387 | 5,374 | 1,913 | 1,020 | 1,671 | Q |
| Cooling | 30,702 | 18,646 | 6,491 | 2,173 | 1,264 | 2,014 | Q |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 47,534 | 34,771 | 8,763 | 1,749 | 1,141 | 873 | 237 |
| Distributed system | 12,688 | 6,780 | 3,512 | 888 | 553 | 938 | Q |
| Combination of centralized and distributed system | 18,793 | 8,592 | 4,544 | 1,566 | 1,970 | 1,979 | Q |
| **Lighting equipment types (more than one may apply)** | | | | | | | |
| Incandescent | 38,406 | 21,437 | 8,853 | 2,707 | 2,692 | 2,624 | Q |
| Standard fluorescent | 80,081 | 50,904 | 17,286 | 4,231 | 3,610 | 3,765 | 285 |
| Compact fluorescent | 53,816 | 32,706 | 10,787 | 3,518 | 3,212 | 3,490 | Q |
| High-intensity discharge (HID) | 23,396 | 13,166 | 4,993 | 1,421 | 1,653 | 2,124 | Q |
| Halogen | 28,059 | 14,075 | 6,639 | 2,191 | 2,428 | 2,687 | Q |
| LED | 22,071 | 10,132 | 5,211 | 1,846 | 2,309 | 2,570 | Q |
| Other | 446 | Q | Q | Q | Q | Q | N |
| **Refrigeration equipment (more than one may apply)** | | | | | | | |
| Any refrigeration | 73,645 | 47,153 | 15,599 | 3,796 | 3,404 | 3,528 | Q |
| Walk-in units | 28,361 | 16,473 | 5,436 | 1,746 | 2,126 | 2,559 | Q |
| Cases or cabinets | 28,719 | 16,429 | 5,736 | 2,002 | 2,298 | 2,234 | Q |
| Large cold storage areas | 4,171 | 1,980 | 1,145 | Q | 386 | 375 | N |
| Commercial ice makers | 32,734 | 19,402 | 6,461 | 2,013 | 2,220 | 2,600 | Q |
| Residential-type or compact units | 62,381 | 39,164 | 13,259 | 3,475 | 3,146 | 3,239 | Q |
| Vending machines | 43,936 | 26,276 | 9,478 | 2,267 | 2,707 | 3,113 | Q |
| No refrigeration | 13,448 | 7,841 | 2,158 | 630 | Q | Q | 2,228 |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Office equipment (more than one may apply)** | | | | | | | |
| Desktop computers | 77,063 | 48,169 | 17,073 | 4,303 | 3,659 | 3,795 | Q |
| With flat screen monitors | 76,160 | 47,498 | 16,840 | 4,303 | 3,659 | 3,795 | Q |
| With multiple monitors | 30,946 | 15,872 | 7,128 | 2,625 | 2,543 | 2,778 | N |
| Laptop computers | 63,486 | 37,798 | 14,258 | 4,057 | 3,628 | 3,718 | Q |
| Dedicated servers | 53,369 | 30,356 | 12,662 | 3,751 | 3,157 | 3,406 | Q |
| Laser printers | 54,256 | 32,909 | 11,961 | 3,347 | 2,985 | 3,016 | Q |
| Inkjet printers | 36,235 | 23,352 | 7,706 | 1,968 | 1,505 | 1,701 | Q |
| FAX machines | 66,682 | 40,115 | 15,315 | 4,059 | 3,481 | 3,647 | Q |
| Photocopiers | 59,277 | 36,301 | 13,053 | 3,437 | 3,075 | 3,347 | Q |
| **Number of desktop computers** | | | | | | | |
| None | 10,030 | 6,825 | 684 | Q | Q | Q | 2,328 |
| 1 to 4 | 15,669 | 12,430 | 2,903 | Q | Q | Q | Q |
| 5 to 9 | 9,422 | 6,392 | 2,381 | 526 | Q | Q | N |
| 10 to 19 | 9,388 | 5,209 | 2,567 | 948 | 630 | Q | N |
| 20 to 49 | 13,094 | 7,062 | 3,364 | 939 | 1,094 | 598 | Q |
| 50 to 99 | 8,284 | 4,855 | 1,887 | 386 | 666 | 491 | N |
| 100 to 249 | 9,728 | 6,262 | 2,002 | 431 | 271 | 762 | N |
| 250 or more | 11,478 | 5,959 | 1,970 | 901 | 799 | 1,849 | N |
| **Number of laptop computers** | | | | | | | |
| None | 23,607 | 17,196 | 3,499 | 368 | Q | Q | 2,365 |
| 1 to 4 | 21,161 | 14,234 | 5,828 | 774 | Q | Q | Q |
| 5 to 9 | 8,345 | 4,389 | 1,902 | 1,281 | 560 | Q | N |
| 10 to 19 | 8,343 | 3,902 | 1,845 | 537 | 1,487 | 571 | N |
| 20 to 49 | 9,643 | 5,813 | 1,870 | 622 | 457 | 881 | N |
| 50 to 99 | 5,234 | 3,351 | 1,007 | Q | 203 | 475 | N |
| 100 to 249 | 5,217 | 3,305 | 921 | Q | 245 | 539 | N |
| 250 or more | 5,542 | 2,804 | 884 | 438 | 481 | 935 | N |
| **Number of dedicated servers** | | | | | | | |
| None | 33,724 | 24,638 | 5,094 | 674 | 547 | 415 | 2,356 |
| 1 to 4 | 34,097 | 21,961 | 7,983 | 2,196 | 1,314 | 605 | Q |
| 5 to 9 | 6,241 | 2,726 | 1,408 | 683 | 703 | 721 | N |
| 10 to 19 | 5,711 | 2,265 | 1,614 | 420 | 626 | 787 | N |
| 20 to 49 | 3,758 | 1,671 | 930 | Q | 308 | 660 | N |
| 50 or more | 3,562 | 1,733 | 728 | Q | Q | 634 | N |
| **Number of photocopiers** | | | | | | | |
| None | 27,816 | 18,694 | 4,703 | 989 | 629 | 474 | 2,328 |
| One | 17,080 | 12,167 | 3,425 | 766 | 346 | Q | Q |
| 2 to 4 | 20,312 | 13,010 | 5,050 | 776 | 1,104 | 373 | N |
| 5 to 9 | 8,863 | 5,067 | 1,635 | 807 | 655 | 699 | N |
| 10 or more | 13,022 | 6,056 | 2,944 | 1,087 | 970 | 1,965 | N |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Number of TVs or video displays** | | | | | | | |
| None | 24,339 | 16,270 | 4,346 | 634 | Q | Q | 2,365 |
| One | 9,990 | 7,189 | 2,390 | Q | Q | Q | Q |
| 2 to 4 | 16,465 | 10,921 | 3,980 | 1,043 | 325 | Q | Q |
| 5 to 9 | 8,148 | 4,502 | 2,055 | 863 | 508 | Q | N |
| 10 to 19 | 8,168 | 4,481 | 1,602 | 586 | 1,013 | 486 | N |
| 20 to 49 | 8,058 | 4,176 | 1,183 | 485 | 1,091 | 1,123 | N |
| 50 to 99 | 4,378 | 2,924 | 625 | Q | Q | 514 | N |
| 100 or more | 7,547 | 4,532 | 1,576 | 353 | 246 | 840 | N |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 9,884 | 5,175 | 2,263 | 467 | 669 | 1,311 | N |
| Fast food or small restaurant | 9,787 | 2,264 | 2,341 | 1,196 | 1,810 | 2,176 | N |
| Cafeteria or large restaurant | 15,222 | 10,251 | 2,289 | 858 | 687 | 1,137 | N |
| Commercial kitchen/ food preparation area | 16,150 | 10,651 | 3,160 | 685 | 771 | 873 | Q |
| Small kitchen area | 14,054 | 8,927 | 2,902 | 594 | 674 | 948 | Q |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 11,105 | 6,247 | 2,413 | 733 | 697 | 1,015 | N |
| Computer-based training room | 17,723 | 11,034 | 3,390 | 857 | 1,150 | 1,293 | N |
| Student or public computer center | 14,341 | 10,885 | 1,759 | 474 | 562 | 662 | N |
| **HVAC conservation features (more than one may apply)** | | | | | | | |
| Economizer cycle | 30,749 | 17,800 | 6,970 | 1,870 | 1,809 | 2,216 | Q |
| Regular HVAC maintenance | 69,244 | 43,275 | 14,554 | 3,849 | 3,520 | 3,703 | 343 |
| Building automation system (BAS)[2] | 37,051 | 21,900 | 7,518 | 2,079 | 2,557 | 2,803 | Q |
| **Window and interior lighting features (more than one may apply)** | | | | | | | |
| Multipaned windows | 60,362 | 37,610 | 12,227 | 3,587 | 3,077 | 2,781 | 1,079 |
| Tinted window glass | 45,025 | 25,142 | 9,907 | 3,144 | 2,938 | 2,903 | 991 |
| Reflective window glass | 15,908 | 8,158 | 3,000 | 1,502 | 1,679 | 1,429 | Q |
| External overhangs or awnings | 32,188 | 18,255 | 6,893 | 2,731 | 2,309 | 1,662 | 339 |
| Skylights or atriums | 22,261 | 12,677 | 4,618 | 1,294 | 1,664 | 1,683 | Q |
| Light scheduling | 30,263 | 15,750 | 5,979 | 2,881 | 2,712 | 2,890 | Q |
| Occupancy sensors | 35,871 | 19,816 | 7,946 | 2,516 | 2,688 | 2,854 | Q |
| Multi-level lighting or dimming | 14,534 | 7,199 | 3,149 | 1,245 | 1,513 | 1,405 | Q |
| Daylight harvesting | 6,114 | 2,643 | 1,705 | 363 | 660 | 728 | Q |
| Demand responsive lighting | 4,738 | 1,736 | 953 | 616 | 757 | 676 | N |
| Building automation system (BAS) for lighting[2] | 12,068 | 5,267 | 2,232 | 1,095 | 1,681 | 1,788 | Q |

## Table B20. Number of establishments in building, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Number of establishments in building | | | | | |
| | All buildings | One | 2 to 5 | 6 to 10 | 11 to 20 | More than 20 | Unocc-upied |
| **All buildings** | 87,093 | 54,994 | 17,756 | 4,425 | 3,704 | 3,821 | 2,393 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | |
| Heating | 63,167 | 39,016 | 13,596 | 3,841 | 3,219 | 2,993 | 502 |
| Cooling | 62,516 | 38,170 | 13,519 | 3,923 | 3,261 | 3,344 | 299 |
| Lighting | 78,594 | 50,744 | 16,528 | 4,238 | 3,456 | 3,628 | N |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: February 2015
Revised date: May 2016

## Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | Total floorspace (million square feet) | | |
|---|---|---|---|---|---|---|
| | | Buildings on campuses or complexes | | | Buildings on campuses or complexes | |
| | All buildings | All buildings | With central facilities plant | All buildings | All buildings | With central facilities plant |
| **All buildings** | 5,557 | 1,874 | 137 | 87,093 | 34,818 | 7,888 |
| **Building floorspace (square feet)** | | | | | | |
| 1,001 to 5,000 | 2,777 | 888 | 32 | 8,041 | 2,595 | 80 |
| 5,001 to 10,000 | 1,229 | 387 | Q | 8,900 | 2,824 | Q |
| 10,001 to 25,000 | 884 | 333 | 32 | 14,105 | 5,366 | 494 |
| 25,001 to 50,000 | 332 | 125 | 15 | 11,917 | 4,487 | 569 |
| 50,001 to 100,000 | 199 | 81 | 19 | 13,918 | 5,679 | 1,239 |
| 100,001 to 200,000 | 90 | 38 | 11 | 12,415 | 5,407 | 1,659 |
| 200,001 to 500,000 | 38 | 18 | 7 | 10,724 | 5,040 | 2,003 |
| Over 500,000 | 8 | 4 | 2 | 7,074 | 3,419 | 1,709 |
| **Principal building activity** | | | | | | |
| Education | 389 | 268 | 48 | 12,239 | 6,547 | 2,174 |
| Food sales | 177 | Q | N | 1,252 | Q | N |
| Food service | 380 | 65 | Q | 1,819 | 401 | Q |
| Health care | 157 | 48 | 5 | 4,155 | 2,464 | 1,229 |
| Inpatient | 10 | 6 | 2 | 2,374 | 1,846 | 1,016 |
| Outpatient | 147 | 42 | 3 | 1,781 | 619 | 213 |
| Lodging | 158 | 89 | 15 | 5,826 | 2,630 | 833 |
| Mercantile | 602 | 135 | N | 11,330 | 4,110 | N |
| Retail (other than mall) | 438 | 61 | N | 5,439 | 1,054 | N |
| Enclosed and strip malls | 164 | 74 | N | 5,890 | 3,056 | N |
| Office | 1,012 | 271 | 27 | 15,952 | 5,726 | 1,619 |
| Public assembly | 352 | 140 | 11 | 5,559 | 2,582 | 980 |
| Public order and safety | 84 | 19 | Q | 1,440 | 678 | Q |
| Religious worship | 412 | 120 | Q | 4,557 | 1,379 | Q |
| Service | 619 | 178 | Q | 4,630 | 1,609 | Q |
| Warehouse and storage | 796 | 402 | Q | 13,077 | 4,858 | Q |
| Other | 125 | 59 | Q | 2,002 | 691 | Q |
| Vacant | 296 | 68 | Q | 3,256 | 1,012 | Q |
| **Year constructed** | | | | | | |
| Before 1920 | 362 | 73 | Q | 3,983 | 1,500 | Q |
| 1920 to 1945 | 488 | 120 | 11 | 6,025 | 2,375 | 699 |
| 1946 to 1959 | 599 | 183 | 16 | 7,381 | 2,952 | 805 |
| 1960 to 1969 | 639 | 199 | 23 | 10,362 | 4,090 | 1,388 |
| 1970 to 1979 | 684 | 222 | 20 | 10,846 | 4,682 | 1,243 |
| 1980 to 1989 | 915 | 339 | 17 | 15,230 | 5,535 | 662 |
| 1990 to 1999 | 845 | 333 | 24 | 13,803 | 5,847 | 1,150 |
| 2000 to 2003 | 375 | 143 | 8 | 7,215 | 2,967 | Q |
| 2004 to 2007 | 347 | 142 | 7 | 6,524 | 2,609 | 534 |
| 2008 to 2012 | 303 | 119 | 6 | 5,723 | 2,262 | 312 |

## Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | Total floorspace (million square feet) | | |
|---|---|---|---|---|---|---|
| | | Buildings on campuses or complexes | | | Buildings on campuses or complexes | |
| | All buildings | All buildings | With central facilities plant | All buildings | All buildings | With central facilities plant |
| **All buildings** | 5,557 | 1,874 | 137 | 87,093 | 34,818 | 7,888 |
| **Census region** | | | | | | |
| Northeast | 805 | 255 | 24 | 15,534 | 6,505 | 1,817 |
| Midwest | 1,237 | 316 | 14 | 18,919 | 6,297 | 1,065 |
| South | 2,247 | 762 | 61 | 34,279 | 14,076 | 3,403 |
| West | 1,267 | 541 | 39 | 18,360 | 7,941 | 1,602 |
| **Number of workers (main shift)** | | | | | | |
| Fewer than 5 | 2,892 | 961 | 48 | 17,751 | 6,917 | 701 |
| 5 to 9 | 1,085 | 348 | 12 | 8,973 | 2,940 | 192 |
| 10 to 19 | 731 | 230 | 11 | 9,623 | 2,900 | 279 |
| 20 to 49 | 513 | 193 | 29 | 14,514 | 5,504 | 1,079 |
| 50 to 99 | 206 | 82 | 19 | 13,476 | 5,308 | 1,265 |
| 100 to 249 | 93 | 43 | 12 | 10,941 | 5,258 | 1,581 |
| 250 or more | 37 | 18 | 6 | 11,815 | 5,991 | 2,790 |
| **Weekly operating hours** | | | | | | |
| Fewer than 40 | 1,149 | 341 | Q | 8,220 | 2,664 | Q |
| 40 to 48 | 1,346 | 451 | 35 | 15,828 | 5,800 | 660 |
| 49 to 60 | 1,244 | 393 | 30 | 20,529 | 7,538 | 1,403 |
| 61 to 84 | 764 | 281 | 18 | 15,867 | 6,359 | 1,004 |
| 85 to 167 | 479 | 137 | 19 | 9,395 | 3,547 | 1,099 |
| Open continuously | 575 | 271 | 28 | 17,253 | 8,910 | 3,483 |
| **Ownership and occupancy** | | | | | | |
| Nongovernment owned | 4,781 | 1,426 | 57 | 67,550 | 24,504 | 3,989 |
| Owner occupied | 2,466 | 737 | 49 | 30,637 | 11,136 | 2,823 |
| Leased to tenant(s) | 1,745 | 568 | 4 | 26,115 | 9,979 | 593 |
| Owner occupied and leased | 349 | 76 | 2 | 8,873 | 2,857 | 532 |
| Unoccupied | 221 | 45 | Q | 1,925 | 532 | Q |
| Government owned | 776 | 448 | 79 | 19,543 | 10,314 | 3,898 |
| Federal | 33 | 13 | 2 | 1,573 | 887 | 473 |
| State | 185 | 141 | 42 | 5,539 | 4,071 | 2,388 |
| Local | 558 | 294 | 35 | 12,431 | 5,356 | 1,038 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | |
| Building owner | 4,715 | 1,638 | 135 | 73,702 | 29,356 | 7,697 |
| Business owner or tenant | 724 | 199 | Q | 11,309 | 4,713 | Q |
| Property management | 54 | 23 | Q | 1,250 | 559 | Q |
| Other | 64 | Q | Q | 832 | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | |
| Building owner | 4,876 | 1,706 | 135 | 76,271 | 30,384 | 7,698 |
| Business owner or tenant | 540 | 134 | Q | 8,256 | 3,441 | Q |
| Property management | 35 | 8 | N | 880 | 357 | N |
| Other | 106 | 25 | Q | 1,686 | 636 | Q |

## Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | Total floorspace (million square feet) | | |
|---|---|---|---|---|---|---|
| | | Buildings on campuses or complexes | | | Buildings on campuses or complexes | |
| | All buildings | All buildings | With central facilities plant | All buildings | All buildings | With central facilities plant |
| **All buildings** | 5,557 | 1,874 | 137 | 87,093 | 34,818 | 7,888 |
| **Campus or complex activity** | | | | | | |
| Not part of a campus or complex | 3,683 | N | N | 52,275 | N | N |
| Primary or secondary school | 237 | 237 | 33 | 4,616 | 4,616 | 744 |
| College or university | 84 | 84 | 58 | 4,068 | 4,068 | 3,282 |
| Office complex | 154 | 154 | 5 | 3,456 | 3,456 | 551 |
| Retail complex | 258 | 258 | N | 5,159 | 5,159 | N |
| Storage complex | 314 | 314 | Q | 3,212 | 3,212 | Q |
| Religious campus or complex | 197 | 197 | Q | 1,932 | 1,932 | Q |
| Health care complex | 52 | 52 | 13 | 3,362 | 3,362 | 1,624 |
| Lodging or resort complex | 65 | 65 | Q | 1,295 | 1,295 | Q |
| Transportation complex | 35 | 35 | Q | 554 | 554 | Q |
| Government complex | 104 | 104 | 11 | 2,107 | 2,107 | 681 |
| Other | 371 | 371 | 9 | 5,057 | 5,057 | 456 |
| **Central plant that produces (more than one may apply)** | | | | | | |
| District hot water | 55 | 55 | 55 | 3,701 | 3,701 | 3,701 |
| District steam | 48 | 48 | 48 | 4,582 | 4,582 | 4,582 |
| District chilled water | 100 | 100 | 100 | 6,361 | 6,361 | 6,361 |
| Electricity | 37 | 37 | 37 | 1,949 | 1,949 | 1,949 |
| **Energy sources (more than one may apply)** | | | | | | |
| Electricity | 5,234 | 1,736 | 134 | 84,869 | 33,957 | 7,845 |
| Natural gas | 2,933 | 841 | 64 | 58,725 | 22,179 | 4,721 |
| Fuel oil | 467 | 154 | 22 | 20,200 | 9,186 | 3,689 |
| District heat | 48 | 40 | 39 | 5,964 | 4,987 | 4,547 |
| District chilled water | 54 | 53 | 53 | 4,608 | 4,348 | 4,224 |
| Propane | 510 | 157 | 6 | 7,706 | 2,453 | 496 |
| Other | 172 | 46 | 2 | 3,826 | 1,416 | 416 |
| **Energy end uses (more than one may apply)** | | | | | | |
| Buildings with space heating | 4,722 | 1,450 | 126 | 80,078 | 31,299 | 7,689 |
| Buildings with cooling | 4,461 | 1,350 | 123 | 79,294 | 30,980 | 7,713 |
| Buildings with water heating | 4,423 | 1,339 | 124 | 79,015 | 31,074 | 7,628 |
| Buildings with cooking | 1,589 | 452 | 26 | 38,546 | 15,457 | 3,580 |
| Buildings with manufacturing | 259 | 57 | Q | 5,078 | 1,236 | Q |
| Buildings with electricity generation | 410 | 140 | 29 | 25,642 | 11,238 | 4,459 |

## Table B21. Multibuilding campuses or complexes, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | Total floorspace (million square feet) | | |
|---|---|---|---|---|---|---|
| | | Buildings on campuses or complexes | | | Buildings on campuses or complexes | |
| | All buildings | All buildings | With central facilities plant | All buildings | All buildings | With central facilities plant |
| **All buildings** | 5,557 | 1,874 | 137 | 87,093 | 34,818 | 7,888 |
| **Heating equipment (more than one may apply)** | | | | | | |
| Heat pumps | 628 | 240 | 21 | 11,846 | 5,105 | 975 |
| Furnaces | 755 | 209 | 7 | 8,654 | 3,005 | 330 |
| Individual space heaters | 1,247 | 375 | 16 | 20,766 | 8,190 | 1,306 |
| District heat | 48 | 40 | 39 | 5,925 | 4,965 | 4,535 |
| Boilers | 544 | 187 | 29 | 22,443 | 9,043 | 2,317 |
| Packaged heating units | 2,802 | 802 | 47 | 49,188 | 17,187 | 2,055 |
| Other | 62 | 14 | Q | 1,574 | 746 | Q |
| **Cooling equipment (more than one may apply)** | | | | | | |
| Residential-type central air conditioners | 1,546 | 389 | 13 | 14,765 | 4,416 | 440 |
| Heat pumps | 692 | 268 | 19 | 12,538 | 5,545 | 865 |
| Individual air conditioners | 709 | 218 | 13 | 12,420 | 4,915 | 1,140 |
| District chilled water | 54 | 53 | 53 | 4,608 | 4,348 | 4,224 |
| Central chillers | 163 | 67 | 18 | 17,041 | 7,453 | 2,455 |
| Packaged air conditioning units | 1,909 | 585 | 37 | 45,153 | 16,738 | 2,634 |
| Swamp coolers | 109 | 30 | Q | 1,918 | 730 | Q |
| Other | Q | Q | Q | 328 | Q | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | |
| Heating | 1,874 | 544 | 32 | 27,558 | 10,069 | 1,131 |
| Cooling | 1,971 | 569 | 32 | 30,702 | 11,384 | 1,895 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B22. Energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 5,557 | 5,239 | 5,234 | 2,933 | 467 | 48 | 54 | 510 | 172 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,559 | 2,556 | 1,253 | 204 | Q | Q | 252 | 69 |
| 5,001 to 10,000 | 1,229 | 1,172 | 1,171 | 660 | 74 | Q | Q | 134 | 41 |
| 10,001 to 25,000 | 884 | 852 | 852 | 548 | 67 | Q | 9 | 74 | 31 |
| 25,001 to 50,000 | 332 | 326 | 326 | 227 | 39 | 6 | Q | 24 | 16 |
| 50,001 to 100,000 | 199 | 195 | 195 | 142 | 39 | 10 | 10 | 14 | 8 |
| 100,001 to 200,000 | 90 | 90 | 90 | 67 | 19 | 9 | 9 | 8 | 4 |
| 200,001 to 500,000 | 38 | 37 | 37 | 29 | 18 | 5 | 4 | 3 | 3 |
| Over 500,000 | 8 | 8 | 8 | 6 | 6 | 2 | 1 | 1 | 1 |
| **Principal building activity** | | | | | | | | | |
| Education | 389 | 389 | 389 | 234 | 30 | 12 | 25 | 25 | 10 |
| Food sales | 177 | 177 | 177 | 82 | Q | N | N | Q | Q |
| Food service | 380 | 380 | 380 | 283 | Q | Q | Q | 47 | Q |
| Health care | 157 | 157 | 157 | 95 | 23 | 2 | Q | 10 | Q |
| Inpatient | 10 | 10 | 10 | 8 | 9 | 1 | 1 | 2 | Q |
| Outpatient | 147 | 147 | 147 | 87 | 15 | Q | Q | Q | Q |
| Lodging | 158 | 158 | 158 | 99 | 28 | 4 | Q | 26 | Q |
| Mercantile | 602 | 602 | 599 | 356 | 44 | Q | N | 51 | 22 |
| Retail (other than mall) | 438 | 438 | 435 | 232 | 37 | Q | N | 43 | Q |
| Enclosed and strip malls | 164 | 164 | 164 | 124 | 7 | Q | N | 8 | Q |
| Office | 1,012 | 1,012 | 1,012 | 595 | 86 | 12 | 10 | 35 | 24 |
| Public assembly | 352 | 352 | 352 | 205 | 27 | 7 | 5 | 67 | 17 |
| Public order and safety | 84 | 84 | 84 | 53 | 34 | Q | Q | Q | Q |
| Religious worship | 412 | 412 | 412 | 229 | 23 | N | Q | 66 | Q |
| Service | 619 | 602 | 602 | 339 | 86 | Q | N | 69 | 39 |
| Warehouse and storage | 796 | 676 | 675 | 261 | 26 | Q | N | 45 | 16 |
| Other | 125 | 123 | 123 | 59 | 28 | Q | Q | 22 | Q |
| Vacant | 296 | 116 | 116 | 44 | Q | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 362 | 337 | 337 | 202 | 56 | 5 | Q | 45 | Q |
| 1920 to 1945 | 488 | 459 | 458 | 288 | 44 | 7 | Q | 35 | 22 |
| 1946 to 1959 | 599 | 554 | 554 | 334 | 53 | 5 | Q | 49 | 15 |
| 1960 to 1969 | 639 | 609 | 609 | 401 | 75 | 9 | 11 | 54 | 20 |
| 1970 to 1979 | 684 | 651 | 651 | 406 | 58 | 10 | 9 | 62 | 24 |
| 1980 to 1989 | 915 | 856 | 856 | 431 | 50 | 2 | 3 | 52 | 21 |
| 1990 to 1999 | 845 | 764 | 762 | 407 | 51 | 3 | 10 | 89 | 19 |
| 2000 to 2003 | 375 | 370 | 370 | 182 | 35 | 4 | 5 | 49 | 10 |
| 2004 to 2007 | 347 | 341 | 341 | 144 | 18 | 2 | 6 | 43 | Q |
| 2008 to 2012 | 303 | 297 | 296 | 138 | 27 | Q | Q | 31 | Q |

## Table B22. Energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 5,557 | 5,239 | 5,234 | 2,933 | 467 | 48 | 54 | 510 | 172 |
| **Census region and division** | | | | | | | | | |
| Northeast | 805 | 773 | 770 | 433 | 217 | 16 | 7 | 106 | 51 |
| New England | 302 | 287 | 285 | 98 | 115 | Q | Q | 75 | Q |
| Middle Atlantic | 504 | 486 | 485 | 335 | 102 | 9 | Q | 31 | 22 |
| Midwest | 1,237 | 1,173 | 1,171 | 843 | 77 | 7 | 2 | 133 | 50 |
| East North Central | 735 | 706 | 706 | 577 | 46 | 3 | 2 | 37 | 28 |
| West North Central | 502 | 467 | 466 | 266 | 31 | 4 | Q | 96 | 22 |
| South | 2,247 | 2,086 | 2,086 | 950 | 131 | 18 | 35 | 187 | 34 |
| South Atlantic | 1,091 | 1,020 | 1,020 | 387 | 69 | 9 | 22 | 94 | 19 |
| East South Central | 370 | 354 | 354 | 191 | 30 | Q | Q | 49 | Q |
| West South Central | 786 | 712 | 712 | 372 | 32 | 5 | 6 | 43 | Q |
| West | 1,267 | 1,207 | 1,207 | 707 | 43 | 7 | 9 | 84 | 37 |
| Mountain | 338 | 316 | 316 | 218 | 8 | Q | 1 | 29 | 12 |
| Pacific | 929 | 891 | 891 | 489 | 35 | 5 | 8 | 55 | Q |
| **Climate region[2]** | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,934 | 1,929 | 1,264 | 271 | 18 | 7 | 227 | 112 |
| Mixed-humid | 1,743 | 1,637 | 1,637 | 932 | 131 | 20 | 18 | 170 | 39 |
| Mixed-dry/Hot-dry | 837 | 791 | 791 | 428 | 22 | 4 | 7 | 59 | 14 |
| Hot-humid | 799 | 740 | 740 | 215 | 36 | Q | 21 | 51 | Q |
| Marine | 147 | 138 | 138 | 94 | 7 | Q | Q | Q | Q |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 2,892 | 2,575 | 2,570 | 1,225 | 214 | Q | Q | 286 | 84 |
| 5 to 9 | 1,085 | 1,084 | 1,084 | 606 | 73 | Q | Q | 98 | 36 |
| 10 to 19 | 731 | 731 | 731 | 498 | 45 | Q | Q | 66 | 24 |
| 20 to 49 | 513 | 513 | 513 | 348 | 44 | 11 | 9 | 40 | 11 |
| 50 to 99 | 206 | 206 | 206 | 154 | 39 | 7 | 9 | 11 | 9 |
| 100 to 249 | 93 | 93 | 93 | 74 | 30 | 7 | 6 | 7 | 6 |
| 250 or more | 37 | 37 | 37 | 27 | 21 | 7 | 5 | 2 | 2 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 1,149 | 942 | 941 | 433 | 58 | Q | Q | 133 | Q |
| 40 to 48 | 1,346 | 1,325 | 1,325 | 726 | 125 | 7 | 12 | 93 | 30 |
| 49 to 60 | 1,244 | 1,232 | 1,229 | 757 | 102 | 11 | 10 | 112 | 65 |
| 61 to 84 | 764 | 744 | 744 | 454 | 49 | 9 | 9 | 59 | 26 |
| 85 to 167 | 479 | 466 | 466 | 281 | 30 | 6 | 12 | 40 | 17 |
| Open continuously | 575 | 529 | 529 | 282 | 102 | 11 | 11 | 73 | 19 |

## Table B22. Energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 5,557 | 5,239 | 5,234 | 2,933 | 467 | 48 | 54 | 510 | 172 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 4,781 | 4,484 | 4,480 | 2,489 | 365 | 22 | 17 | 435 | 145 |
| Owner occupied | 2,466 | 2,400 | 2,395 | 1,317 | 223 | 13 | 14 | 297 | 100 |
| Leased to tenant(s) | 1,745 | 1,675 | 1,675 | 951 | 108 | Q | 2 | 107 | 31 |
| Owner occupied and leased | 349 | 344 | 344 | 198 | 29 | 2 | 1 | 29 | 13 |
| Unoccupied | 221 | 66 | 66 | 23 | Q | Q | N | Q | Q |
| Government owned | 776 | 755 | 755 | 444 | 101 | 26 | 37 | 75 | 27 |
| Federal | 33 | 33 | 33 | 21 | Q | 1 | Q | Q | Q |
| State | 185 | 183 | 183 | 100 | 15 | 18 | 20 | 13 | Q |
| Local | 558 | 538 | 538 | 322 | 83 | 7 | 16 | 57 | 16 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 5,234 | 5,234 | 5,234 | 2,933 | 467 | 48 | 54 | 507 | 167 |
| Natural gas | 2,933 | 2,933 | 2,933 | 2,933 | 164 | 17 | 21 | 69 | 72 |
| Fuel oil | 467 | 467 | 467 | 164 | 467 | 10 | 8 | 90 | 41 |
| District heat | 48 | 48 | 48 | 17 | 10 | 48 | 26 | Q | 1 |
| District chilled water | 54 | 54 | 54 | 21 | 8 | 26 | 54 | Q | Q |
| Propane | 510 | 510 | 507 | 69 | 90 | Q | Q | 510 | 38 |
| Other | 172 | 172 | 167 | 72 | 41 | 1 | Q | 38 | 172 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 4,722 | 4,722 | 4,717 | 2,888 | 455 | 48 | 51 | 491 | 172 |
| Buildings with cooling | 4,461 | 4,461 | 4,461 | 2,700 | 360 | 44 | 54 | 420 | 126 |
| Buildings with water heating | 4,423 | 4,423 | 4,423 | 2,742 | 411 | 45 | 51 | 466 | 141 |
| Buildings with cooking | 1,589 | 1,589 | 1,589 | 1,087 | 166 | 14 | 9 | 234 | 60 |
| Buildings with manufacturing | 259 | 259 | 259 | 153 | 25 | Q | Q | 43 | Q |
| Buildings with electricity generation | 410 | 410 | 410 | 270 | 214 | 15 | 12 | 79 | 73 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 153 | 153 | 153 | 96 | 24 | 3 | 2 | 22 | 5 |
| Fast food or small restaurant | 173 | 173 | 173 | 132 | 19 | 2 | 1 | 24 | 5 |
| Cafeteria or large restaurant | 130 | 130 | 130 | 104 | 35 | 6 | 3 | 17 | 11 |
| Commercial kitchen/ food preparation area | 282 | 282 | 282 | 221 | 49 | 4 | 3 | 38 | 10 |
| Small kitchen area | 736 | 736 | 736 | 459 | 82 | 3 | 3 | 121 | 31 |

## Table B22. Energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 5,557 | 5,239 | 5,234 | 2,933 | 467 | 48 | 54 | 510 | 172 |

[1]*Other* includes wood, coal, solar, and all other energy sources.

[2]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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B23. Energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 87,093 | 84,893 | 84,869 | 58,725 | 20,200 | 5,964 | 4,608 | 7,706 | 3,826 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 7,501 | 7,492 | 3,757 | 604 | Q | Q | 762 | 193 |
| 5,001 to 10,000 | 8,900 | 8,505 | 8,489 | 4,817 | 559 | Q | Q | 959 | 303 |
| 10,001 to 25,000 | 14,105 | 13,565 | 13,565 | 8,823 | 1,123 | Q | 145 | 1,124 | 486 |
| 25,001 to 50,000 | 11,917 | 11,672 | 11,672 | 8,148 | 1,490 | 213 | Q | 920 | 520 |
| 50,001 to 100,000 | 13,918 | 13,604 | 13,604 | 9,935 | 2,822 | 704 | 567 | 1,042 | 566 |
| 100,001 to 200,000 | 12,415 | 12,362 | 12,362 | 9,416 | 2,858 | 1,313 | 1,273 | 1,061 | 564 |
| 200,001 to 500,000 | 10,724 | 10,652 | 10,652 | 8,293 | 5,370 | 1,565 | 1,064 | 959 | 809 |
| Over 500,000 | 7,074 | 7,033 | 7,033 | 5,535 | 5,374 | 2,001 | 1,306 | 879 | 384 |
| **Principal building activity** | | | | | | | | | |
| Education | 12,239 | 12,239 | 12,239 | 9,520 | 2,185 | 1,155 | 1,292 | 877 | 806 |
| Food sales | 1,252 | 1,252 | 1,252 | 846 | Q | N | N | Q | Q |
| Food service | 1,819 | 1,819 | 1,819 | 1,394 | Q | Q | Q | 237 | Q |
| Health care | 4,155 | 4,155 | 4,155 | 3,292 | 2,776 | 684 | 523 | 315 | 106 |
| Inpatient | 2,374 | 2,374 | 2,374 | 2,113 | 2,257 | 576 | 477 | 225 | Q |
| Outpatient | 1,781 | 1,781 | 1,781 | 1,179 | 520 | Q | Q | Q | Q |
| Lodging | 5,826 | 5,826 | 5,826 | 4,918 | 2,051 | 630 | Q | 883 | Q |
| Mercantile | 11,330 | 11,330 | 11,320 | 8,493 | 1,119 | Q | N | 839 | 482 |
| Retail (other than mall) | 5,439 | 5,439 | 5,430 | 3,371 | 454 | Q | N | 575 | Q |
| Enclosed and strip malls | 5,890 | 5,890 | 5,890 | 5,123 | 665 | Q | N | 264 | Q |
| Office | 15,952 | 15,952 | 15,952 | 10,290 | 5,328 | 1,794 | 1,096 | 358 | 757 |
| Public assembly | 5,559 | 5,559 | 5,559 | 3,888 | 1,663 | 888 | 880 | 858 | 288 |
| Public order and safety | 1,440 | 1,440 | 1,440 | 1,007 | 908 | Q | Q | Q | Q |
| Religious worship | 4,557 | 4,557 | 4,557 | 3,016 | 391 | N | Q | 487 | Q |
| Service | 4,630 | 4,512 | 4,512 | 2,790 | 733 | Q | N | 555 | 383 |
| Warehouse and storage | 13,077 | 12,584 | 12,568 | 7,007 | 1,773 | Q | N | 1,516 | 549 |
| Other | 2,002 | 1,972 | 1,972 | 1,378 | 738 | Q | Q | 393 | Q |
| Vacant | 3,256 | 1,699 | 1,699 | 886 | Q | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 3,983 | 3,800 | 3,800 | 2,320 | 1,099 | 540 | Q | 265 | Q |
| 1920 to 1945 | 6,025 | 5,882 | 5,866 | 3,792 | 1,447 | 888 | Q | 321 | 291 |
| 1946 to 1959 | 7,381 | 7,208 | 7,208 | 5,393 | 1,530 | 446 | 203 | 525 | 415 |
| 1960 to 1969 | 10,362 | 10,198 | 10,198 | 7,553 | 2,407 | 1,002 | 923 | 921 | 490 |
| 1970 to 1979 | 10,846 | 10,556 | 10,556 | 7,979 | 2,614 | 930 | 811 | 880 | 499 |
| 1980 to 1989 | 15,230 | 14,791 | 14,791 | 9,887 | 3,806 | 449 | 310 | 1,214 | 591 |
| 1990 to 1999 | 13,803 | 13,123 | 13,118 | 9,162 | 3,201 | 642 | 664 | 1,339 | 572 |
| 2000 to 2003 | 7,215 | 7,193 | 7,193 | 4,723 | 1,467 | Q | Q | 903 | 349 |
| 2004 to 2007 | 6,524 | 6,485 | 6,485 | 4,096 | 1,497 | Q | 418 | 780 | Q |
| 2008 to 2012 | 5,723 | 5,658 | 5,653 | 3,821 | 1,133 | Q | Q | 559 | Q |

## Table B23. Energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 87,093 | 84,893 | 84,869 | 58,725 | 20,200 | 5,964 | 4,608 | 7,706 | 3,826 |
| **Census region and division** | | | | | | | | | |
| Northeast | 15,534 | 15,300 | 15,291 | 11,068 | 6,079 | 1,981 | 794 | 1,746 | 1,087 |
| New England | 4,302 | 4,197 | 4,192 | 2,241 | 1,866 | Q | Q | 861 | 397 |
| Middle Atlantic | 11,232 | 11,104 | 11,099 | 8,827 | 4,213 | 1,628 | 656 | 885 | 691 |
| Midwest | 18,919 | 18,575 | 18,560 | 15,025 | 3,935 | 906 | 585 | 1,909 | 798 |
| East North Central | 12,742 | 12,544 | 12,544 | 10,790 | 2,619 | 574 | 420 | 829 | 532 |
| West North Central | 6,178 | 6,032 | 6,016 | 4,236 | 1,316 | 332 | Q | 1,080 | 267 |
| South | 34,279 | 33,026 | 33,026 | 19,900 | 7,051 | 2,191 | 2,479 | 2,567 | 907 |
| South Atlantic | 17,981 | 17,608 | 17,608 | 9,984 | 4,419 | 1,159 | 1,202 | 1,476 | 554 |
| East South Central | 4,904 | 4,824 | 4,824 | 3,436 | 797 | Q | Q | 470 | Q |
| West South Central | 11,394 | 10,594 | 10,594 | 6,480 | 1,835 | 646 | 773 | 621 | Q |
| West | 18,360 | 17,992 | 17,992 | 12,732 | 3,135 | 886 | 749 | 1,484 | 1,034 |
| Mountain | 4,981 | 4,812 | 4,812 | 3,766 | 1,092 | 482 | Q | 503 | 403 |
| Pacific | 13,379 | 13,180 | 13,180 | 8,966 | 2,043 | 404 | 329 | 982 | 631 |
| **Climate region[2]** | | | | | | | | | |
| Very cold/Cold | 31,898 | 31,311 | 31,286 | 24,511 | 8,008 | 1,926 | 1,227 | 3,594 | 2,011 |
| Mixed-humid | 27,873 | 27,422 | 27,422 | 19,361 | 7,287 | 3,012 | 2,027 | 2,183 | 1,017 |
| Mixed-dry/Hot-dry | 12,037 | 11,743 | 11,743 | 7,520 | 1,605 | Q | Q | 842 | 496 |
| Hot-humid | 12,831 | 12,002 | 12,002 | 5,300 | 2,597 | 374 | 752 | 998 | Q |
| Marine | 2,454 | 2,416 | 2,416 | 2,033 | 703 | Q | Q | Q | Q |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 17,751 | 15,555 | 15,530 | 7,858 | 1,489 | Q | Q | 1,689 | 543 |
| 5 to 9 | 8,973 | 8,970 | 8,970 | 5,355 | 717 | Q | Q | 902 | 359 |
| 10 to 19 | 9,623 | 9,623 | 9,623 | 6,799 | 765 | Q | Q | 932 | 365 |
| 20 to 49 | 14,514 | 14,514 | 14,514 | 10,613 | 1,824 | 623 | 505 | 1,246 | 416 |
| 50 to 99 | 13,476 | 13,476 | 13,476 | 10,320 | 3,137 | 669 | 683 | 1,052 | 656 |
| 100 to 249 | 10,941 | 10,941 | 10,941 | 8,880 | 4,040 | 1,096 | 982 | 958 | 870 |
| 250 or more | 11,815 | 11,815 | 11,815 | 8,900 | 8,229 | 3,082 | 1,986 | 927 | 618 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 8,220 | 6,553 | 6,548 | 3,705 | 538 | Q | Q | 691 | Q |
| 40 to 48 | 15,828 | 15,737 | 15,737 | 9,960 | 2,668 | 403 | 521 | 936 | 338 |
| 49 to 60 | 20,529 | 20,445 | 20,425 | 14,006 | 3,910 | 1,099 | 805 | 1,680 | 1,300 |
| 61 to 84 | 15,867 | 15,800 | 15,800 | 11,494 | 3,104 | 844 | 524 | 1,261 | 880 |
| 85 to 167 | 9,395 | 9,364 | 9,364 | 6,734 | 1,868 | 631 | 606 | 1,296 | 552 |
| Open continuously | 17,253 | 16,994 | 16,994 | 12,827 | 8,113 | 2,815 | 2,005 | 1,842 | 661 |

## Table B23. Energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 87,093 | 84,893 | 84,869 | 58,725 | 20,200 | 5,964 | 4,608 | 7,706 | 3,826 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 67,550 | 65,645 | 65,620 | 44,481 | 14,057 | 3,135 | 2,104 | 5,896 | 2,663 |
| Owner occupied | 30,637 | 30,345 | 30,321 | 20,542 | 6,308 | 1,842 | 1,478 | 3,569 | 1,431 |
| Leased to tenant(s) | 26,115 | 25,809 | 25,809 | 17,361 | 4,749 | 730 | 297 | 1,567 | 789 |
| Owner occupied and leased | 8,873 | 8,820 | 8,820 | 6,254 | 2,928 | 557 | 329 | 743 | 427 |
| Unoccupied | 1,925 | 670 | 670 | 325 | Q | Q | N | Q | Q |
| Government owned | 19,543 | 19,248 | 19,248 | 14,244 | 6,143 | 2,829 | 2,504 | 1,810 | 1,163 |
| Federal | 1,573 | 1,573 | 1,573 | 868 | 1,083 | 708 | Q | Q | Q |
| State | 5,539 | 5,522 | 5,522 | 3,939 | 1,400 | 1,538 | 1,448 | 394 | Q |
| Local | 12,431 | 12,153 | 12,153 | 9,438 | 3,660 | 584 | 612 | 1,332 | 616 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 84,869 | 84,869 | 84,869 | 58,725 | 20,200 | 5,964 | 4,608 | 7,686 | 3,801 |
| Natural gas | 58,725 | 58,725 | 58,725 | 58,725 | 13,663 | 2,860 | 2,431 | 3,396 | 2,637 |
| Fuel oil | 20,200 | 20,200 | 20,200 | 13,663 | 20,200 | 3,110 | 2,134 | 3,080 | 1,133 |
| District heat | 5,964 | 5,964 | 5,964 | 2,860 | 3,110 | 5,964 | 3,730 | Q | 335 |
| District chilled water | 4,608 | 4,608 | 4,608 | 2,431 | 2,134 | 3,730 | 4,608 | Q | Q |
| Propane | 7,706 | 7,706 | 7,686 | 3,396 | 3,080 | Q | Q | 7,706 | 488 |
| Other | 3,826 | 3,826 | 3,801 | 2,637 | 1,133 | 335 | Q | 488 | 3,826 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 80,078 | 80,078 | 80,053 | 58,129 | 19,670 | 5,962 | 4,561 | 7,332 | 3,826 |
| Buildings with cooling | 79,294 | 79,294 | 79,294 | 56,899 | 19,309 | 5,903 | 4,608 | 7,061 | 3,573 |
| Buildings with water heating | 79,015 | 79,015 | 79,015 | 57,019 | 19,708 | 5,822 | 4,511 | 7,383 | 3,679 |
| Buildings with cooking | 38,546 | 38,546 | 38,546 | 31,026 | 12,694 | 3,154 | 2,084 | 4,209 | 2,076 |
| Buildings with manufacturing | 5,078 | 5,078 | 5,078 | 3,740 | 863 | Q | Q | 809 | Q |
| Buildings with electricity generation | 25,642 | 25,642 | 25,642 | 20,271 | 17,073 | 3,749 | 2,731 | 3,380 | 2,881 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 9,884 | 9,884 | 9,884 | 7,867 | 4,868 | 1,613 | 996 | 1,625 | 552 |
| Fast food or small restaurant | 9,787 | 9,787 | 9,787 | 8,345 | 3,624 | 1,195 | 828 | 1,039 | 418 |
| Cafeteria or large restaurant | 15,222 | 15,222 | 15,222 | 13,043 | 7,093 | 1,828 | 1,309 | 1,633 | 1,045 |
| Commercial kitchen/ food preparation area | 16,150 | 16,150 | 16,150 | 14,082 | 6,678 | 1,562 | 1,119 | 1,852 | 788 |
| Small kitchen area | 14,054 | 14,054 | 14,054 | 10,883 | 4,666 | 1,138 | 761 | 2,062 | 844 |

## Table B23. Energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Energy sources used (more than one may apply) | | | | | | |
| | All buildings | Buildings using any energy source | Elec-tricity | Natural gas | Fuel oil | District heat | District chilled water | Propane | Other[1] |
| **All buildings** | 87,093 | 84,893 | 84,869 | 58,725 | 20,200 | 5,964 | 4,608 | 7,706 | 3,826 |

[1]*Other* includes wood, coal, solar, and all other energy sources.

[2]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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B24. Energy end uses, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 5,557 | 4,722 | 4,461 | 4,423 | 1,589 | 259 | 410 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,257 | 2,062 | 2,032 | 673 | 86 | 92 |
| 5,001 to 10,000 | 1,229 | 1,046 | 1,004 | 992 | 376 | 75 | 77 |
| 10,001 to 25,000 | 884 | 797 | 774 | 775 | 257 | 51 | 64 |
| 25,001 to 50,000 | 332 | 304 | 302 | 307 | 108 | 28 | 55 |
| 50,001 to 100,000 | 199 | 187 | 187 | 186 | 96 | 11 | 58 |
| 100,001 to 200,000 | 90 | 86 | 88 | 86 | 48 | 5 | 35 |
| 200,001 to 500,000 | 38 | 36 | 37 | 36 | 25 | 2 | 22 |
| Over 500,000 | 8 | 8 | 8 | 8 | 6 | Q | 6 |
| **Principal building activity** | | | | | | | |
| Education | 389 | 379 | 361 | 332 | 169 | Q | 38 |
| Food sales | 177 | 160 | 165 | 177 | 111 | Q | 16 |
| Food service | 380 | 359 | 358 | 379 | 353 | Q | Q |
| Health care | 157 | 153 | 154 | 156 | 22 | Q | 28 |
| Inpatient | 10 | 9 | 10 | 10 | 9 | Q | 9 |
| Outpatient | 147 | 144 | 145 | 146 | 13 | Q | 19 |
| Lodging | 158 | 153 | 145 | 158 | 94 | Q | 34 |
| Mercantile | 602 | 572 | 560 | 531 | 157 | 28 | 31 |
| Retail (other than mall) | 438 | 412 | 396 | 367 | 52 | Q | 20 |
| Enclosed and strip malls | 164 | 160 | 164 | 164 | 105 | Q | 10 |
| Office | 1,012 | 989 | 995 | 943 | 130 | 31 | 94 |
| Public assembly | 352 | 330 | 295 | 317 | 143 | Q | 21 |
| Public order and safety | 84 | 81 | 74 | 80 | 56 | N | 59 |
| Religious worship | 412 | 408 | 375 | 383 | 261 | Q | Q |
| Service | 619 | 528 | 435 | 442 | 39 | 46 | 19 |
| Warehouse and storage | 796 | 420 | 391 | 370 | 33 | 77 | 29 |
| Other | 125 | 100 | 90 | 98 | Q | 41 | 17 |
| Vacant | 296 | 87 | 63 | 56 | Q | Q | Q |
| **Year constructed** | | | | | | | |
| Before 1920 | 362 | 322 | 275 | 286 | 130 | 15 | 14 |
| 1920 to 1945 | 488 | 413 | 367 | 383 | 138 | Q | 22 |
| 1946 to 1959 | 599 | 517 | 477 | 460 | 189 | 21 | 24 |
| 1960 to 1969 | 639 | 559 | 538 | 540 | 188 | 25 | 57 |
| 1970 to 1979 | 684 | 599 | 563 | 577 | 195 | 32 | 60 |
| 1980 to 1989 | 915 | 754 | 730 | 727 | 221 | 51 | 59 |
| 1990 to 1999 | 845 | 675 | 663 | 631 | 232 | 31 | 63 |
| 2000 to 2003 | 375 | 322 | 321 | 312 | 102 | 29 | 35 |
| 2004 to 2007 | 347 | 291 | 293 | 275 | 108 | 19 | 34 |
| 2008 to 2012 | 303 | 270 | 235 | 231 | 84 | Q | 42 |

## Table B24. Energy end uses, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 5,557 | 4,722 | 4,461 | 4,423 | 1,589 | 259 | 410 |
| **Census region and division** | | | | | | | |
| Northeast | 805 | 727 | 592 | 671 | 249 | 44 | 107 |
| New England | 302 | 264 | 187 | 235 | 104 | 20 | 39 |
| Middle Atlantic | 504 | 463 | 405 | 436 | 145 | 25 | 68 |
| Midwest | 1,237 | 1,096 | 970 | 1,014 | 370 | 55 | 84 |
| East North Central | 735 | 670 | 601 | 629 | 233 | 29 | 53 |
| West North Central | 502 | 426 | 370 | 385 | 137 | 26 | 31 |
| South | 2,247 | 1,842 | 1,891 | 1,740 | 664 | 83 | 141 |
| South Atlantic | 1,091 | 873 | 935 | 856 | 307 | 31 | 71 |
| East South Central | 370 | 336 | 335 | 325 | 144 | Q | 29 |
| West South Central | 786 | 633 | 621 | 560 | 213 | 41 | 40 |
| West | 1,267 | 1,057 | 1,007 | 997 | 306 | 77 | 78 |
| Mountain | 338 | 293 | 259 | 260 | 84 | Q | 19 |
| Pacific | 929 | 764 | 748 | 737 | 222 | 63 | 59 |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 2,031 | 1,792 | 1,497 | 1,639 | 574 | 110 | 186 |
| Mixed-humid | 1,743 | 1,545 | 1,482 | 1,445 | 558 | 57 | 115 |
| Mixed-dry/Hot-dry | 837 | 676 | 682 | 635 | 188 | Q | 47 |
| Hot-humid | 799 | 593 | 699 | 590 | 230 | 32 | 51 |
| Marine | 147 | 116 | 101 | 113 | 39 | Q | 10 |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 2,892 | 2,184 | 1,932 | 1,917 | 660 | 92 | 89 |
| 5 to 9 | 1,085 | 1,020 | 999 | 977 | 308 | 61 | 67 |
| 10 to 19 | 731 | 692 | 699 | 700 | 271 | 42 | 65 |
| 20 to 49 | 513 | 494 | 498 | 495 | 197 | 44 | 63 |
| 50 to 99 | 206 | 203 | 203 | 203 | 92 | 13 | 58 |
| 100 to 249 | 93 | 92 | 93 | 93 | 40 | 5 | 45 |
| 250 or more | 37 | 37 | 37 | 37 | 21 | 2 | 23 |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 1,149 | 815 | 690 | 703 | 329 | Q | 28 |
| 40 to 48 | 1,346 | 1,230 | 1,168 | 1,107 | 228 | 93 | 83 |
| 49 to 60 | 1,244 | 1,143 | 1,084 | 1,063 | 251 | 95 | 87 |
| 61 to 84 | 764 | 672 | 669 | 676 | 290 | 32 | 42 |
| 85 to 167 | 479 | 414 | 419 | 428 | 249 | 14 | 43 |
| Open continuously | 575 | 448 | 431 | 447 | 242 | 10 | 126 |

## Table B24. Energy end uses, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 5,557 | 4,722 | 4,461 | 4,423 | 1,589 | 259 | 410 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 4,781 | 4,028 | 3,817 | 3,791 | 1,359 | 248 | 266 |
| Owner occupied | 2,466 | 2,198 | 2,046 | 2,048 | 854 | 130 | 160 |
| Leased to tenant(s) | 1,745 | 1,458 | 1,421 | 1,401 | 416 | 100 | 75 |
| Owner occupied and leased | 349 | 325 | 324 | 316 | 82 | 18 | 30 |
| Unoccupied | 221 | 47 | 26 | 26 | Q | N | Q |
| Government owned | 776 | 694 | 644 | 632 | 230 | 10 | 144 |
| Federal | 33 | 33 | 33 | 33 | 8 | Q | 6 |
| State | 185 | 168 | 159 | 146 | 40 | Q | 27 |
| Local | 558 | 493 | 452 | 452 | 182 | Q | 111 |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 5,234 | 4,717 | 4,461 | 4,423 | 1,589 | 259 | 410 |
| Natural gas | 2,933 | 2,888 | 2,700 | 2,742 | 1,087 | 153 | 270 |
| Fuel oil | 467 | 455 | 360 | 411 | 166 | 25 | 214 |
| District heat | 48 | 48 | 44 | 45 | 14 | Q | 15 |
| District chilled water | 54 | 51 | 54 | 51 | 9 | Q | 12 |
| Propane | 510 | 491 | 420 | 466 | 234 | 43 | 79 |
| Other | 172 | 172 | 126 | 141 | 60 | Q | 73 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 4,722 | 4,722 | 4,272 | 4,237 | 1,525 | 234 | 400 |
| Buildings with cooling | 4,461 | 4,272 | 4,461 | 4,097 | 1,497 | 217 | 386 |
| Buildings with water heating | 4,423 | 4,237 | 4,097 | 4,423 | 1,573 | 228 | 395 |
| Buildings with cooking | 1,589 | 1,525 | 1,497 | 1,573 | 1,589 | 64 | 202 |
| Buildings with manufacturing | 259 | 234 | 217 | 228 | 64 | 259 | 18 |
| Buildings with electricity generation | 410 | 400 | 386 | 395 | 202 | 18 | 410 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 153 | 142 | 147 | 150 | 153 | Q | 32 |
| Fast food or small restaurant | 173 | 165 | 172 | 173 | 173 | Q | 32 |
| Cafeteria or large restaurant | 130 | 128 | 124 | 130 | 130 | Q | 47 |
| Commercial kitchen/ food preparation area | 282 | 276 | 275 | 282 | 282 | 14 | 74 |
| Small kitchen area | 736 | 715 | 679 | 723 | 736 | 30 | 86 |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 97 | 93 | 96 | 94 | 35 | 6 | 52 |
| Computer-based training room | 244 | 233 | 242 | 241 | 109 | 9 | 64 |
| Student or public computer center | 238 | 236 | 230 | 230 | 138 | Q | 46 |

## Table B24. Energy end uses, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 5,557 | 4,722 | 4,461 | 4,423 | 1,589 | 259 | 410 |

[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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B25. Energy end uses, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 87,093 | 80,078 | 79,294 | 79,015 | 38,546 | 5,078 | 25,642 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,699 | 6,124 | 6,102 | 2,073 | 284 | 321 |
| 5,001 to 10,000 | 8,900 | 7,590 | 7,304 | 7,236 | 2,733 | 542 | 596 |
| 10,001 to 25,000 | 14,105 | 12,744 | 12,357 | 12,401 | 4,134 | 855 | 1,008 |
| 25,001 to 50,000 | 11,917 | 10,911 | 10,813 | 11,007 | 3,858 | 1,022 | 2,032 |
| 50,001 to 100,000 | 13,918 | 13,114 | 13,069 | 13,063 | 6,870 | 761 | 4,139 |
| 100,001 to 200,000 | 12,415 | 11,941 | 12,152 | 11,903 | 6,587 | 691 | 5,050 |
| 200,001 to 500,000 | 10,724 | 10,348 | 10,518 | 10,351 | 6,969 | 665 | 6,665 |
| Over 500,000 | 7,074 | 6,730 | 6,958 | 6,951 | 5,322 | Q | 5,830 |
| **Principal building activity** | | | | | | | |
| Education | 12,239 | 12,099 | 11,811 | 11,905 | 8,479 | Q | 4,126 |
| Food sales | 1,252 | 1,196 | 1,190 | 1,252 | 943 | Q | 394 |
| Food service | 1,819 | 1,762 | 1,712 | 1,817 | 1,738 | Q | Q |
| Health care | 4,155 | 4,109 | 4,148 | 4,153 | 2,649 | Q | 2,954 |
| Inpatient | 2,374 | 2,354 | 2,374 | 2,374 | 2,230 | Q | 2,266 |
| Outpatient | 1,781 | 1,754 | 1,774 | 1,779 | 419 | Q | 688 |
| Lodging | 5,826 | 5,696 | 5,700 | 5,821 | 4,293 | Q | 2,781 |
| Mercantile | 11,330 | 10,794 | 11,121 | 10,960 | 6,396 | 529 | 2,281 |
| Retail (other than mall) | 5,439 | 5,088 | 5,230 | 5,070 | 1,773 | Q | 877 |
| Enclosed and strip malls | 5,890 | 5,706 | 5,890 | 5,890 | 4,623 | Q | 1,404 |
| Office | 15,952 | 15,753 | 15,882 | 15,663 | 5,230 | 684 | 6,027 |
| Public assembly | 5,559 | 5,323 | 5,235 | 5,318 | 2,751 | Q | 1,878 |
| Public order and safety | 1,440 | 1,391 | 1,384 | 1,341 | 912 | N | 1,185 |
| Religious worship | 4,557 | 4,511 | 4,271 | 4,337 | 3,394 | Q | Q |
| Service | 4,630 | 4,157 | 3,773 | 3,763 | 517 | 465 | 422 |
| Warehouse and storage | 13,077 | 9,987 | 10,120 | 10,041 | 922 | 1,996 | 2,326 |
| Other | 2,002 | 1,886 | 1,820 | 1,614 | Q | 951 | 688 |
| Vacant | 3,256 | 1,415 | 1,125 | 1,031 | Q | Q | Q |
| **Year constructed** | | | | | | | |
| Before 1920 | 3,983 | 3,583 | 3,087 | 3,403 | 1,493 | 403 | 554 |
| 1920 to 1945 | 6,025 | 5,527 | 5,215 | 5,299 | 2,711 | Q | 1,252 |
| 1946 to 1959 | 7,381 | 6,895 | 6,679 | 6,410 | 3,409 | 575 | 1,523 |
| 1960 to 1969 | 10,362 | 9,730 | 9,634 | 9,699 | 4,644 | 497 | 3,083 |
| 1970 to 1979 | 10,846 | 10,045 | 10,031 | 10,158 | 4,837 | 828 | 3,145 |
| 1980 to 1989 | 15,230 | 13,723 | 14,011 | 13,831 | 6,545 | 969 | 4,690 |
| 1990 to 1999 | 13,803 | 12,389 | 12,402 | 12,209 | 6,517 | 396 | 4,184 |
| 2000 to 2003 | 7,215 | 6,707 | 6,939 | 6,889 | 2,874 | 470 | 2,705 |
| 2004 to 2007 | 6,524 | 5,972 | 6,071 | 5,955 | 3,140 | 386 | 2,236 |
| 2008 to 2012 | 5,723 | 5,505 | 5,225 | 5,162 | 2,375 | Q | 2,269 |

## Table B25. Energy end uses, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 87,093 | 80,078 | 79,294 | 79,015 | 38,546 | 5,078 | 25,642 |
| **Census region and division** | | | | | | | |
| Northeast | 15,534 | 15,053 | 13,949 | 14,633 | 8,177 | 1,059 | 6,223 |
| New England | 4,302 | 4,090 | 3,482 | 3,915 | 2,053 | 391 | 1,456 |
| Middle Atlantic | 11,232 | 10,963 | 10,467 | 10,718 | 6,124 | 669 | 4,767 |
| Midwest | 18,919 | 18,055 | 17,144 | 17,592 | 8,726 | 1,172 | 5,358 |
| East North Central | 12,742 | 12,240 | 11,675 | 12,082 | 6,175 | 807 | 3,912 |
| West North Central | 6,178 | 5,815 | 5,469 | 5,510 | 2,551 | 365 | 1,445 |
| South | 34,279 | 30,499 | 31,734 | 30,261 | 14,381 | 1,708 | 9,377 |
| South Atlantic | 17,981 | 15,883 | 17,094 | 16,144 | 7,925 | 821 | 5,901 |
| East South Central | 4,904 | 4,692 | 4,710 | 4,598 | 2,255 | Q | 1,075 |
| West South Central | 11,394 | 9,923 | 9,931 | 9,519 | 4,201 | 705 | 2,401 |
| West | 18,360 | 16,471 | 16,467 | 16,529 | 7,262 | 1,139 | 4,683 |
| Mountain | 4,981 | 4,704 | 4,489 | 4,440 | 2,420 | Q | 1,635 |
| Pacific | 13,379 | 11,767 | 11,978 | 12,089 | 4,842 | 999 | 3,049 |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 31,898 | 30,469 | 28,228 | 29,567 | 14,975 | 2,133 | 10,597 |
| Mixed-humid | 27,873 | 26,716 | 26,365 | 25,772 | 13,469 | 1,273 | 8,525 |
| Mixed-dry/Hot-dry | 12,037 | 10,484 | 10,887 | 10,585 | 4,029 | 786 | 2,471 |
| Hot-humid | 12,831 | 10,090 | 11,624 | 10,837 | 5,098 | 684 | 3,168 |
| Marine | 2,454 | 2,319 | 2,190 | 2,255 | 975 | Q | 880 |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 17,751 | 12,931 | 11,595 | 11,783 | 4,138 | 556 | 1,002 |
| 5 to 9 | 8,973 | 8,492 | 8,238 | 8,205 | 2,501 | 519 | 857 |
| 10 to 19 | 9,623 | 8,970 | 9,190 | 9,137 | 3,203 | 787 | 1,058 |
| 20 to 49 | 14,514 | 14,126 | 14,219 | 14,097 | 6,481 | 1,231 | 2,923 |
| 50 to 99 | 13,476 | 13,184 | 13,323 | 13,171 | 7,501 | 965 | 4,761 |
| 100 to 249 | 10,941 | 10,805 | 10,913 | 10,912 | 6,181 | 508 | 6,177 |
| 250 or more | 11,815 | 11,570 | 11,815 | 11,711 | 8,540 | 512 | 8,863 |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 8,220 | 5,763 | 5,083 | 5,137 | 2,921 | Q | 399 |
| 40 to 48 | 15,828 | 14,867 | 14,512 | 14,388 | 4,974 | 1,449 | 2,971 |
| 49 to 60 | 20,529 | 19,365 | 19,297 | 18,878 | 6,900 | 1,867 | 5,055 |
| 61 to 84 | 15,867 | 15,148 | 15,170 | 15,304 | 8,122 | 939 | 4,185 |
| 85 to 167 | 9,395 | 8,711 | 8,864 | 8,937 | 4,615 | 421 | 3,329 |
| Open continuously | 17,253 | 16,224 | 16,368 | 16,371 | 11,014 | 351 | 9,703 |

## Table B25. Energy end uses, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 87,093 | 80,078 | 79,294 | 79,015 | 38,546 | 5,078 | 25,642 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 67,550 | 61,341 | 60,960 | 60,645 | 26,909 | 4,745 | 17,555 |
| Owner occupied | 30,637 | 28,745 | 28,174 | 27,869 | 13,400 | 2,024 | 8,079 |
| Leased to tenant(s) | 26,115 | 23,766 | 23,907 | 23,900 | 9,378 | 2,107 | 5,917 |
| Owner occupied and leased | 8,873 | 8,328 | 8,602 | 8,544 | 4,115 | 614 | 3,502 |
| Unoccupied | 1,925 | 502 | 278 | 332 | Q | N | Q |
| Government owned | 19,543 | 18,736 | 18,334 | 18,370 | 11,637 | 333 | 8,086 |
| Federal | 1,573 | 1,557 | 1,573 | 1,565 | 933 | Q | 1,122 |
| State | 5,539 | 5,411 | 5,252 | 5,270 | 2,538 | Q | 1,829 |
| Local | 12,431 | 11,768 | 11,508 | 11,535 | 8,166 | Q | 5,136 |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 84,869 | 80,053 | 79,294 | 79,015 | 38,546 | 5,078 | 25,642 |
| Natural gas | 58,725 | 58,129 | 56,899 | 57,019 | 31,026 | 3,740 | 20,271 |
| Fuel oil | 20,200 | 19,670 | 19,309 | 19,708 | 12,694 | 863 | 17,073 |
| District heat | 5,964 | 5,962 | 5,903 | 5,822 | 3,154 | Q | 3,749 |
| District chilled water | 4,608 | 4,561 | 4,608 | 4,511 | 2,084 | Q | 2,731 |
| Propane | 7,706 | 7,332 | 7,061 | 7,383 | 4,209 | 809 | 3,380 |
| Other | 3,826 | 3,826 | 3,573 | 3,679 | 2,076 | Q | 2,881 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 80,078 | 80,078 | 76,834 | 76,584 | 37,771 | 4,790 | 25,155 |
| Buildings with cooling | 79,294 | 76,834 | 79,294 | 76,414 | 37,687 | 4,682 | 25,350 |
| Buildings with water heating | 79,015 | 76,584 | 76,414 | 79,015 | 38,389 | 4,570 | 25,280 |
| Buildings with cooking | 38,546 | 37,771 | 37,687 | 38,389 | 38,546 | 1,300 | 16,803 |
| Buildings with manufacturing | 5,078 | 4,790 | 4,682 | 4,570 | 1,300 | 5,078 | 889 |
| Buildings with electricity generation | 25,642 | 25,155 | 25,350 | 25,280 | 16,803 | 889 | 25,642 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | |
| Snack bar or concession stand | 9,884 | 9,564 | 9,819 | 9,864 | 9,884 | Q | 6,316 |
| Fast food or small restaurant | 9,787 | 9,479 | 9,771 | 9,778 | 9,787 | Q | 4,977 |
| Cafeteria or large restaurant | 15,222 | 15,000 | 15,046 | 15,219 | 15,222 | Q | 9,066 |
| Commercial kitchen/ food preparation area | 16,150 | 15,857 | 15,968 | 16,150 | 16,150 | 504 | 9,181 |
| Small kitchen area | 14,054 | 13,624 | 13,601 | 13,926 | 14,054 | 660 | 5,837 |
| **Separate computer areas (more than one may apply)** | | | | | | | |
| Data center or server farm | 11,105 | 10,939 | 11,093 | 11,013 | 6,849 | 462 | 8,337 |
| Computer-based training room | 17,723 | 17,336 | 17,589 | 17,659 | 12,340 | 556 | 9,480 |
| Student or public computer center | 14,341 | 14,205 | 14,090 | 14,268 | 10,945 | Q | 6,480 |

## Table B25. Energy end uses, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Energy used for (more than one may apply) | | | | | |
| | All buildings | Space heating | Cooling | Water heating | Cooking | Manu-facturing | Electricity gener-ation |
| **All buildings** | 87,093 | 80,078 | 79,294 | 79,015 | 38,546 | 5,078 | 25,642 |

[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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B26. Space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 5,557 | 4,722 | 2,858 | 2,612 | 270 | 48 | 342 | 101 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,257 | 1,379 | 1,115 | 148 | Q | 180 | 48 |
| 5,001 to 10,000 | 1,229 | 1,046 | 606 | 595 | 49 | Q | 96 | 29 |
| 10,001 to 25,000 | 884 | 797 | 482 | 494 | 42 | Q | 51 | Q |
| 25,001 to 50,000 | 332 | 304 | 189 | 203 | 15 | 6 | 9 | Q |
| 50,001 to 100,000 | 199 | 187 | 123 | 121 | 9 | 10 | Q | Q |
| 100,001 to 200,000 | 90 | 86 | 54 | 54 | 4 | 9 | Q | Q |
| 200,001 to 500,000 | 38 | 36 | 21 | 25 | 2 | 5 | Q | Q |
| Over 500,000 | 8 | 8 | 4 | 4 | (*) | 2 | Q | Q |
| **Principal building activity** | | | | | | | | |
| Education | 389 | 379 | 214 | 203 | 21 | 12 | 16 | Q |
| Food sales | 177 | 160 | 123 | 63 | Q | N | Q | Q |
| Food service | 380 | 359 | 202 | 207 | Q | Q | 25 | Q |
| Health care | 157 | 153 | 92 | 85 | 6 | 2 | Q | Q |
| Inpatient | 10 | 9 | 4 | 5 | 2 | 1 | Q | Q |
| Outpatient | 147 | 144 | 87 | 80 | Q | Q | Q | Q |
| Lodging | 158 | 153 | 116 | 64 | Q | 4 | Q | Q |
| Mercantile | 602 | 572 | 387 | 324 | 35 | Q | 35 | Q |
| Retail (other than mall) | 438 | 412 | 250 | 216 | 32 | Q | 33 | Q |
| Enclosed and strip malls | 164 | 160 | 137 | 107 | Q | Q | Q | Q |
| Office | 1,012 | 989 | 653 | 554 | 42 | 12 | 27 | Q |
| Public assembly | 352 | 330 | 162 | 187 | Q | 7 | 46 | Q |
| Public order and safety | 84 | 81 | 44 | 47 | Q | Q | Q | Q |
| Religious worship | 412 | 408 | 231 | 217 | Q | N | 63 | Q |
| Service | 619 | 528 | 270 | 329 | 70 | Q | 54 | 39 |
| Warehouse and storage | 796 | 420 | 264 | 235 | Q | Q | 26 | Q |
| Other | 125 | 100 | 53 | 56 | Q | Q | Q | Q |
| Vacant | 296 | 87 | 47 | 40 | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | |
| Before 1920 | 362 | 322 | 167 | 189 | 45 | 5 | 35 | Q |
| 1920 to 1945 | 488 | 413 | 190 | 263 | 33 | 7 | Q | Q |
| 1946 to 1959 | 599 | 517 | 320 | 310 | 39 | 5 | 32 | Q |
| 1960 to 1969 | 639 | 559 | 308 | 357 | 52 | 9 | 27 | Q |
| 1970 to 1979 | 684 | 599 | 370 | 353 | 21 | 10 | 48 | Q |
| 1980 to 1989 | 915 | 754 | 513 | 383 | 19 | 2 | 36 | Q |
| 1990 to 1999 | 845 | 675 | 398 | 352 | 23 | 3 | 59 | Q |
| 2000 to 2003 | 375 | 322 | 202 | 153 | 21 | 4 | 33 | Q |
| 2004 to 2007 | 347 | 291 | 210 | 126 | Q | 2 | 25 | Q |
| 2008 to 2012 | 303 | 270 | 182 | 126 | Q | Q | Q | Q |

## Table B26. Space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 5,557 | 4,722 | 2,858 | 2,612 | 270 | 48 | 342 | 101 |
| **Census region and division** | | | | | | | | |
| Northeast | 805 | 727 | 310 | 392 | 170 | 16 | 59 | Q |
| New England | 302 | 264 | 99 | 82 | 105 | Q | 38 | Q |
| Middle Atlantic | 504 | 463 | 211 | 310 | 65 | 9 | 21 | Q |
| Midwest | 1,237 | 1,096 | 493 | 819 | 39 | 7 | 105 | 32 |
| East North Central | 735 | 670 | 282 | 559 | 20 | 3 | 29 | Q |
| West North Central | 502 | 426 | 211 | 260 | 19 | 4 | 76 | Q |
| South | 2,247 | 1,842 | 1,380 | 782 | 53 | 18 | 124 | Q |
| South Atlantic | 1,091 | 873 | 704 | 299 | 29 | 9 | 58 | Q |
| East South Central | 370 | 336 | 239 | 168 | Q | Q | 35 | Q |
| West South Central | 786 | 633 | 437 | 316 | Q | 5 | Q | Q |
| West | 1,267 | 1,057 | 676 | 618 | Q | 7 | 54 | Q |
| Mountain | 338 | 293 | 165 | 202 | Q | Q | 24 | Q |
| Pacific | 929 | 764 | 511 | 416 | Q | 5 | Q | Q |
| **Climate region[2]** | | | | | | | | |
| Very cold/Cold | 2,031 | 1,792 | 814 | 1,198 | 192 | 18 | 156 | 75 |
| Mixed-humid | 1,743 | 1,545 | 1,009 | 826 | 70 | 20 | 135 | Q |
| Mixed-dry/Hot-dry | 837 | 676 | 445 | 361 | Q | 4 | 39 | Q |
| Hot-humid | 799 | 593 | 521 | 142 | Q | Q | Q | N |
| Marine | 147 | 116 | 69 | 84 | Q | Q | Q | Q |
| **Number of workers (main shift)** | | | | | | | | |
| Fewer than 5 | 2,892 | 2,184 | 1,217 | 1,126 | 171 | Q | 218 | 63 |
| 5 to 9 | 1,085 | 1,020 | 658 | 527 | 43 | Q | 55 | Q |
| 10 to 19 | 731 | 692 | 425 | 434 | 22 | Q | 40 | Q |
| 20 to 49 | 513 | 494 | 341 | 306 | 16 | 11 | 23 | Q |
| 50 to 99 | 206 | 203 | 141 | 134 | 11 | 7 | Q | Q |
| 100 to 249 | 93 | 92 | 54 | 64 | 5 | 7 | Q | Q |
| 250 or more | 37 | 37 | 22 | 21 | 2 | 6 | Q | Q |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 1,149 | 815 | 448 | 416 | 45 | Q | 113 | Q |
| 40 to 48 | 1,346 | 1,230 | 751 | 674 | 87 | 7 | 72 | Q |
| 49 to 60 | 1,244 | 1,143 | 694 | 687 | 65 | 11 | 72 | 45 |
| 61 to 84 | 764 | 672 | 421 | 387 | 30 | 9 | 26 | Q |
| 85 to 167 | 479 | 414 | 258 | 232 | Q | 6 | 19 | Q |
| Open continuously | 575 | 448 | 287 | 217 | 28 | 11 | 39 | Q |

## Table B26. Space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 5,557 | 4,722 | 2,858 | 2,612 | 270 | 48 | 342 | 101 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 4,781 | 4,028 | 2,464 | 2,203 | 234 | 22 | 290 | 96 |
| Owner occupied | 2,466 | 2,198 | 1,264 | 1,162 | 145 | 13 | 202 | 72 |
| Leased to tenant(s) | 1,745 | 1,458 | 958 | 838 | 69 | Q | 67 | Q |
| Owner occupied and leased | 349 | 325 | 221 | 181 | 15 | 2 | 19 | Q |
| Unoccupied | 221 | 47 | 22 | 22 | Q | Q | Q | N |
| Government owned | 776 | 694 | 394 | 409 | 36 | 26 | 52 | Q |
| Federal | 33 | 33 | 19 | 18 | Q | 1 | Q | Q |
| State | 185 | 168 | 100 | 91 | Q | 18 | Q | Q |
| Local | 558 | 493 | 275 | 300 | 32 | 7 | 38 | Q |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 5,234 | 4,717 | 2,858 | 2,612 | 270 | 48 | 340 | 96 |
| Natural gas | 2,933 | 2,888 | 1,371 | 2,612 | 40 | 17 | 24 | 34 |
| Fuel oil | 467 | 455 | 211 | 133 | 270 | 10 | 45 | 25 |
| District heat | 48 | 48 | 12 | 2 | Q | 48 | Q | Q |
| District chilled water | 54 | 51 | 27 | 10 | Q | 26 | Q | Q |
| Propane | 510 | 491 | 268 | 59 | 60 | Q | 342 | Q |
| Other | 172 | 172 | 72 | 66 | 30 | 1 | Q | 101 |
| **Primary space-heating energy source** | | | | | | | | |
| Electricity | 1,819 | 1,819 | 1,819 | 262 | 24 | Q | 49 | Q |
| Natural gas | 2,322 | 2,322 | 846 | 2,322 | 17 | Q | 11 | Q |
| Fuel oil | 205 | 205 | 57 | Q | 205 | Q | Q | Q |
| District heat | 47 | 47 | 12 | 2 | Q | 47 | N | Q |
| Propane | 261 | 261 | 110 | Q | Q | N | 261 | Q |
| Other | 67 | 67 | Q | Q | Q | N | Q | 67 |
| **Cooling energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 4,413 | 4,226 | 2,677 | 2,390 | 177 | 23 | 275 | 62 |
| Natural gas | 12 | 12 | 5 | 12 | Q | Q | N | N |
| District chilled water | 54 | 51 | 27 | 10 | Q | 26 | Q | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 2,658 | 2,512 | 1,819 | 1,051 | 144 | 16 | 193 | 37 |
| Natural gas | 1,758 | 1,722 | 816 | 1,540 | 18 | 9 | 11 | 18 |
| Fuel oil | 77 | 76 | 23 | 6 | 67 | Q | Q | Q |
| District heat | 25 | 25 | 6 | Q | Q | 25 | N | Q |
| Propane | 142 | 133 | 77 | Q | Q | Q | 110 | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 1,010 | 969 | 633 | 513 | 44 | 10 | 91 | 17 |
| Natural gas | 740 | 717 | 412 | 579 | 18 | 8 | Q | Q |
| Propane | 144 | 132 | 75 | Q | 20 | Q | 67 | Q |

## Table B26. Space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 5,557 | 4,722 | 2,858 | 2,612 | 270 | 48 | 342 | 101 |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 4,722 | 4,722 | 2,858 | 2,612 | 270 | 48 | 342 | 101 |
| Buildings with cooling | 4,461 | 4,272 | 2,699 | 2,402 | 177 | 44 | 275 | 62 |
| Buildings with water heating | 4,423 | 4,237 | 2,569 | 2,424 | 222 | 45 | 307 | 71 |
| Buildings with cooking | 1,589 | 1,525 | 938 | 890 | 73 | 14 | 137 | 25 |
| Buildings with manufacturing | 259 | 234 | 145 | 141 | Q | Q | Q | Q |
| Buildings with electricity generation | 410 | 400 | 239 | 225 | 36 | 15 | 37 | Q |
| **Percent of floorspace heated** | | | | | | | | |
| Not heated | 835 | N | N | N | N | N | N | N |
| 1 to 50 | 697 | 697 | 484 | 285 | 47 | Q | 59 | Q |
| 51 to 99 | 727 | 727 | 463 | 420 | 36 | 7 | 55 | Q |
| 100 | 3,298 | 3,298 | 1,911 | 1,907 | 187 | 40 | 228 | 66 |
| **Heating equipment (more than one may apply)** | | | | | | | | |
| Heat pumps | 628 | 628 | 611 | 188 | 18 | 3 | 26 | Q |
| Furnaces | 755 | 755 | 366 | 530 | 20 | Q | 72 | Q |
| Individual space heaters | 1,247 | 1,247 | 868 | 722 | 118 | 9 | 146 | 72 |
| District heat | 48 | 48 | 12 | 2 | Q | 48 | Q | Q |
| Boilers | 544 | 544 | 225 | 390 | 85 | Q | 31 | Q |
| Packaged heating units | 2,802 | 2,802 | 1,785 | 1,717 | 116 | 3 | 181 | 30 |
| Other | 62 | 62 | 46 | 34 | Q | Q | Q | Q |

[1]*Other* includes wood, coal, solar, and all other energy sources. The most commonly used other energy sources was waste oil.

[2]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).

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B27. Space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 87,093 | 80,078 | 49,030 | 49,511 | 4,351 | 5,925 | 3,067 | 1,010 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,699 | 4,185 | 3,323 | 412 | Q | 538 | 129 |
| 5,001 to 10,000 | 8,900 | 7,590 | 4,384 | 4,343 | 366 | Q | 682 | 213 |
| 10,001 to 25,000 | 14,105 | 12,744 | 7,716 | 7,989 | 725 | Q | 767 | Q |
| 25,001 to 50,000 | 11,917 | 10,911 | 6,897 | 7,228 | 576 | 213 | 329 | Q |
| 50,001 to 100,000 | 13,918 | 13,114 | 8,668 | 8,524 | 698 | 704 | Q | Q |
| 100,001 to 200,000 | 12,415 | 11,941 | 7,321 | 7,507 | 548 | 1,313 | Q | Q |
| 200,001 to 500,000 | 10,724 | 10,348 | 5,991 | 6,990 | 632 | 1,553 | Q | Q |
| Over 500,000 | 7,074 | 6,730 | 3,869 | 3,608 | 394 | 1,974 | Q | Q |
| **Principal building activity** | | | | | | | | |
| Education | 12,239 | 12,099 | 6,254 | 7,967 | 1,074 | 1,155 | 307 | Q |
| Food sales | 1,252 | 1,196 | 883 | 667 | Q | N | Q | Q |
| Food service | 1,819 | 1,762 | 1,017 | 1,023 | Q | Q | 124 | Q |
| Health care | 4,155 | 4,109 | 2,083 | 2,616 | 502 | 671 | Q | Q |
| Inpatient | 2,374 | 2,354 | 1,008 | 1,627 | 430 | 563 | Q | Q |
| Outpatient | 1,781 | 1,754 | 1,076 | 989 | Q | Q | Q | Q |
| Lodging | 5,826 | 5,696 | 3,878 | 3,153 | Q | 621 | Q | Q |
| Mercantile | 11,330 | 10,794 | 8,132 | 7,435 | 306 | Q | 386 | Q |
| Retail (other than mall) | 5,439 | 5,088 | 3,041 | 3,050 | 256 | Q | 306 | Q |
| Enclosed and strip malls | 5,890 | 5,706 | 5,091 | 4,385 | Q | Q | Q | Q |
| Office | 15,952 | 15,753 | 10,281 | 8,555 | 560 | 1,794 | 209 | Q |
| Public assembly | 5,559 | 5,323 | 2,645 | 3,337 | Q | 888 | 306 | Q |
| Public order and safety | 1,440 | 1,391 | 643 | 851 | Q | Q | Q | Q |
| Religious worship | 4,557 | 4,511 | 2,656 | 2,671 | Q | N | 366 | Q |
| Service | 4,630 | 4,157 | 2,193 | 2,758 | 393 | Q | 432 | 370 |
| Warehouse and storage | 13,077 | 9,987 | 6,476 | 6,499 | Q | Q | 293 | Q |
| Other | 2,002 | 1,886 | 1,185 | 1,218 | Q | Q | Q | Q |
| Vacant | 3,256 | 1,415 | 702 | 760 | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | |
| Before 1920 | 3,983 | 3,583 | 1,867 | 1,970 | 622 | 523 | 164 | Q |
| 1920 to 1945 | 6,025 | 5,527 | 2,744 | 3,202 | 551 | 888 | Q | Q |
| 1946 to 1959 | 7,381 | 6,895 | 3,836 | 4,908 | 616 | 446 | 203 | Q |
| 1960 to 1969 | 10,362 | 9,730 | 5,387 | 6,574 | 695 | 1,002 | 388 | Q |
| 1970 to 1979 | 10,846 | 10,045 | 5,931 | 6,549 | 590 | 930 | 425 | Q |
| 1980 to 1989 | 15,230 | 13,723 | 9,378 | 7,995 | 421 | 446 | 330 | Q |
| 1990 to 1999 | 13,803 | 12,389 | 7,947 | 7,613 | 370 | 642 | 539 | Q |
| 2000 to 2003 | 7,215 | 6,707 | 4,181 | 3,758 | 203 | Q | 347 | Q |
| 2004 to 2007 | 6,524 | 5,972 | 4,077 | 3,454 | Q | Q | 306 | Q |
| 2008 to 2012 | 5,723 | 5,505 | 3,683 | 3,488 | Q | Q | Q | Q |

## Table B27. Space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 87,093 | 80,078 | 49,030 | 49,511 | 4,351 | 5,925 | 3,067 | 1,010 |
| **Census region and division** | | | | | | | | |
| Northeast | 15,534 | 15,053 | 7,276 | 9,352 | 2,851 | 1,981 | 653 | 206 |
| New England | 4,302 | 4,090 | 1,848 | 1,990 | 1,270 | Q | 314 | Q |
| Middle Atlantic | 11,232 | 10,963 | 5,428 | 7,362 | 1,581 | 1,628 | 339 | Q |
| Midwest | 18,919 | 18,055 | 8,638 | 14,031 | 667 | 906 | 1,003 | 301 |
| East North Central | 12,742 | 12,240 | 5,687 | 10,122 | 292 | 574 | 280 | Q |
| West North Central | 6,178 | 5,815 | 2,951 | 3,909 | 375 | 332 | 723 | Q |
| South | 34,279 | 30,499 | 22,558 | 15,438 | 765 | 2,171 | 927 | Q |
| South Atlantic | 17,981 | 15,883 | 12,514 | 7,309 | 458 | 1,148 | 498 | Q |
| East South Central | 4,904 | 4,692 | 3,170 | 2,662 | Q | Q | 218 | Q |
| West South Central | 11,394 | 9,923 | 6,874 | 5,467 | Q | 637 | Q | Q |
| West | 18,360 | 16,471 | 10,559 | 10,690 | Q | 867 | 484 | Q |
| Mountain | 4,981 | 4,704 | 2,791 | 3,180 | Q | 482 | 141 | Q |
| Pacific | 13,379 | 11,767 | 7,768 | 7,509 | Q | 385 | 343 | Q |
| **Climate region[2]** | | | | | | | | |
| Very cold/Cold | 31,898 | 30,469 | 15,252 | 22,436 | 2,375 | 1,926 | 1,520 | 677 |
| Mixed-humid | 27,873 | 26,716 | 17,288 | 15,774 | 1,721 | 3,002 | 1,056 | Q |
| Mixed-dry/Hot-dry | 12,037 | 10,484 | 6,815 | 6,268 | Q | Q | 389 | Q |
| Hot-humid | 12,831 | 10,090 | 8,300 | 3,316 | Q | 362 | Q | N |
| Marine | 2,454 | 2,319 | 1,374 | 1,717 | Q | Q | Q | Q |
| **Number of workers (main shift)** | | | | | | | | |
| Fewer than 5 | 17,751 | 12,931 | 6,806 | 7,144 | 998 | Q | 1,222 | 284 |
| 5 to 9 | 8,973 | 8,492 | 5,390 | 4,655 | 348 | Q | 465 | Q |
| 10 to 19 | 9,623 | 8,970 | 5,488 | 5,914 | 311 | Q | 390 | Q |
| 20 to 49 | 14,514 | 14,126 | 9,380 | 9,275 | 555 | 623 | 388 | Q |
| 50 to 99 | 13,476 | 13,184 | 8,881 | 8,947 | 786 | 669 | Q | Q |
| 100 to 249 | 10,941 | 10,805 | 6,410 | 7,504 | 710 | 1,096 | Q | Q |
| 250 or more | 11,815 | 11,570 | 6,676 | 6,072 | 644 | 3,053 | Q | Q |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 8,220 | 5,763 | 2,920 | 3,370 | 339 | Q | 523 | Q |
| 40 to 48 | 15,828 | 14,867 | 9,120 | 8,966 | 1,006 | 403 | 502 | Q |
| 49 to 60 | 20,529 | 19,365 | 11,893 | 12,179 | 944 | 1,099 | 769 | 428 |
| 61 to 84 | 15,867 | 15,148 | 10,229 | 9,927 | 814 | 828 | 345 | Q |
| 85 to 167 | 9,395 | 8,711 | 4,995 | 5,964 | Q | 631 | 359 | Q |
| Open continuously | 17,253 | 16,224 | 9,873 | 9,106 | 988 | 2,792 | 569 | Q |

## Table B27. Space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 87,093 | 80,078 | 49,030 | 49,511 | 4,351 | 5,925 | 3,067 | 1,010 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 67,550 | 61,341 | 39,210 | 37,495 | 2,844 | 3,119 | 2,429 | 834 |
| Owner occupied | 30,637 | 28,745 | 16,986 | 16,788 | 1,691 | 1,825 | 1,638 | 523 |
| Leased to tenant(s) | 26,115 | 23,766 | 16,368 | 15,108 | 734 | 730 | 497 | Q |
| Owner occupied and leased | 8,873 | 8,328 | 5,641 | 5,282 | 392 | 557 | 285 | Q |
| Unoccupied | 1,925 | 502 | 214 | 317 | Q | Q | Q | N |
| Government owned | 19,543 | 18,736 | 9,821 | 12,016 | 1,507 | 2,807 | 638 | Q |
| Federal | 1,573 | 1,557 | 798 | 657 | Q | 697 | Q | Q |
| State | 5,539 | 5,411 | 2,730 | 3,069 | Q | 1,526 | Q | Q |
| Local | 12,431 | 11,768 | 6,293 | 8,290 | 1,169 | 584 | 397 | Q |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 84,869 | 80,053 | 49,030 | 49,511 | 4,351 | 5,925 | 3,052 | 985 |
| Natural gas | 58,725 | 58,129 | 32,047 | 49,511 | 1,908 | 2,833 | 487 | 485 |
| Fuel oil | 20,200 | 19,670 | 10,619 | 10,235 | 4,351 | 3,088 | 787 | 261 |
| District heat | 5,964 | 5,962 | 1,895 | 361 | Q | 5,925 | Q | Q |
| District chilled water | 4,608 | 4,561 | 1,510 | 707 | Q | 3,718 | Q | Q |
| Propane | 7,706 | 7,332 | 4,182 | 2,701 | 1,257 | Q | 3,067 | Q |
| Other | 3,826 | 3,826 | 1,944 | 2,377 | 311 | 335 | Q | 1,010 |
| **Primary space-heating energy source** | | | | | | | | |
| Electricity | 26,205 | 26,205 | 26,205 | 5,856 | 421 | Q | 590 | Q |
| Natural gas | 42,988 | 42,988 | 19,376 | 42,988 | 1,122 | Q | 227 | Q |
| Fuel oil | 2,542 | 2,542 | 663 | Q | 2,542 | Q | Q | Q |
| District heat | 5,797 | 5,797 | 1,765 | 308 | Q | 5,797 | N | Q |
| Propane | 1,948 | 1,948 | 882 | Q | Q | N | 1,948 | Q |
| Other | 598 | 598 | Q | Q | Q | N | Q | 598 |
| **Cooling energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 76,034 | 73,613 | 47,155 | 47,299 | 3,656 | 3,399 | 2,685 | 812 |
| Natural gas | 732 | 732 | 220 | 714 | Q | Q | N | N |
| District chilled water | 4,608 | 4,561 | 1,510 | 707 | Q | 3,718 | Q | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 42,755 | 40,801 | 30,763 | 20,740 | 2,094 | 1,841 | 1,630 | 475 |
| Natural gas | 39,523 | 39,083 | 21,539 | 34,731 | 1,169 | 834 | 296 | 278 |
| Fuel oil | 1,911 | 1,805 | 618 | 506 | 1,617 | Q | Q | Q |
| District heat | 4,551 | 4,551 | 1,360 | 217 | Q | 4,515 | N | Q |
| Propane | 1,575 | 1,478 | 1,007 | Q | Q | Q | 1,201 | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 25,151 | 24,576 | 16,437 | 15,271 | 1,532 | 2,207 | 895 | 342 |
| Natural gas | 24,770 | 24,425 | 15,237 | 19,231 | 1,158 | 1,636 | Q | Q |
| Propane | 2,001 | 1,877 | 1,108 | Q | 555 | Q | 773 | Q |

## Table B27. Space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Space-heating energy sources used (more than one may apply) | | | | | |
| | All buildings | Buildings with space heating | Elec-tricity | Natural gas | Fuel oil | District heat | Propane | Other[1] |
| **All buildings** | 87,093 | 80,078 | 49,030 | 49,511 | 4,351 | 5,925 | 3,067 | 1,010 |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 80,078 | 80,078 | 49,030 | 49,511 | 4,351 | 5,925 | 3,067 | 1,010 |
| Buildings with cooling | 79,294 | 76,834 | 47,914 | 47,836 | 3,660 | 5,864 | 2,685 | 821 |
| Buildings with water heating | 79,015 | 76,584 | 46,987 | 47,816 | 4,139 | 5,783 | 2,889 | 881 |
| Buildings with cooking | 38,546 | 37,771 | 23,802 | 24,658 | 2,443 | 3,116 | 1,449 | 400 |
| Buildings with manufacturing | 5,078 | 4,790 | 3,256 | 3,397 | Q | Q | Q | Q |
| Buildings with electricity generation | 25,642 | 25,155 | 14,799 | 15,867 | 1,644 | 3,710 | 748 | Q |
| **Percent of floorspace heated** | | | | | | | | |
| Not heated | 7,015 | N | N | N | N | N | N | N |
| 1 to 50 | 10,130 | 10,130 | 6,797 | 4,940 | 751 | Q | 490 | Q |
| 51 to 99 | 14,650 | 14,650 | 9,640 | 9,298 | 606 | 1,126 | 659 | Q |
| 100 | 55,298 | 55,298 | 32,593 | 35,274 | 2,994 | 4,683 | 1,918 | 737 |
| **Heating equipment (more than one may apply)** | | | | | | | | |
| Heat pumps | 11,846 | 11,846 | 11,482 | 5,928 | 527 | 556 | 385 | Q |
| Furnaces | 8,654 | 8,654 | 5,040 | 6,837 | 183 | Q | 481 | Q |
| Individual space heaters | 20,766 | 20,766 | 16,235 | 13,893 | 1,648 | 1,334 | 1,217 | 590 |
| District heat | 5,925 | 5,925 | 1,869 | 350 | Q | 5,925 | Q | Q |
| Boilers | 22,443 | 22,443 | 10,721 | 18,893 | 2,556 | Q | 565 | Q |
| Packaged heating units | 49,188 | 49,188 | 35,389 | 32,966 | 1,746 | 725 | 1,963 | 411 |
| Other | 1,574 | 1,574 | 1,352 | 1,094 | Q | Q | Q | Q |

[1]*Other* includes wood, coal, solar, and all other energy sources.

[2]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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B28. Primary space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 5,557 | 4,722 | 1,819 | 2,322 | 205 | 47 |
| **Building floorspace (square feet)** | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,257 | 928 | 1,025 | 119 | Q |
| 5,001 to 10,000 | 1,229 | 1,046 | 398 | 520 | 37 | Q |
| 10,001 to 25,000 | 884 | 797 | 280 | 433 | 32 | Q |
| 25,001 to 50,000 | 332 | 304 | 106 | 174 | Q | 6 |
| 50,001 to 100,000 | 199 | 187 | 70 | 97 | 6 | 10 |
| 100,001 to 200,000 | 90 | 86 | 27 | 48 | 2 | 9 |
| 200,001 to 500,000 | 38 | 36 | 8 | 23 | Q | 5 |
| Over 500,000 | 8 | 8 | 2 | 4 | Q | 2 |
| **Principal building activity** | | | | | | |
| Education | 389 | 379 | 154 | 182 | 17 | 12 |
| Food sales | 177 | 160 | 88 | 56 | Q | N |
| Food service | 380 | 359 | 146 | 183 | Q | Q |
| Health care | 157 | 153 | 60 | 82 | 5 | 2 |
| Inpatient | 10 | 9 | Q | 5 | Q | 1 |
| Outpatient | 147 | 144 | 58 | 77 | Q | Q |
| Lodging | 158 | 153 | 93 | 45 | Q | 4 |
| Mercantile | 602 | 572 | 229 | 283 | Q | Q |
| Retail (other than mall) | 438 | 412 | 160 | 192 | Q | Q |
| Enclosed and strip malls | 164 | 160 | 68 | 91 | Q | Q |
| Office | 1,012 | 989 | 424 | 493 | 32 | 12 |
| Public assembly | 352 | 330 | 94 | 164 | Q | 7 |
| Public order and safety | 84 | 81 | Q | 45 | Q | Q |
| Religious worship | 412 | 408 | 132 | 199 | Q | N |
| Service | 619 | 528 | 127 | 290 | 48 | Q |
| Warehouse and storage | 796 | 420 | 180 | 213 | Q | Q |
| Other | 125 | 100 | 36 | 47 | Q | Q |
| Vacant | 296 | 87 | 38 | 39 | Q | Q |
| **Year constructed** | | | | | | |
| Before 1920 | 362 | 322 | 72 | 176 | 40 | 5 |
| 1920 to 1945 | 488 | 413 | 109 | 248 | 25 | 7 |
| 1946 to 1959 | 599 | 517 | 187 | 266 | 29 | 5 |
| 1960 to 1969 | 639 | 559 | 161 | 326 | 37 | 9 |
| 1970 to 1979 | 684 | 599 | 219 | 311 | Q | 10 |
| 1980 to 1989 | 915 | 754 | 363 | 336 | Q | 2 |
| 1990 to 1999 | 845 | 675 | 269 | 320 | 20 | 2 |
| 2000 to 2003 | 375 | 322 | 145 | 132 | Q | 4 |
| 2004 to 2007 | 347 | 291 | 161 | 105 | Q | 2 |
| 2008 to 2012 | 303 | 270 | 133 | 103 | Q | Q |

## Table B28. Primary space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 5,557 | 4,722 | 1,819 | 2,322 | 205 | 47 |
| **Census region and division** | | | | | | |
| Northeast | 805 | 727 | 138 | 361 | 141 | 15 |
| New England | 302 | 264 | 38 | 75 | 93 | Q |
| Middle Atlantic | 504 | 463 | 100 | 286 | 48 | 9 |
| Midwest | 1,237 | 1,096 | 193 | 768 | Q | 6 |
| East North Central | 735 | 670 | 90 | 530 | Q | 3 |
| West North Central | 502 | 426 | 102 | 238 | Q | 4 |
| South | 2,247 | 1,842 | 1,043 | 647 | 32 | 18 |
| South Atlantic | 1,091 | 873 | 557 | 239 | 21 | 8 |
| East South Central | 370 | 336 | 153 | 140 | Q | Q |
| West South Central | 786 | 633 | 334 | 268 | Q | 5 |
| West | 1,267 | 1,057 | 445 | 547 | Q | 7 |
| Mountain | 338 | 293 | 80 | 187 | Q | Q |
| Pacific | 929 | 764 | 365 | 360 | Q | 5 |
| **Climate region[2]** | | | | | | |
| Very cold/Cold | 2,031 | 1,792 | 338 | 1,102 | 155 | 17 |
| Mixed-humid | 1,743 | 1,545 | 651 | 709 | 51 | 20 |
| Mixed-dry/Hot-dry | 837 | 676 | 332 | 315 | N | 4 |
| Hot-humid | 799 | 593 | 466 | 114 | N | Q |
| Marine | 147 | 116 | Q | 82 | N | Q |
| **Number of workers (main shift)** | | | | | | |
| Fewer than 5 | 2,892 | 2,184 | 788 | 1,040 | 136 | Q |
| 5 to 9 | 1,085 | 1,020 | 467 | 451 | 33 | Q |
| 10 to 19 | 731 | 692 | 269 | 370 | Q | Q |
| 20 to 49 | 513 | 494 | 186 | 274 | Q | 11 |
| 50 to 99 | 206 | 203 | 74 | 112 | 7 | 7 |
| 100 to 249 | 93 | 92 | 24 | 58 | 2 | 7 |
| 250 or more | 37 | 37 | 11 | 18 | Q | 6 |
| **Weekly operating hours** | | | | | | |
| Fewer than 40 | 1,149 | 815 | 282 | 384 | 40 | Q |
| 40 to 48 | 1,346 | 1,230 | 472 | 613 | 64 | 7 |
| 49 to 60 | 1,244 | 1,143 | 425 | 593 | 43 | 11 |
| 61 to 84 | 764 | 672 | 263 | 348 | 25 | 8 |
| 85 to 167 | 479 | 414 | 176 | 200 | Q | 6 |
| Open continuously | 575 | 448 | 200 | 184 | 22 | 11 |

## Table B28. Primary space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 5,557 | 4,722 | 1,819 | 2,322 | 205 | 47 |
| **Ownership and occupancy** | | | | | | |
| Nongovernment owned | 4,781 | 4,028 | 1,600 | 1,944 | 176 | 21 |
| Owner occupied | 2,466 | 2,198 | 834 | 1,025 | 109 | 13 |
| Leased to tenant(s) | 1,745 | 1,458 | 611 | 735 | 52 | Q |
| Owner occupied and leased | 349 | 325 | 136 | 163 | Q | 2 |
| Unoccupied | 221 | 47 | Q | 21 | Q | Q |
| Government owned | 776 | 694 | 219 | 378 | 29 | 26 |
| Federal | 33 | 33 | Q | 17 | Q | 1 |
| State | 185 | 168 | 58 | 81 | Q | 18 |
| Local | 558 | 493 | 149 | 281 | 26 | 7 |
| **Energy sources (more than one may apply)** | | | | | | |
| Electricity | 5,234 | 4,717 | 1,819 | 2,322 | 205 | 47 |
| Natural gas | 2,933 | 2,888 | 509 | 2,322 | 15 | 17 |
| Fuel oil | 467 | 455 | 85 | 114 | 205 | 10 |
| District heat | 48 | 48 | Q | Q | Q | 47 |
| District chilled water | 54 | 51 | 20 | 6 | N | 26 |
| Propane | 510 | 491 | 122 | 45 | 47 | Q |
| Other | 172 | 172 | 33 | 47 | Q | 1 |
| **Energy end uses (more than one may apply)** | | | | | | |
| Buildings with space heating | 4,722 | 4,722 | 1,819 | 2,322 | 205 | 47 |
| Buildings with cooling | 4,461 | 4,272 | 1,728 | 2,126 | 135 | 43 |
| Buildings with water heating | 4,423 | 4,237 | 1,599 | 2,148 | 169 | 44 |
| Buildings with cooking | 1,589 | 1,525 | 558 | 774 | 58 | 13 |
| Buildings with manufacturing | 259 | 234 | 87 | 124 | Q | Q |
| Buildings with electricity generation | 410 | 400 | 131 | 199 | 25 | 15 |
| **Percent of floorspace heated** | | | | | | |
| Not heated | 835 | N | N | N | N | N |
| 1 to 50 | 697 | 697 | 369 | 244 | 31 | Q |
| 51 to 99 | 727 | 727 | 275 | 370 | 28 | 7 |
| 100 | 3,298 | 3,298 | 1,175 | 1,709 | 146 | 40 |
| **Heating equipment (more than one may apply)** | | | | | | |
| Heat pumps | 628 | 628 | 484 | 117 | Q | 2 |
| Furnaces | 755 | 755 | 191 | 485 | Q | Q |
| Individual space heaters | 1,247 | 1,247 | 392 | 622 | 81 | 8 |
| District heat | 48 | 48 | Q | Q | Q | 47 |
| Boilers | 544 | 544 | 83 | 355 | 71 | Q |
| Packaged heating units | 2,802 | 2,802 | 1,057 | 1,506 | 85 | 3 |
| Other | 62 | 62 | 14 | 27 | Q | Q |

## Table B28. Primary space-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 5,557 | 4,722 | 1,819 | 2,322 | 205 | 47 |

[1]Additionally, 261,000 buildings used propane and 67,000 buildings used wood, coal, or some other energy source for primary space heating.

[2]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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B29. Primary space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 87,093 | 80,078 | 26,205 | 42,988 | 2,542 | 5,797 |
| **Building floorspace (square feet)** | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,699 | 2,766 | 3,050 | 329 | Q |
| 5,001 to 10,000 | 8,900 | 7,590 | 2,865 | 3,802 | 280 | Q |
| 10,001 to 25,000 | 14,105 | 12,744 | 4,433 | 6,957 | 509 | Q |
| 25,001 to 50,000 | 11,917 | 10,911 | 3,871 | 6,174 | Q | 213 |
| 50,001 to 100,000 | 13,918 | 13,114 | 4,892 | 6,844 | 413 | 704 |
| 100,001 to 200,000 | 12,415 | 11,941 | 3,646 | 6,624 | 348 | 1,283 |
| 200,001 to 500,000 | 10,724 | 10,348 | 2,129 | 6,487 | Q | 1,472 |
| Over 500,000 | 7,074 | 6,730 | 1,603 | 3,050 | Q | 1,956 |
| **Principal building activity** | | | | | | |
| Education | 12,239 | 12,099 | 2,972 | 7,188 | 649 | 1,096 |
| Food sales | 1,252 | 1,196 | 461 | 630 | Q | N |
| Food service | 1,819 | 1,762 | 695 | 892 | Q | Q |
| Health care | 4,155 | 4,109 | 818 | 2,416 | 175 | 656 |
| Inpatient | 2,374 | 2,354 | 160 | 1,517 | Q | 550 |
| Outpatient | 1,781 | 1,754 | 658 | 900 | Q | Q |
| Lodging | 5,826 | 5,696 | 2,814 | 2,086 | Q | 594 |
| Mercantile | 11,330 | 10,794 | 3,901 | 6,337 | Q | Q |
| Retail (other than mall) | 5,439 | 5,088 | 1,820 | 2,736 | Q | Q |
| Enclosed and strip malls | 5,890 | 5,706 | 2,081 | 3,601 | Q | Q |
| Office | 15,952 | 15,753 | 6,053 | 7,445 | 296 | 1,772 |
| Public assembly | 5,559 | 5,323 | 1,184 | 2,820 | Q | 883 |
| Public order and safety | 1,440 | 1,391 | Q | 747 | Q | Q |
| Religious worship | 4,557 | 4,511 | 1,472 | 2,482 | Q | N |
| Service | 4,630 | 4,157 | 981 | 2,247 | 254 | Q |
| Warehouse and storage | 13,077 | 9,987 | 3,556 | 5,855 | Q | Q |
| Other | 2,002 | 1,886 | 522 | 1,155 | Q | Q |
| Vacant | 3,256 | 1,415 | 506 | 687 | Q | Q |
| **Year constructed** | | | | | | |
| Before 1920 | 3,983 | 3,583 | 574 | 1,795 | Q | 523 |
| 1920 to 1945 | 6,025 | 5,527 | 1,212 | 2,961 | 323 | 888 |
| 1946 to 1959 | 7,381 | 6,895 | 1,414 | 4,453 | 378 | 439 |
| 1960 to 1969 | 10,362 | 9,730 | 2,394 | 5,802 | 292 | 995 |
| 1970 to 1979 | 10,846 | 10,045 | 2,988 | 5,484 | Q | 930 |
| 1980 to 1989 | 15,230 | 13,723 | 5,760 | 6,868 | Q | 441 |
| 1990 to 1999 | 13,803 | 12,389 | 4,634 | 6,478 | 258 | 534 |
| 2000 to 2003 | 7,215 | 6,707 | 2,543 | 3,395 | Q | Q |
| 2004 to 2007 | 6,524 | 5,972 | 2,543 | 2,845 | Q | Q |
| 2008 to 2012 | 5,723 | 5,505 | 2,142 | 2,908 | Q | Q |

## Table B29. Primary space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 87,093 | 80,078 | 26,205 | 42,988 | 2,542 | 5,797 |
| **Census region and division** | | | | | | |
| Northeast | 15,534 | 15,053 | 2,188 | 8,366 | 1,988 | 1,954 |
| New England | 4,302 | 4,090 | 468 | 1,811 | 1,099 | Q |
| Middle Atlantic | 11,232 | 10,963 | 1,720 | 6,555 | 889 | 1,601 |
| Midwest | 18,919 | 18,055 | 2,982 | 13,084 | Q | 864 |
| East North Central | 12,742 | 12,240 | 1,702 | 9,587 | Q | 532 |
| West North Central | 6,178 | 5,815 | 1,281 | 3,497 | Q | 332 |
| South | 34,279 | 30,499 | 15,118 | 12,312 | 299 | 2,112 |
| South Atlantic | 17,981 | 15,883 | 8,533 | 5,694 | 245 | 1,089 |
| East South Central | 4,904 | 4,692 | 1,982 | 2,067 | Q | Q |
| West South Central | 11,394 | 9,923 | 4,604 | 4,551 | Q | 637 |
| West | 18,360 | 16,471 | 5,917 | 9,226 | Q | 867 |
| Mountain | 4,981 | 4,704 | 1,122 | 2,893 | Q | 482 |
| Pacific | 13,379 | 11,767 | 4,794 | 6,333 | Q | 385 |
| **Climate region[2]** | | | | | | |
| Very cold/Cold | 31,898 | 30,469 | 4,771 | 20,554 | 1,623 | 1,884 |
| Mixed-humid | 27,873 | 26,716 | 9,282 | 12,884 | 919 | 2,916 |
| Mixed-dry/Hot-dry | 12,037 | 10,484 | 4,600 | 5,252 | N | Q |
| Hot-humid | 12,831 | 10,090 | 6,969 | 2,710 | N | 362 |
| Marine | 2,454 | 2,319 | 583 | 1,588 | N | Q |
| **Number of workers (main shift)** | | | | | | |
| Fewer than 5 | 17,751 | 12,931 | 4,326 | 6,471 | 831 | Q |
| 5 to 9 | 8,973 | 8,492 | 3,673 | 3,941 | 185 | Q |
| 10 to 19 | 9,623 | 8,970 | 3,380 | 4,804 | Q | Q |
| 20 to 49 | 14,514 | 14,126 | 4,997 | 7,987 | Q | 623 |
| 50 to 99 | 13,476 | 13,184 | 4,367 | 7,604 | 488 | 610 |
| 100 to 249 | 10,941 | 10,805 | 2,446 | 6,863 | 316 | 1,091 |
| 250 or more | 11,815 | 11,570 | 3,015 | 5,317 | Q | 3,015 |
| **Weekly operating hours** | | | | | | |
| Fewer than 40 | 8,220 | 5,763 | 1,746 | 3,060 | 293 | Q |
| 40 to 48 | 15,828 | 14,867 | 5,065 | 8,184 | 755 | 381 |
| 49 to 60 | 20,529 | 19,365 | 6,696 | 10,341 | 472 | 1,099 |
| 61 to 84 | 15,867 | 15,148 | 5,020 | 8,585 | 512 | 769 |
| 85 to 167 | 9,395 | 8,711 | 2,280 | 5,455 | Q | 624 |
| Open continuously | 17,253 | 16,224 | 5,397 | 7,363 | 405 | 2,752 |

## Table B29. Primary space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 87,093 | 80,078 | 26,205 | 42,988 | 2,542 | 5,797 |
| **Ownership and occupancy** | | | | | | |
| Nongovernment owned | 67,550 | 61,341 | 22,225 | 32,258 | 1,658 | 3,076 |
| Owner occupied | 30,637 | 28,745 | 9,948 | 14,409 | 976 | 1,793 |
| Leased to tenant(s) | 26,115 | 23,766 | 9,250 | 12,976 | 426 | 730 |
| Owner occupied and leased | 8,873 | 8,328 | 2,842 | 4,592 | Q | 547 |
| Unoccupied | 1,925 | 502 | Q | 280 | Q | Q |
| Government owned | 19,543 | 18,736 | 3,980 | 10,730 | 884 | 2,721 |
| Federal | 1,573 | 1,557 | Q | 593 | Q | 697 |
| State | 5,539 | 5,411 | 983 | 2,717 | Q | 1,445 |
| Local | 12,431 | 11,768 | 2,785 | 7,420 | 656 | 579 |
| **Energy sources (more than one may apply)** | | | | | | |
| Electricity | 84,869 | 80,053 | 26,205 | 42,988 | 2,542 | 5,797 |
| Natural gas | 58,725 | 58,129 | 11,549 | 42,988 | 410 | 2,791 |
| Fuel oil | 20,200 | 19,670 | 4,651 | 9,022 | 2,542 | 2,991 |
| District heat | 5,964 | 5,962 | Q | Q | Q | 5,797 |
| District chilled water | 4,608 | 4,561 | 418 | 437 | N | 3,698 |
| Propane | 7,706 | 7,332 | 1,765 | 2,300 | 921 | Q |
| Other | 3,826 | 3,826 | 730 | 1,948 | Q | 276 |
| **Energy end uses (more than one may apply)** | | | | | | |
| Buildings with space heating | 80,078 | 80,078 | 26,205 | 42,988 | 2,542 | 5,797 |
| Buildings with cooling | 79,294 | 76,834 | 25,613 | 41,435 | 1,984 | 5,736 |
| Buildings with water heating | 79,015 | 76,584 | 24,862 | 41,377 | 2,362 | 5,655 |
| Buildings with cooking | 38,546 | 37,771 | 11,243 | 21,175 | 1,261 | 3,017 |
| Buildings with manufacturing | 5,078 | 4,790 | 1,456 | 2,969 | Q | Q |
| Buildings with electricity generation | 25,642 | 25,155 | 6,392 | 13,940 | 720 | 3,613 |
| **Percent of floorspace heated** | | | | | | |
| Not heated | 7,015 | N | N | N | N | N |
| 1 to 50 | 10,130 | 10,130 | 5,013 | 4,123 | Q | Q |
| 51 to 99 | 14,650 | 14,650 | 4,903 | 7,919 | 319 | 1,067 |
| 100 | 55,298 | 55,298 | 16,289 | 30,946 | 1,767 | 4,614 |
| **Heating equipment (more than one may apply)** | | | | | | |
| Heat pumps | 11,846 | 11,846 | 7,215 | 3,792 | Q | 464 |
| Furnaces | 8,654 | 8,654 | 2,270 | 5,778 | Q | Q |
| Individual space heaters | 20,766 | 20,766 | 6,035 | 11,482 | 1,008 | 1,271 |
| District heat | 5,925 | 5,925 | Q | Q | Q | 5,797 |
| Boilers | 22,443 | 22,443 | 2,982 | 17,437 | 1,504 | Q |
| Packaged heating units | 49,188 | 49,188 | 18,523 | 27,826 | 757 | 650 |
| Other | 1,574 | 1,574 | 447 | 873 | Q | Q |

## Table B29. Primary space-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | |
|---|---|---|---|---|---|---|
| | | | Primary space-heating energy source used[1] | | | |
| | All buildings | Buildings with space heating | Electricity | Natural gas | Fuel oil | District heat |
| **All buildings** | 87,093 | 80,078 | 26,205 | 42,988 | 2,542 | 5,797 |

[1]Additionally, buildings comprising 1,948 million square feet used propane and buildings comprising 598 million square feet used wood, coal, or some other energy source for primary space heating.

[2]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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

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## Table B30. Cooling energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling energy sources used (more than one may apply) | | | | | Cooling energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water |
| **All buildings** | 5,557 | 4,461 | 4,413 | 12 | 54 | 87,093 | 79,294 | 76,034 | 732 | 4,608 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,062 | 2,054 | Q | Q | 8,041 | 6,124 | 6,107 | Q | Q |
| 5,001 to 10,000 | 1,229 | 1,004 | 996 | Q | Q | 8,900 | 7,304 | 7,252 | Q | Q |
| 10,001 to 25,000 | 884 | 774 | 764 | Q | 9 | 14,105 | 12,357 | 12,211 | Q | 145 |
| 25,001 to 50,000 | 332 | 302 | 296 | Q | Q | 11,917 | 10,813 | 10,615 | Q | Q |
| 50,001 to 100,000 | 199 | 187 | 179 | Q | 10 | 13,918 | 13,069 | 12,618 | Q | 567 |
| 100,001 to 200,000 | 90 | 88 | 81 | Q | 9 | 12,415 | 12,152 | 11,034 | Q | 1,273 |
| 200,001 to 500,000 | 38 | 37 | 35 | Q | 4 | 10,724 | 10,518 | 9,887 | Q | 1,064 |
| Over 500,000 | 8 | 8 | 7 | (*) | 1 | 7,074 | 6,958 | 6,310 | 167 | 1,306 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 361 | 338 | Q | 25 | 12,239 | 11,811 | 10,673 | Q | 1,292 |
| Food sales | 177 | 165 | 165 | N | N | 1,252 | 1,190 | 1,190 | N | N |
| Food service | 380 | 358 | 356 | N | Q | 1,819 | 1,712 | 1,668 | N | Q |
| Health care | 157 | 154 | 153 | (*) | Q | 4,155 | 4,148 | 3,966 | 200 | 523 |
| Inpatient | 10 | 10 | 9 | (*) | 1 | 2,374 | 2,374 | 2,227 | 176 | 477 |
| Outpatient | 147 | 145 | 143 | Q | Q | 1,781 | 1,774 | 1,739 | Q | Q |
| Lodging | 158 | 145 | 142 | Q | Q | 5,826 | 5,700 | 5,308 | Q | Q |
| Mercantile | 602 | 560 | 560 | Q | N | 11,330 | 11,121 | 11,121 | Q | N |
| Retail (other than mall) | 438 | 396 | 396 | N | N | 5,439 | 5,230 | 5,230 | N | N |
| Enclosed and strip malls | 164 | 164 | 164 | Q | N | 5,890 | 5,890 | 5,890 | Q | N |
| Office | 1,012 | 995 | 985 | Q | 10 | 15,952 | 15,882 | 15,179 | Q | 1,096 |
| Public assembly | 352 | 295 | 291 | N | 5 | 5,559 | 5,235 | 4,629 | N | 880 |
| Public order and safety | 84 | 74 | 74 | Q | Q | 1,440 | 1,384 | 1,358 | Q | Q |
| Religious worship | 412 | 375 | 375 | N | Q | 4,557 | 4,271 | 4,271 | N | Q |
| Service | 619 | 435 | 435 | N | N | 4,630 | 3,773 | 3,758 | N | N |
| Warehouse and storage | 796 | 391 | 388 | Q | N | 13,077 | 10,120 | 10,059 | Q | N |
| Other | 125 | 90 | 89 | Q | Q | 2,002 | 1,820 | 1,806 | Q | Q |
| Vacant | 296 | 63 | 62 | N | Q | 3,256 | 1,125 | 1,048 | N | Q |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 275 | 272 | N | Q | 3,983 | 3,087 | 2,908 | N | Q |
| 1920 to 1945 | 488 | 367 | 366 | Q | Q | 6,025 | 5,215 | 5,081 | Q | Q |
| 1946 to 1959 | 599 | 477 | 472 | Q | Q | 7,381 | 6,679 | 6,569 | Q | 203 |
| 1960 to 1969 | 639 | 538 | 528 | Q | 11 | 10,362 | 9,634 | 8,962 | Q | 923 |
| 1970 to 1979 | 684 | 563 | 555 | Q | 9 | 10,846 | 10,031 | 9,440 | Q | 811 |
| 1980 to 1989 | 915 | 730 | 727 | Q | 3 | 15,230 | 14,011 | 13,830 | Q | 310 |
| 1990 to 1999 | 845 | 663 | 654 | Q | 10 | 13,803 | 12,402 | 11,924 | Q | 664 |
| 2000 to 2003 | 375 | 321 | 315 | Q | 5 | 7,215 | 6,939 | 6,463 | Q | Q |
| 2004 to 2007 | 347 | 293 | 290 | Q | 6 | 6,524 | 6,071 | 5,722 | Q | 418 |
| 2008 to 2012 | 303 | 235 | 232 | Q | Q | 5,723 | 5,225 | 5,135 | Q | Q |

## Table B30. Cooling energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling energy sources used (more than one may apply) | | | | | Cooling energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water |
| **All buildings** | 5,557 | 4,461 | 4,413 | 12 | 54 | 87,093 | 79,294 | 76,034 | 732 | 4,608 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 592 | 583 | 6 | 7 | 15,534 | 13,949 | 13,303 | 305 | 794 |
| New England | 302 | 187 | 183 | Q | Q | 4,302 | 3,482 | 3,317 | Q | Q |
| Middle Atlantic | 504 | 405 | 400 | 3 | Q | 11,232 | 10,467 | 9,986 | 216 | 656 |
| Midwest | 1,237 | 970 | 967 | Q | 2 | 18,919 | 17,144 | 16,826 | Q | 585 |
| East North Central | 735 | 601 | 599 | Q | 2 | 12,742 | 11,675 | 11,474 | Q | 420 |
| West North Central | 502 | 370 | 369 | Q | Q | 6,178 | 5,469 | 5,352 | Q | Q |
| South | 2,247 | 1,891 | 1,861 | Q | 35 | 34,279 | 31,734 | 29,950 | Q | 2,479 |
| South Atlantic | 1,091 | 935 | 917 | Q | 22 | 17,981 | 17,094 | 16,368 | Q | 1,202 |
| East South Central | 370 | 335 | 329 | Q | Q | 4,904 | 4,710 | 4,307 | Q | Q |
| West South Central | 786 | 621 | 616 | Q | 6 | 11,394 | 9,931 | 9,275 | Q | 773 |
| West | 1,267 | 1,007 | 1,001 | Q | 9 | 18,360 | 16,467 | 15,955 | Q | 749 |
| Mountain | 338 | 259 | 258 | Q | 1 | 4,981 | 4,489 | 4,205 | Q | Q |
| Pacific | 929 | 748 | 743 | Q | 8 | 13,379 | 11,978 | 11,749 | Q | 329 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,497 | 1,488 | 8 | 7 | 31,898 | 28,228 | 27,377 | 403 | 1,227 |
| Mixed-humid | 1,743 | 1,482 | 1,467 | 3 | 18 | 27,873 | 26,365 | 24,968 | 272 | 2,027 |
| Mixed-dry/Hot-dry | 837 | 682 | 679 | Q | 7 | 12,037 | 10,887 | 10,490 | Q | Q |
| Hot-humid | 799 | 699 | 680 | Q | 21 | 12,831 | 11,624 | 11,043 | Q | 752 |
| Marine | 147 | 101 | 99 | Q | Q | 2,454 | 2,190 | 2,157 | Q | Q |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 1,932 | 1,918 | Q | Q | 17,751 | 11,595 | 11,383 | Q | Q |
| 5 to 9 | 1,085 | 999 | 994 | N | Q | 8,973 | 8,238 | 8,177 | N | Q |
| 10 to 19 | 731 | 699 | 696 | N | Q | 9,623 | 9,190 | 9,070 | N | Q |
| 20 to 49 | 513 | 498 | 486 | Q | 9 | 14,514 | 14,219 | 13,707 | Q | 505 |
| 50 to 99 | 206 | 203 | 197 | Q | 9 | 13,476 | 13,323 | 12,844 | Q | 683 |
| 100 to 249 | 93 | 93 | 87 | Q | 6 | 10,941 | 10,913 | 10,076 | Q | 982 |
| 250 or more | 37 | 37 | 35 | 1 | 5 | 11,815 | 11,815 | 10,777 | 378 | 1,986 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 690 | 689 | Q | Q | 8,220 | 5,083 | 4,986 | Q | Q |
| 40 to 48 | 1,346 | 1,168 | 1,154 | Q | 12 | 15,828 | 14,512 | 14,078 | Q | 521 |
| 49 to 60 | 1,244 | 1,084 | 1,075 | Q | 10 | 20,529 | 19,297 | 18,670 | Q | 805 |
| 61 to 84 | 764 | 669 | 662 | Q | 9 | 15,867 | 15,170 | 14,763 | Q | 524 |
| 85 to 167 | 479 | 419 | 409 | Q | 12 | 9,395 | 8,864 | 8,451 | Q | 606 |
| Open continuously | 575 | 431 | 423 | Q | 11 | 17,253 | 16,368 | 15,087 | 329 | 2,005 |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 4,781 | 3,817 | 3,802 | 11 | 17 | 67,550 | 60,960 | 59,329 | 542 | 2,104 |
| Owner occupied | 2,466 | 2,046 | 2,038 | Q | 14 | 30,637 | 28,174 | 26,984 | 147 | 1,478 |
| Leased to tenant(s) | 1,745 | 1,421 | 1,415 | Q | 2 | 26,115 | 23,907 | 23,688 | Q | 297 |
| Owner occupied and leased | 349 | 324 | 322 | Q | 1 | 8,873 | 8,602 | 8,379 | Q | 329 |
| Unoccupied | 221 | 26 | 26 | N | N | 1,925 | 278 | 278 | N | N |
| Government owned | 776 | 644 | 611 | Q | 37 | 19,543 | 18,334 | 16,705 | Q | 2,504 |
| Federal | 33 | 33 | 32 | Q | Q | 1,573 | 1,573 | 1,403 | Q | Q |
| State | 185 | 159 | 142 | Q | 20 | 5,539 | 5,252 | 4,086 | Q | 1,448 |
| Local | 558 | 452 | 437 | Q | 16 | 12,431 | 11,508 | 11,217 | Q | 612 |

## Table B30. Cooling energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling energy sources used (more than one may apply) | | | | | Cooling energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water |
| **All buildings** | 5,557 | 4,461 | 4,413 | 12 | 54 | 87,093 | 79,294 | 76,034 | 732 | 4,608 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 4,461 | 4,413 | 12 | 54 | 84,869 | 79,294 | 76,034 | 732 | 4,608 |
| Natural gas | 2,933 | 2,700 | 2,679 | 12 | 21 | 58,725 | 56,899 | 55,138 | 732 | 2,431 |
| Fuel oil | 467 | 360 | 355 | 1 | 8 | 20,200 | 19,309 | 18,259 | 364 | 2,134 |
| District heat | 48 | 44 | 23 | Q | 26 | 5,964 | 5,903 | 3,429 | Q | 3,730 |
| District chilled water | 54 | 54 | 13 | Q | 54 | 4,608 | 4,608 | 1,586 | Q | 4,608 |
| Propane | 510 | 420 | 416 | Q | Q | 7,706 | 7,061 | 6,814 | Q | Q |
| Other | 172 | 126 | 125 | Q | Q | 3,826 | 3,573 | 3,490 | Q | Q |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 1,819 | 1,728 | 1,712 | Q | 20 | 26,205 | 25,613 | 25,317 | Q | 418 |
| Natural gas | 2,322 | 2,126 | 2,116 | 10 | 6 | 42,988 | 41,435 | 40,980 | 703 | 437 |
| Fuel oil | 205 | 135 | 135 | N | N | 2,542 | 1,984 | 1,984 | N | N |
| District heat | 47 | 43 | 23 | Q | 26 | 5,797 | 5,736 | 3,274 | Q | 3,698 |
| Propane | 261 | 207 | 207 | N | N | 1,948 | 1,643 | 1,643 | N | N |
| Other | 67 | 33 | 33 | N | Q | 598 | 425 | 416 | N | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,658 | 2,481 | 2,460 | Q | 27 | 42,755 | 41,520 | 40,675 | Q | 1,381 |
| Natural gas | 1,758 | 1,646 | 1,632 | 7 | 15 | 39,523 | 38,464 | 37,575 | 663 | 1,155 |
| Fuel oil | 77 | 58 | 58 | Q | Q | 1,911 | 1,705 | 1,705 | Q | Q |
| District heat | 25 | 24 | 14 | Q | 13 | 4,551 | 4,527 | 2,668 | Q | 2,783 |
| Propane | 142 | 120 | 120 | N | N | 1,575 | 1,413 | 1,413 | N | N |
| **Cooking energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 1,010 | 962 | 959 | (*) | 6 | 25,151 | 24,665 | 24,152 | 170 | 1,407 |
| Natural gas | 740 | 712 | 707 | 1 | 6 | 24,770 | 24,434 | 23,744 | 294 | 1,175 |
| Propane | 144 | 121 | 120 | N | Q | 2,001 | 1,849 | 1,833 | N | Q |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 4,272 | 4,226 | 12 | 51 | 80,078 | 76,834 | 73,613 | 732 | 4,561 |
| Buildings with cooling | 4,461 | 4,461 | 4,413 | 12 | 54 | 79,294 | 79,294 | 76,034 | 732 | 4,608 |
| Buildings with water heating | 4,423 | 4,097 | 4,054 | 10 | 51 | 79,015 | 76,414 | 73,215 | 724 | 4,511 |
| Buildings with cooking | 1,589 | 1,497 | 1,491 | 1 | 9 | 38,546 | 37,687 | 36,626 | 298 | 2,084 |
| Buildings with manufacturing | 259 | 217 | 217 | Q | Q | 5,078 | 4,682 | 4,682 | Q | Q |
| Buildings with electricity generation | 410 | 386 | 377 | 2 | 12 | 25,642 | 25,350 | 23,770 | 437 | 2,731 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | N | N | N | N | 7,799 | N | N | N | N |
| 1 to 50 | 1,173 | 1,173 | 1,172 | Q | Q | 18,891 | 18,891 | 18,815 | Q | Q |
| 51 to 99 | 897 | 897 | 885 | 1 | 18 | 22,728 | 22,728 | 21,607 | 166 | 1,953 |
| 100 | 2,391 | 2,391 | 2,355 | 9 | 36 | 37,676 | 37,676 | 35,612 | 415 | 2,569 |

## Table B30. Cooling energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling energy sources used (more than one may apply) | | | | | Cooling energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water | All buildings | Buildings with cooling | Elec-tricity | Natural gas | District chilled water |
| **All buildings** | 5,557 | 4,461 | 4,413 | 12 | 54 | 87,093 | 79,294 | 76,034 | 732 | 4,608 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 1,546 | 1,546 | Q | Q | 14,765 | 14,765 | 14,765 | Q | Q |
| Heat pumps | 692 | 692 | 692 | Q | Q | 12,538 | 12,538 | 12,538 | Q | 268 |
| Individual air conditioners | 709 | 709 | 709 | Q | 2 | 12,420 | 12,420 | 12,420 | 174 | 636 |
| District chilled water | 54 | 54 | 13 | Q | 54 | 4,608 | 4,608 | 1,586 | Q | 4,608 |
| Central chillers | 163 | 163 | 162 | 5 | 1 | 17,041 | 17,041 | 16,872 | 629 | 393 |
| Packaged air conditioning units | 1,909 | 1,909 | 1,903 | 8 | 7 | 45,153 | 45,153 | 45,047 | 389 | 833 |
| Swamp coolers | 109 | 109 | 109 | Q | Q | 1,918 | 1,918 | 1,918 | Q | Q |
| Other | Q | Q | Q | Q | Q | 328 | 328 | 328 | Q | Q |

[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).

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B31. Water-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 5,557 | 4,423 | 2,658 | 1,758 | 77 | 25 | 142 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,032 | 1,304 | 684 | Q | Q | 58 |
| 5,001 to 10,000 | 1,229 | 992 | 594 | 384 | Q | Q | 47 |
| 10,001 to 25,000 | 884 | 775 | 431 | 351 | Q | Q | 26 |
| 25,001 to 50,000 | 332 | 307 | 167 | 157 | Q | Q | Q |
| 50,001 to 100,000 | 199 | 186 | 94 | 109 | Q | 6 | Q |
| 100,001 to 200,000 | 90 | 86 | 46 | 49 | 2 | 6 | Q |
| 200,001 to 500,000 | 38 | 36 | 18 | 21 | 1 | 4 | Q |
| Over 500,000 | 8 | 8 | 4 | 4 | (*) | 2 | Q |
| **Principal building activity** | | | | | | | |
| Education | 389 | 332 | 159 | 167 | 11 | 7 | Q |
| Food sales | 177 | 177 | 115 | 59 | Q | N | Q |
| Food service | 380 | 379 | 155 | 216 | Q | Q | 27 |
| Health care | 157 | 156 | 93 | 65 | 2 | 2 | Q |
| Inpatient | 10 | 10 | 2 | 7 | 1 | 1 | Q |
| Outpatient | 147 | 146 | 90 | 58 | Q | Q | Q |
| Lodging | 158 | 158 | 55 | 91 | Q | 3 | Q |
| Mercantile | 602 | 531 | 400 | 194 | Q | Q | Q |
| Retail (other than mall) | 438 | 367 | 263 | 101 | Q | Q | Q |
| Enclosed and strip malls | 164 | 164 | 137 | 93 | Q | Q | Q |
| Office | 1,012 | 943 | 614 | 323 | Q | 8 | Q |
| Public assembly | 352 | 317 | 160 | 135 | Q | 3 | Q |
| Public order and safety | 84 | 80 | 46 | 28 | Q | Q | Q |
| Religious worship | 412 | 383 | 233 | 144 | Q | N | Q |
| Service | 619 | 442 | 273 | 161 | Q | Q | Q |
| Warehouse and storage | 796 | 370 | 264 | 117 | Q | N | Q |
| Other | 125 | 98 | 66 | 31 | Q | Q | Q |
| Vacant | 296 | 56 | 26 | 27 | Q | Q | Q |
| **Year constructed** | | | | | | | |
| Before 1920 | 362 | 286 | 173 | 104 | Q | 2 | Q |
| 1920 to 1945 | 488 | 383 | 187 | 176 | Q | 4 | Q |
| 1946 to 1959 | 599 | 460 | 267 | 189 | Q | 2 | Q |
| 1960 to 1969 | 639 | 540 | 278 | 269 | 14 | 5 | Q |
| 1970 to 1979 | 684 | 577 | 342 | 245 | Q | 4 | Q |
| 1980 to 1989 | 915 | 727 | 495 | 243 | Q | 1 | 21 |
| 1990 to 1999 | 845 | 631 | 377 | 249 | Q | 2 | 30 |
| 2000 to 2003 | 375 | 312 | 204 | 108 | Q | Q | Q |
| 2004 to 2007 | 347 | 275 | 189 | 93 | Q | Q | Q |
| 2008 to 2012 | 303 | 231 | 145 | 83 | Q | Q | Q |

## Table B31. Water-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 5,557 | 4,423 | 2,658 | 1,758 | 77 | 25 | 142 |
| **Census region and division** | | | | | | | |
| Northeast | 805 | 671 | 324 | 291 | 69 | 9 | 37 |
| New England | 302 | 235 | 127 | 55 | 46 | Q | 28 |
| Middle Atlantic | 504 | 436 | 197 | 236 | 23 | Q | Q |
| Midwest | 1,237 | 1,014 | 525 | 493 | Q | 5 | 31 |
| East North Central | 735 | 629 | 295 | 350 | Q | 2 | Q |
| West North Central | 502 | 385 | 230 | 143 | Q | Q | 24 |
| South | 2,247 | 1,740 | 1,242 | 527 | Q | 7 | 42 |
| South Atlantic | 1,091 | 856 | 665 | 202 | Q | Q | 21 |
| East South Central | 370 | 325 | 238 | 92 | Q | Q | Q |
| West South Central | 786 | 560 | 339 | 233 | Q | Q | Q |
| West | 1,267 | 997 | 567 | 447 | Q | 4 | 32 |
| Mountain | 338 | 260 | 130 | 129 | Q | Q | Q |
| Pacific | 929 | 737 | 437 | 317 | Q | 3 | Q |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 2,031 | 1,639 | 838 | 748 | 64 | 10 | 71 |
| Mixed-humid | 1,743 | 1,445 | 944 | 521 | 12 | 10 | 37 |
| Mixed-dry/Hot-dry | 837 | 635 | 358 | 290 | Q | Q | Q |
| Hot-humid | 799 | 590 | 459 | 136 | Q | Q | Q |
| Marine | 147 | 113 | 58 | 63 | Q | Q | N |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 2,892 | 1,917 | 1,207 | 644 | 39 | Q | 71 |
| 5 to 9 | 1,085 | 977 | 606 | 354 | Q | Q | 37 |
| 10 to 19 | 731 | 700 | 376 | 339 | Q | Q | 23 |
| 20 to 49 | 513 | 495 | 290 | 239 | Q | 5 | Q |
| 50 to 99 | 206 | 203 | 115 | 110 | Q | 4 | Q |
| 100 to 249 | 93 | 93 | 45 | 55 | 2 | 6 | Q |
| 250 or more | 37 | 37 | 20 | 17 | 1 | 5 | Q |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 1,149 | 703 | 445 | 239 | Q | Q | Q |
| 40 to 48 | 1,346 | 1,107 | 722 | 381 | 23 | Q | 21 |
| 49 to 60 | 1,244 | 1,063 | 650 | 412 | Q | 6 | 36 |
| 61 to 84 | 764 | 676 | 408 | 299 | Q | 4 | 19 |
| 85 to 167 | 479 | 428 | 225 | 213 | Q | 4 | Q |
| Open continuously | 575 | 447 | 208 | 213 | 18 | 9 | 25 |

## Table B31. Water-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 5,557 | 4,423 | 2,658 | 1,758 | 77 | 25 | 142 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 4,781 | 3,791 | 2,323 | 1,482 | 63 | 13 | 120 |
| Owner occupied | 2,466 | 2,048 | 1,195 | 806 | 45 | 10 | 86 |
| Leased to tenant(s) | 1,745 | 1,401 | 904 | 541 | Q | 1 | 27 |
| Owner occupied and leased | 349 | 316 | 213 | 121 | Q | 2 | Q |
| Unoccupied | 221 | 26 | Q | Q | N | N | Q |
| Government owned | 776 | 632 | 335 | 275 | 14 | 12 | 22 |
| Federal | 33 | 33 | 18 | 14 | Q | 1 | Q |
| State | 185 | 146 | 75 | 66 | Q | 10 | Q |
| Local | 558 | 452 | 242 | 195 | 12 | 2 | Q |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 5,234 | 4,423 | 2,658 | 1,758 | 77 | 25 | 142 |
| Natural gas | 2,933 | 2,742 | 1,180 | 1,758 | 9 | 9 | Q |
| Fuel oil | 467 | 411 | 240 | 106 | 77 | 7 | 11 |
| District heat | 48 | 45 | 16 | 9 | Q | 25 | Q |
| District chilled water | 54 | 51 | 27 | 15 | Q | 13 | N |
| Propane | 510 | 466 | 283 | 43 | 29 | Q | 142 |
| Other | 172 | 141 | 78 | 45 | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | |
| Electricity | 1,819 | 1,599 | 1,315 | 319 | Q | Q | 24 |
| Natural gas | 2,322 | 2,148 | 911 | 1,378 | 5 | Q | Q |
| Fuel oil | 205 | 169 | 104 | Q | 61 | N | Q |
| District heat | 47 | 44 | 16 | 9 | Q | 25 | N |
| Propane | 261 | 234 | 138 | Q | N | N | 101 |
| Other | 67 | 44 | 28 | Q | Q | N | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | |
| Electricity | 1,010 | 997 | 604 | 422 | 22 | 5 | 37 |
| Natural gas | 740 | 739 | 268 | 576 | 7 | 3 | Q |
| Propane | 144 | 142 | 77 | 5 | 17 | N | 58 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 4,722 | 4,237 | 2,512 | 1,722 | 76 | 25 | 133 |
| Buildings with cooling | 4,461 | 4,097 | 2,481 | 1,646 | 58 | 24 | 120 |
| Buildings with water heating | 4,423 | 4,423 | 2,658 | 1,758 | 77 | 25 | 142 |
| Buildings with cooking | 1,589 | 1,573 | 810 | 795 | 41 | 7 | 76 |
| Buildings with manufacturing | 259 | 228 | 145 | 84 | Q | Q | Q |
| Buildings with electricity generation | 410 | 395 | 200 | 184 | 20 | 11 | 20 |

## Table B31. Water-heating energy sources, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 5,557 | 4,423 | 2,658 | 1,758 | 77 | 25 | 142 |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 3,348 | 3,348 | 1,901 | 1,367 | 63 | 19 | 106 |
| Distributed system | 690 | 690 | 508 | 182 | Q | 3 | Q |
| Combination of centralized and distributed system | 385 | 385 | 250 | 209 | 7 | 4 | 14 |

[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).

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B32. Water-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 87,093 | 79,015 | 42,755 | 39,523 | 1,911 | 4,551 | 1,575 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,102 | 3,881 | 2,081 | Q | Q | 171 |
| 5,001 to 10,000 | 8,900 | 7,236 | 4,348 | 2,809 | Q | Q | 321 |
| 10,001 to 25,000 | 14,105 | 12,401 | 6,926 | 5,657 | Q | Q | 376 |
| 25,001 to 50,000 | 11,917 | 11,007 | 5,975 | 5,643 | Q | Q | Q |
| 50,001 to 100,000 | 13,918 | 13,063 | 6,672 | 7,528 | Q | 425 | Q |
| 100,001 to 200,000 | 12,415 | 11,903 | 6,162 | 6,819 | 238 | 965 | Q |
| 200,001 to 500,000 | 10,724 | 10,351 | 5,005 | 5,995 | 370 | 1,318 | Q |
| Over 500,000 | 7,074 | 6,951 | 3,786 | 2,990 | 215 | 1,652 | Q |
| **Principal building activity** | | | | | | | |
| Education | 12,239 | 11,905 | 4,160 | 7,712 | 638 | 842 | Q |
| Food sales | 1,252 | 1,252 | 776 | 672 | Q | N | Q |
| Food service | 1,819 | 1,817 | 750 | 1,026 | Q | Q | 135 |
| Health care | 4,155 | 4,153 | 1,309 | 2,587 | 345 | 576 | Q |
| Inpatient | 2,374 | 2,374 | 401 | 1,688 | 248 | 489 | Q |
| Outpatient | 1,781 | 1,779 | 908 | 899 | Q | Q | Q |
| Lodging | 5,826 | 5,821 | 1,122 | 4,267 | Q | 573 | Q |
| Mercantile | 11,330 | 10,960 | 8,922 | 5,490 | Q | Q | Q |
| Retail (other than mall) | 5,439 | 5,070 | 3,721 | 1,642 | Q | Q | Q |
| Enclosed and strip malls | 5,890 | 5,890 | 5,201 | 3,848 | Q | Q | Q |
| Office | 15,952 | 15,663 | 9,572 | 6,015 | Q | 1,368 | Q |
| Public assembly | 5,559 | 5,318 | 2,094 | 2,813 | Q | 742 | Q |
| Public order and safety | 1,440 | 1,341 | 635 | 742 | Q | Q | Q |
| Religious worship | 4,557 | 4,337 | 2,481 | 1,962 | Q | N | Q |
| Service | 4,630 | 3,763 | 2,303 | 1,416 | Q | Q | Q |
| Warehouse and storage | 13,077 | 10,041 | 7,195 | 3,545 | Q | N | Q |
| Other | 2,002 | 1,614 | 1,019 | 694 | Q | Q | Q |
| Vacant | 3,256 | 1,031 | 417 | 582 | Q | Q | Q |
| **Year constructed** | | | | | | | |
| Before 1920 | 3,983 | 3,403 | 1,858 | 1,274 | Q | 369 | Q |
| 1920 to 1945 | 6,025 | 5,299 | 2,357 | 2,362 | Q | 847 | Q |
| 1946 to 1959 | 7,381 | 6,410 | 2,829 | 3,659 | 299 | 287 | Q |
| 1960 to 1969 | 10,362 | 9,699 | 4,423 | 5,654 | 366 | 828 | Q |
| 1970 to 1979 | 10,846 | 10,158 | 4,854 | 5,625 | Q | 718 | Q |
| 1980 to 1989 | 15,230 | 13,831 | 8,845 | 6,263 | Q | 200 | 312 |
| 1990 to 1999 | 13,803 | 12,209 | 6,946 | 6,084 | Q | 442 | 334 |
| 2000 to 2003 | 7,215 | 6,889 | 4,066 | 3,131 | Q | Q | Q |
| 2004 to 2007 | 6,524 | 5,955 | 3,725 | 2,837 | Q | Q | Q |
| 2008 to 2012 | 5,723 | 5,162 | 2,852 | 2,635 | Q | Q | Q |

## Table B32. Water-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 87,093 | 79,015 | 42,755 | 39,523 | 1,911 | 4,551 | 1,575 |
| **Census region and division** | | | | | | | |
| Northeast | 15,534 | 14,633 | 6,561 | 7,533 | 1,401 | 1,641 | 389 |
| New England | 4,302 | 3,915 | 1,939 | 1,492 | 693 | Q | 233 |
| Middle Atlantic | 11,232 | 10,718 | 4,622 | 6,042 | 708 | 1,383 | Q |
| Midwest | 18,919 | 17,592 | 7,934 | 10,615 | Q | 767 | 392 |
| East North Central | 12,742 | 12,082 | 4,914 | 7,910 | Q | 470 | Q |
| West North Central | 6,178 | 5,510 | 3,020 | 2,705 | Q | Q | 251 |
| South | 34,279 | 30,261 | 19,449 | 12,258 | Q | 1,568 | 534 |
| South Atlantic | 17,981 | 16,144 | 11,163 | 5,651 | Q | 944 | 353 |
| East South Central | 4,904 | 4,598 | 2,900 | 2,103 | Q | Q | Q |
| West South Central | 11,394 | 9,519 | 5,386 | 4,504 | Q | Q | Q |
| West | 18,360 | 16,529 | 8,811 | 9,116 | Q | 575 | 260 |
| Mountain | 4,981 | 4,440 | 2,000 | 2,665 | Q | Q | Q |
| Pacific | 13,379 | 12,089 | 6,810 | 6,452 | Q | 243 | Q |
| **Climate region[1]** | | | | | | | |
| Very cold/Cold | 31,898 | 29,567 | 13,252 | 16,960 | 1,111 | 1,515 | 768 |
| Mixed-humid | 27,873 | 25,772 | 14,954 | 11,896 | 711 | 2,304 | 482 |
| Mixed-dry/Hot-dry | 12,037 | 10,585 | 5,678 | 5,927 | Q | Q | Q |
| Hot-humid | 12,831 | 10,837 | 7,690 | 3,447 | Q | Q | Q |
| Marine | 2,454 | 2,255 | 1,180 | 1,294 | Q | Q | N |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 17,751 | 11,783 | 6,498 | 4,706 | 319 | Q | 512 |
| 5 to 9 | 8,973 | 8,205 | 4,882 | 3,280 | Q | Q | 289 |
| 10 to 19 | 9,623 | 9,137 | 4,980 | 4,518 | Q | Q | 210 |
| 20 to 49 | 14,514 | 14,097 | 7,767 | 7,529 | Q | 331 | Q |
| 50 to 99 | 13,476 | 13,171 | 7,104 | 7,742 | Q | 409 | Q |
| 100 to 249 | 10,941 | 10,912 | 5,572 | 6,380 | 347 | 961 | Q |
| 250 or more | 11,815 | 11,711 | 5,951 | 5,367 | 332 | 2,581 | Q |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 8,220 | 5,137 | 2,681 | 2,427 | Q | Q | Q |
| 40 to 48 | 15,828 | 14,388 | 8,295 | 6,420 | 418 | Q | 220 |
| 49 to 60 | 20,529 | 18,878 | 10,853 | 8,403 | Q | 941 | 313 |
| 61 to 84 | 15,867 | 15,304 | 9,918 | 7,825 | Q | 501 | 243 |
| 85 to 167 | 9,395 | 8,937 | 4,695 | 5,011 | Q | 488 | Q |
| Open continuously | 17,253 | 16,371 | 6,313 | 9,437 | 544 | 2,337 | 445 |

## Table B32. Water-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 87,093 | 79,015 | 42,755 | 39,523 | 1,911 | 4,551 | 1,575 |
| **Ownership and occupancy** | | | | | | | |
| Nongovernment owned | 67,550 | 60,645 | 35,729 | 28,106 | 1,108 | 2,566 | 1,179 |
| Owner occupied | 30,637 | 27,869 | 13,903 | 13,220 | 757 | 1,593 | 849 |
| Leased to tenant(s) | 26,115 | 23,900 | 16,509 | 10,578 | Q | 456 | 195 |
| Owner occupied and leased | 8,873 | 8,544 | 5,232 | 4,063 | Q | 517 | Q |
| Unoccupied | 1,925 | 332 | Q | Q | N | N | Q |
| Government owned | 19,543 | 18,370 | 7,025 | 11,417 | 804 | 1,986 | 396 |
| Federal | 1,573 | 1,565 | 667 | 628 | Q | 691 | Q |
| State | 5,539 | 5,270 | 1,907 | 3,096 | Q | 1,010 | Q |
| Local | 12,431 | 11,535 | 4,452 | 7,693 | 607 | 285 | Q |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 84,869 | 79,015 | 42,755 | 39,523 | 1,911 | 4,551 | 1,575 |
| Natural gas | 58,725 | 57,019 | 24,822 | 39,523 | 656 | 2,204 | Q |
| Fuel oil | 20,200 | 19,708 | 9,324 | 9,484 | 1,911 | 2,498 | 353 |
| District heat | 5,964 | 5,822 | 1,857 | 834 | Q | 4,551 | Q |
| District chilled water | 4,608 | 4,511 | 1,381 | 1,155 | Q | 2,783 | N |
| Propane | 7,706 | 7,383 | 3,982 | 2,110 | 824 | Q | 1,575 |
| Other | 3,826 | 3,679 | 1,875 | 1,782 | Q | Q | Q |
| **Primary space-heating energy source** | | | | | | | |
| Electricity | 26,205 | 24,862 | 19,438 | 7,239 | Q | Q | 370 |
| Natural gas | 42,988 | 41,377 | 17,136 | 30,635 | 436 | Q | Q |
| Fuel oil | 2,542 | 2,362 | 1,214 | Q | 1,220 | N | Q |
| District heat | 5,797 | 5,655 | 1,781 | 822 | Q | 4,451 | N |
| Propane | 1,948 | 1,819 | 930 | Q | N | N | 973 |
| Other | 598 | 508 | 301 | Q | Q | N | Q |
| **Cooking energy sources (more than one may apply)** | | | | | | | |
| Electricity | 25,151 | 25,034 | 13,898 | 13,806 | 876 | 1,832 | 524 |
| Natural gas | 24,770 | 24,735 | 10,836 | 18,986 | 513 | 1,347 | Q |
| Propane | 2,001 | 1,997 | 923 | 199 | 548 | N | 793 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 80,078 | 76,584 | 40,801 | 39,083 | 1,805 | 4,551 | 1,478 |
| Buildings with cooling | 79,294 | 76,414 | 41,520 | 38,464 | 1,705 | 4,527 | 1,413 |
| Buildings with water heating | 79,015 | 79,015 | 42,755 | 39,523 | 1,911 | 4,551 | 1,575 |
| Buildings with cooking | 38,546 | 38,389 | 18,787 | 23,232 | 1,412 | 2,584 | 976 |
| Buildings with manufacturing | 5,078 | 4,570 | 2,952 | 1,929 | Q | Q | Q |
| Buildings with electricity generation | 25,642 | 25,280 | 11,460 | 14,319 | 964 | 3,078 | 488 |

## Table B32. Water-heating energy sources, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | Water-heating energy sources used (more than one may apply) | | | | |
| | All buildings | Buildings with water heating | Electricity | Natural gas | Fuel oil | District heat | Propane |
| **All buildings** | 87,093 | 79,015 | 42,755 | 39,523 | 1,911 | 4,551 | 1,575 |
| **Water-heating equipment** | | | | | | | |
| Centralized system | 47,534 | 47,534 | 21,435 | 24,806 | 1,318 | 3,002 | 1,006 |
| Distributed system | 12,688 | 12,688 | 9,362 | 4,088 | Q | 325 | Q |
| Combination of centralized and distributed system | 18,793 | 18,793 | 11,957 | 10,629 | 467 | 1,224 | 348 |

[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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B33. Cooking energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooking energy sources used (more than one may apply) | | | | | Cooking energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooking | Elec-tricity | Natural gas | Propane | All buildings | Buildings with cooking | Elec-tricity | Natural gas | Propane |
| **All buildings** | 5,557 | 1,589 | 1,010 | 740 | 144 | 87,093 | 38,546 | 25,151 | 24,770 | 2,001 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 673 | 441 | 265 | 77 | 8,041 | 2,073 | 1,351 | 819 | 242 |
| 5,001 to 10,000 | 1,229 | 376 | 225 | 168 | 37 | 8,900 | 2,733 | 1,625 | 1,252 | 281 |
| 10,001 to 25,000 | 884 | 257 | 167 | 126 | 17 | 14,105 | 4,134 | 2,651 | 2,124 | 253 |
| 25,001 to 50,000 | 332 | 108 | 63 | 64 | Q | 11,917 | 3,858 | 2,279 | 2,271 | Q |
| 50,001 to 100,000 | 199 | 96 | 63 | 62 | 6 | 13,918 | 6,870 | 4,530 | 4,526 | 367 |
| 100,001 to 200,000 | 90 | 48 | 31 | 33 | Q | 12,415 | 6,587 | 4,204 | 4,677 | Q |
| 200,001 to 500,000 | 38 | 25 | 16 | 18 | Q | 10,724 | 6,969 | 4,658 | 5,172 | Q |
| Over 500,000 | 8 | 6 | 4 | 4 | Q | 7,074 | 5,322 | 3,854 | 3,930 | Q |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 169 | 116 | 86 | 7 | 12,239 | 8,479 | 5,876 | 5,686 | 420 |
| Food sales | 177 | 111 | 79 | 38 | Q | 1,252 | 943 | 651 | 588 | Q |
| Food service | 380 | 353 | 183 | 246 | 40 | 1,819 | 1,738 | 847 | 1,263 | 213 |
| Health care | 157 | 22 | 19 | 8 | Q | 4,155 | 2,649 | 1,952 | 1,989 | Q |
| Inpatient | 10 | 9 | 5 | 7 | Q | 2,374 | 2,230 | 1,564 | 1,826 | Q |
| Outpatient | 147 | 13 | 13 | Q | Q | 1,781 | 419 | 388 | Q | Q |
| Lodging | 158 | 94 | 52 | 49 | 14 | 5,826 | 4,293 | 2,250 | 3,167 | 362 |
| Mercantile | 602 | 157 | 101 | 92 | Q | 11,330 | 6,396 | 4,107 | 4,886 | Q |
| Retail (other than mall) | 438 | 52 | 43 | 9 | Q | 5,439 | 1,773 | 1,250 | 984 | Q |
| Enclosed and strip malls | 164 | 105 | 58 | 83 | Q | 5,890 | 4,623 | 2,858 | 3,902 | Q |
| Office | 1,012 | 130 | 101 | 39 | Q | 15,952 | 5,230 | 3,637 | 2,799 | Q |
| Public assembly | 352 | 143 | 89 | 46 | 24 | 5,559 | 2,751 | 1,980 | 1,484 | 241 |
| Public order and safety | 84 | 56 | 38 | 16 | Q | 1,440 | 912 | 622 | 455 | Q |
| Religious worship | 412 | 261 | 167 | 93 | Q | 4,557 | 3,394 | 1,966 | 1,799 | Q |
| Service | 619 | 39 | 28 | Q | Q | 4,630 | 517 | 447 | Q | Q |
| Warehouse and storage | 796 | 33 | 26 | Q | Q | 13,077 | 922 | 669 | Q | Q |
| Other | 125 | Q | Q | Q | Q | 2,002 | Q | Q | Q | Q |
| Vacant | 296 | Q | Q | Q | Q | 3,256 | Q | Q | Q | Q |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 130 | 82 | 45 | Q | 3,983 | 1,493 | 998 | 656 | Q |
| 1920 to 1945 | 488 | 138 | 84 | 73 | Q | 6,025 | 2,711 | 1,819 | 1,512 | Q |
| 1946 to 1959 | 599 | 189 | 109 | 96 | 19 | 7,381 | 3,409 | 1,948 | 2,274 | 196 |
| 1960 to 1969 | 639 | 188 | 108 | 105 | Q | 10,362 | 4,644 | 2,862 | 3,360 | Q |
| 1970 to 1979 | 684 | 195 | 130 | 93 | 14 | 10,846 | 4,837 | 2,990 | 3,265 | 262 |
| 1980 to 1989 | 915 | 221 | 148 | 103 | 9 | 15,230 | 6,545 | 4,342 | 4,168 | 360 |
| 1990 to 1999 | 845 | 232 | 145 | 113 | 27 | 13,803 | 6,517 | 4,293 | 4,387 | 452 |
| 2000 to 2003 | 375 | 102 | 75 | 38 | Q | 7,215 | 2,874 | 2,126 | 1,752 | Q |
| 2004 to 2007 | 347 | 108 | 69 | 40 | Q | 6,524 | 3,140 | 1,942 | 1,984 | Q |
| 2008 to 2012 | 303 | 84 | 60 | 34 | Q | 5,723 | 2,375 | 1,831 | 1,410 | Q |

## Table B33. Cooking energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooking energy sources used (more than one may apply) | | | | | Cooking energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooking | Elec-tricity | Natural gas | Propane | All buildings | Buildings with cooking | Elec-tricity | Natural gas | Propane |
| **All buildings** | 5,557 | 1,589 | 1,010 | 740 | 144 | 87,093 | 38,546 | 25,151 | 24,770 | 2,001 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 249 | 120 | 123 | 48 | 15,534 | 8,177 | 4,677 | 5,357 | 779 |
| New England | 302 | 104 | 53 | 33 | Q | 4,302 | 2,053 | 1,143 | 1,015 | 486 |
| Middle Atlantic | 504 | 145 | 67 | 90 | 10 | 11,232 | 6,124 | 3,534 | 4,341 | 293 |
| Midwest | 1,237 | 370 | 260 | 163 | 28 | 18,919 | 8,726 | 6,159 | 5,642 | 328 |
| East North Central | 735 | 233 | 161 | 120 | Q | 12,742 | 6,175 | 4,211 | 4,293 | Q |
| West North Central | 502 | 137 | 99 | 43 | 23 | 6,178 | 2,551 | 1,949 | 1,349 | 211 |
| South | 2,247 | 664 | 439 | 286 | 53 | 34,279 | 14,381 | 9,812 | 8,572 | 663 |
| South Atlantic | 1,091 | 307 | 206 | 124 | 31 | 17,981 | 7,925 | 5,446 | 4,427 | 510 |
| East South Central | 370 | 144 | 98 | 59 | Q | 4,904 | 2,255 | 1,544 | 1,487 | Q |
| West South Central | 786 | 213 | 135 | 103 | Q | 11,394 | 4,201 | 2,822 | 2,658 | Q |
| West | 1,267 | 306 | 191 | 168 | Q | 18,360 | 7,262 | 4,503 | 5,200 | 230 |
| Mountain | 338 | 84 | 58 | 36 | Q | 4,981 | 2,420 | 1,522 | 1,694 | Q |
| Pacific | 929 | 222 | 133 | 132 | Q | 13,379 | 4,842 | 2,981 | 3,506 | Q |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 574 | 360 | 251 | 70 | 31,898 | 14,975 | 9,761 | 9,670 | 1,008 |
| Mixed-humid | 1,743 | 558 | 353 | 268 | 44 | 27,873 | 13,469 | 9,042 | 8,466 | 503 |
| Mixed-dry/Hot-dry | 837 | 188 | 111 | 113 | Q | 12,037 | 4,029 | 2,299 | 3,055 | Q |
| Hot-humid | 799 | 230 | 162 | 81 | 22 | 12,831 | 5,098 | 3,437 | 2,873 | 391 |
| Marine | 147 | 39 | 24 | 27 | Q | 2,454 | 975 | 612 | 706 | Q |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 660 | 416 | 243 | 81 | 17,751 | 4,138 | 2,425 | 1,747 | 510 |
| 5 to 9 | 1,085 | 308 | 206 | 131 | Q | 8,973 | 2,501 | 1,747 | 1,095 | Q |
| 10 to 19 | 731 | 271 | 163 | 141 | 22 | 9,623 | 3,203 | 2,080 | 1,501 | 250 |
| 20 to 49 | 513 | 197 | 124 | 121 | Q | 14,514 | 6,481 | 3,839 | 4,502 | Q |
| 50 to 99 | 206 | 92 | 62 | 61 | 5 | 13,476 | 7,501 | 5,012 | 5,178 | 438 |
| 100 to 249 | 93 | 40 | 25 | 30 | 2 | 10,941 | 6,181 | 3,989 | 4,852 | 268 |
| 250 or more | 37 | 21 | 14 | 13 | Q | 11,815 | 8,540 | 6,060 | 5,895 | Q |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 329 | 219 | 103 | 29 | 8,220 | 2,921 | 1,784 | 1,340 | 143 |
| 40 to 48 | 1,346 | 228 | 160 | 83 | Q | 15,828 | 4,974 | 3,446 | 2,792 | Q |
| 49 to 60 | 1,244 | 251 | 171 | 107 | Q | 20,529 | 6,900 | 4,845 | 3,813 | Q |
| 61 to 84 | 764 | 290 | 156 | 182 | 30 | 15,867 | 8,122 | 5,158 | 5,830 | 323 |
| 85 to 167 | 479 | 249 | 149 | 154 | 25 | 9,395 | 4,615 | 3,007 | 3,146 | 343 |
| Open continuously | 575 | 242 | 155 | 110 | 32 | 17,253 | 11,014 | 6,911 | 7,849 | 703 |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 4,781 | 1,359 | 846 | 646 | 125 | 67,550 | 26,909 | 16,711 | 17,556 | 1,424 |
| Owner occupied | 2,466 | 854 | 544 | 352 | 87 | 30,637 | 13,400 | 8,113 | 8,066 | 904 |
| Leased to tenant(s) | 1,745 | 416 | 253 | 247 | 30 | 26,115 | 9,378 | 6,036 | 6,438 | 280 |
| Owner occupied and leased | 349 | 82 | 46 | 44 | Q | 8,873 | 4,115 | 2,557 | 3,041 | Q |
| Unoccupied | 221 | Q | Q | Q | N | 1,925 | Q | Q | Q | N |
| Government owned | 776 | 230 | 165 | 94 | 19 | 19,543 | 11,637 | 8,440 | 7,214 | 577 |
| Federal | 33 | 8 | 7 | 1 | Q | 1,573 | 933 | 851 | 305 | Q |
| State | 185 | 40 | 27 | 19 | Q | 5,539 | 2,538 | 1,659 | 1,546 | Q |
| Local | 558 | 182 | 131 | 73 | 17 | 12,431 | 8,166 | 5,930 | 5,363 | 462 |

## Table B33. Cooking energy sources, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooking energy sources used (more than one may apply) | | | | | Cooking energy sources used (more than one may apply) | | |
| | All buildings | Buildings with cooking | Elec-tricity | Natural gas | Propane | All buildings | Buildings with cooking | Elec-tricity | Natural gas | Propane |
| **All buildings** | 5,557 | 1,589 | 1,010 | 740 | 144 | 87,093 | 38,546 | 25,151 | 24,770 | 2,001 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 1,589 | 1,010 | 740 | 144 | 84,869 | 38,546 | 25,151 | 24,770 | 2,001 |
| Natural gas | 2,933 | 1,087 | 599 | 740 | 7 | 58,725 | 31,026 | 18,711 | 24,770 | 292 |
| Fuel oil | 467 | 166 | 110 | 64 | 32 | 20,200 | 12,694 | 8,895 | 8,238 | 950 |
| District heat | 48 | 14 | 10 | 8 | Q | 5,964 | 3,154 | 2,245 | 1,663 | Q |
| District chilled water | 54 | 9 | 6 | 6 | Q | 4,608 | 2,084 | 1,407 | 1,175 | Q |
| Propane | 510 | 234 | 137 | 15 | 144 | 7,706 | 4,209 | 2,578 | 1,466 | 2,001 |
| Other | 172 | 60 | 37 | 22 | Q | 3,826 | 2,076 | 1,278 | 1,226 | Q |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,658 | 810 | 604 | 268 | 77 | 42,755 | 18,787 | 13,898 | 10,836 | 923 |
| Natural gas | 1,758 | 795 | 422 | 576 | 5 | 39,523 | 23,232 | 13,806 | 18,986 | 199 |
| Fuel oil | 77 | 41 | 22 | 7 | 17 | 1,911 | 1,412 | 876 | 513 | 548 |
| District heat | 25 | 7 | 5 | 3 | N | 4,551 | 2,584 | 1,832 | 1,347 | N |
| Propane | 142 | 76 | 37 | Q | 58 | 1,575 | 976 | 524 | Q | 793 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 1,525 | 969 | 717 | 132 | 80,078 | 37,771 | 24,576 | 24,425 | 1,877 |
| Buildings with cooling | 4,461 | 1,497 | 962 | 712 | 121 | 79,294 | 37,687 | 24,665 | 24,434 | 1,849 |
| Buildings with water heating | 4,423 | 1,573 | 997 | 739 | 142 | 79,015 | 38,389 | 25,034 | 24,735 | 1,997 |
| Buildings with cooking | 1,589 | 1,589 | 1,010 | 740 | 144 | 38,546 | 38,546 | 25,151 | 24,770 | 2,001 |
| Buildings with manufacturing | 259 | 64 | 43 | 20 | Q | 5,078 | 1,300 | 780 | 782 | Q |
| Buildings with electricity generation | 410 | 202 | 128 | 107 | 25 | 25,642 | 16,803 | 11,443 | 11,825 | 916 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 153 | 153 | 120 | 67 | 17 | 9,884 | 9,884 | 7,529 | 6,686 | 677 |
| Fast food or small restaurant | 173 | 173 | 99 | 115 | 19 | 9,787 | 9,787 | 6,204 | 7,482 | 364 |
| Cafeteria or large restaurant | 130 | 130 | 76 | 89 | 11 | 15,222 | 15,222 | 9,855 | 11,436 | 805 |
| Commercial kitchen/ food preparation area | 282 | 282 | 152 | 191 | 23 | 16,150 | 16,150 | 10,121 | 12,728 | 723 |
| Small kitchen area | 736 | 736 | 535 | 213 | 57 | 14,054 | 14,054 | 10,205 | 7,370 | 626 |

[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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated |
| **All buildings** | 5,557 | 835 | 697 | 727 | 3,298 | 87,093 | 7,015 | 10,130 | 14,650 | 55,298 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 520 | 301 | 299 | 1,657 | 8,041 | 1,342 | 951 | 914 | 4,833 |
| 5,001 to 10,000 | 1,229 | 183 | 186 | 184 | 676 | 8,900 | 1,310 | 1,387 | 1,338 | 4,866 |
| 10,001 to 25,000 | 884 | 86 | 143 | 135 | 520 | 14,105 | 1,360 | 2,365 | 2,048 | 8,332 |
| 25,001 to 50,000 | 332 | 28 | 36 | 47 | 221 | 11,917 | 1,007 | 1,292 | 1,657 | 7,962 |
| 50,001 to 100,000 | 199 | 12 | 19 | 36 | 133 | 13,918 | 804 | 1,359 | 2,469 | 9,287 |
| 100,001 to 200,000 | 90 | 4 | 8 | 16 | 63 | 12,415 | 474 | 1,146 | 2,163 | 8,632 |
| 200,001 to 500,000 | 38 | Q | 4 | 8 | 24 | 10,724 | Q | 1,131 | 2,202 | 7,015 |
| Over 500,000 | 8 | Q | 1 | 2 | 5 | 7,074 | Q | 500 | 1,859 | 4,371 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | Q | Q | 56 | 314 | 12,239 | Q | Q | 1,699 | 10,178 |
| Food sales | 177 | Q | Q | 46 | 105 | 1,252 | Q | Q | 405 | 743 |
| Food service | 380 | Q | 37 | 63 | 260 | 1,819 | Q | 185 | 368 | 1,209 |
| Health care | 157 | Q | Q | 13 | 129 | 4,155 | Q | Q | 435 | 3,564 |
| Inpatient | 10 | Q | Q | 1 | 8 | 2,374 | Q | Q | 269 | 2,069 |
| Outpatient | 147 | Q | Q | 12 | 121 | 1,781 | Q | Q | 166 | 1,495 |
| Lodging | 158 | Q | Q | 15 | 128 | 5,826 | Q | Q | 938 | 4,572 |
| Mercantile | 602 | 30 | 73 | 138 | 361 | 11,330 | 536 | 914 | 3,302 | 6,577 |
| Retail (other than mall) | 438 | 27 | 60 | 82 | 270 | 5,439 | 351 | 439 | 1,236 | 3,412 |
| Enclosed and strip malls | 164 | Q | 13 | 57 | 91 | 5,890 | Q | 475 | 2,066 | 3,165 |
| Office | 1,012 | 23 | 73 | 165 | 750 | 15,952 | 198 | 758 | 3,558 | 11,437 |
| Public assembly | 352 | 22 | 35 | 51 | 244 | 5,559 | 236 | 544 | 996 | 3,783 |
| Public order and safety | 84 | Q | Q | Q | 66 | 1,440 | Q | Q | Q | 1,200 |
| Religious worship | 412 | Q | 35 | 43 | 330 | 4,557 | Q | 496 | 710 | 3,305 |
| Service | 619 | 90 | 109 | 86 | 334 | 4,630 | 474 | 767 | 747 | 2,643 |
| Warehouse and storage | 796 | 375 | 224 | 28 | 168 | 13,077 | 3,091 | 4,737 | 843 | 4,407 |
| Other | 125 | Q | 30 | Q | 61 | 2,002 | Q | 408 | Q | 1,038 |
| Vacant | 296 | 209 | 33 | Q | 48 | 3,256 | 1,841 | 639 | Q | 642 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 39 | 65 | 70 | 187 | 3,983 | 400 | 705 | 777 | 2,101 |
| 1920 to 1945 | 488 | 75 | 42 | 74 | 296 | 6,025 | 498 | 507 | 1,314 | 3,706 |
| 1946 to 1959 | 599 | 83 | 81 | 85 | 350 | 7,381 | 486 | 927 | 1,358 | 4,610 |
| 1960 to 1969 | 639 | 80 | 74 | 82 | 403 | 10,362 | 633 | 1,094 | 1,407 | 7,228 |
| 1970 to 1979 | 684 | 85 | 101 | 76 | 421 | 10,846 | 800 | 1,378 | 1,474 | 7,193 |
| 1980 to 1989 | 915 | 161 | 134 | 121 | 500 | 15,230 | 1,507 | 2,091 | 2,991 | 8,641 |
| 1990 to 1999 | 845 | 170 | 101 | 94 | 480 | 13,803 | 1,414 | 1,417 | 2,487 | 8,485 |
| 2000 to 2003 | 375 | 53 | 38 | 47 | 237 | 7,215 | 508 | 741 | 1,164 | 4,803 |
| 2004 to 2007 | 347 | 56 | 31 | 40 | 220 | 6,524 | 552 | 722 | 1,013 | 4,237 |
| 2008 to 2012 | 303 | 33 | 30 | 37 | 203 | 5,723 | 218 | 547 | 664 | 4,294 |

## Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated |
| **All buildings** | 5,557 | 835 | 697 | 727 | 3,298 | 87,093 | 7,015 | 10,130 | 14,650 | 55,298 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 79 | 86 | 137 | 503 | 15,534 | 481 | 1,132 | 2,873 | 11,049 |
| New England | 302 | 38 | 32 | 53 | 179 | 4,302 | 212 | Q | 805 | 2,910 |
| Middle Atlantic | 504 | 41 | 55 | 84 | 324 | 11,232 | 269 | 757 | 2,068 | 8,138 |
| Midwest | 1,237 | 141 | 103 | 137 | 856 | 18,919 | 864 | 1,310 | 2,239 | 14,506 |
| East North Central | 735 | 65 | 56 | 76 | 538 | 12,742 | 502 | 734 | 1,545 | 9,961 |
| West North Central | 502 | 76 | 47 | 61 | 318 | 6,178 | 362 | 576 | 694 | 4,545 |
| South | 2,247 | 405 | 297 | 267 | 1,278 | 34,279 | 3,781 | 3,979 | 6,218 | 20,302 |
| South Atlantic | 1,091 | 218 | 137 | 127 | 610 | 17,981 | 2,098 | 2,193 | 3,098 | 10,592 |
| East South Central | 370 | 34 | 40 | 44 | 252 | 4,904 | 212 | 469 | 1,236 | 2,987 |
| West South Central | 786 | 153 | 121 | 96 | 416 | 11,394 | 1,471 | 1,317 | 1,883 | 6,724 |
| West | 1,267 | 210 | 211 | 185 | 661 | 18,360 | 1,890 | 3,709 | 3,320 | 9,441 |
| Mountain | 338 | 45 | 32 | 32 | 230 | 4,981 | 277 | 592 | 658 | 3,453 |
| Pacific | 929 | 165 | 179 | 153 | 432 | 13,379 | 1,612 | 3,117 | 2,662 | 5,988 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 239 | 193 | 239 | 1,360 | 31,898 | 1,430 | 2,315 | 4,050 | 24,104 |
| Mixed-humid | 1,743 | 199 | 188 | 231 | 1,125 | 27,873 | 1,157 | 2,485 | 5,425 | 18,806 |
| Mixed-dry/Hot-dry | 837 | 161 | 185 | 139 | 352 | 12,037 | 1,553 | 3,165 | 2,434 | 4,885 |
| Hot-humid | 799 | 205 | 114 | 92 | 387 | 12,831 | 2,741 | 1,752 | 2,146 | 6,193 |
| Marine | 147 | Q | 18 | Q | 73 | 2,454 | Q | 414 | 595 | 1,310 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 723 | 489 | 418 | 2,206 | 39,809 | 5,296 | 5,882 | 5,845 | 22,786 |
| Two | 1,158 | 86 | 151 | 170 | 750 | 20,206 | 795 | 2,788 | 2,862 | 13,761 |
| Three | 374 | Q | 42 | 93 | 220 | 8,140 | Q | 583 | 1,500 | 5,812 |
| Four to nine | 177 | 6 | 15 | 42 | 114 | 13,535 | 543 | 690 | 2,606 | 9,697 |
| Ten or more | 13 | Q | Q | 4 | 8 | 5,404 | Q | Q | 1,836 | 3,242 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 708 | 366 | 331 | 1,487 | 17,751 | 4,820 | 2,527 | 1,904 | 8,500 |
| 5 to 9 | 1,085 | 65 | 165 | 153 | 702 | 8,973 | 481 | 2,012 | 1,369 | 5,111 |
| 10 to 19 | 731 | 39 | 92 | 107 | 493 | 9,623 | 652 | 1,543 | 1,323 | 6,104 |
| 20 to 49 | 513 | 19 | 57 | 74 | 362 | 14,514 | 389 | 1,988 | 2,561 | 9,576 |
| 50 to 99 | 206 | Q | 10 | 41 | 152 | 13,476 | Q | 968 | 2,870 | 9,345 |
| 100 to 249 | 93 | Q | 5 | 14 | 74 | 10,941 | Q | 648 | 1,721 | 8,436 |
| 250 or more | 37 | Q | 1 | 7 | 29 | 11,815 | Q | 444 | 2,900 | 8,226 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 334 | 131 | 94 | 590 | 8,220 | 2,457 | 908 | 651 | 4,205 |
| 40 to 48 | 1,346 | 116 | 225 | 178 | 827 | 15,828 | 961 | 2,656 | 2,655 | 9,556 |
| 49 to 60 | 1,244 | 100 | 169 | 167 | 807 | 20,529 | 1,164 | 2,753 | 2,894 | 13,718 |
| 61 to 84 | 764 | 92 | 98 | 136 | 438 | 15,867 | 719 | 1,751 | 3,556 | 9,841 |
| 85 to 167 | 479 | 65 | 35 | 91 | 288 | 9,395 | 684 | 874 | 1,843 | 5,994 |
| Open continuously | 575 | 128 | 38 | 61 | 349 | 17,253 | 1,030 | 1,188 | 3,052 | 11,983 |

## Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated |
| **All buildings** | 5,557 | 835 | 697 | 727 | 3,298 | 87,093 | 7,015 | 10,130 | 14,650 | 55,298 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 517 | 696 | 725 | 3,297 | 84,869 | 4,816 | 10,114 | 14,645 | 55,293 |
| Natural gas | 2,933 | 45 | 322 | 465 | 2,101 | 58,725 | 597 | 5,716 | 11,147 | 41,265 |
| Fuel oil | 467 | 12 | 65 | 58 | 332 | 20,200 | 530 | 2,005 | 3,815 | 13,849 |
| District heat | 48 | Q | Q | 7 | 40 | 5,964 | Q | Q | 1,126 | 4,720 |
| District chilled water | 54 | Q | Q | 9 | 41 | 4,608 | Q | Q | 596 | 3,855 |
| Propane | 510 | 19 | 91 | 70 | 330 | 7,706 | 374 | 1,463 | 1,135 | 4,734 |
| Other | 172 | N | 20 | 37 | 115 | 3,826 | N | 340 | 926 | 2,559 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,858 | N | 484 | 463 | 1,911 | 49,030 | N | 6,797 | 9,640 | 32,593 |
| Natural gas | 2,612 | N | 285 | 420 | 1,907 | 49,511 | N | 4,940 | 9,298 | 35,274 |
| Fuel oil | 270 | N | 47 | 36 | 187 | 4,351 | N | 751 | 606 | 2,994 |
| District heat | 48 | N | Q | 7 | 40 | 5,925 | N | Q | 1,126 | 4,683 |
| Propane | 342 | N | 59 | 55 | 228 | 3,067 | N | 490 | 659 | 1,918 |
| Other | 101 | N | Q | Q | 66 | 1,010 | N | Q | Q | 737 |
| **Primary space-heating energy source** | | | | | | | | | | |
| Electricity | 1,819 | N | 369 | 275 | 1,175 | 26,205 | N | 5,013 | 4,903 | 16,289 |
| Natural gas | 2,322 | N | 244 | 370 | 1,709 | 42,988 | N | 4,123 | 7,919 | 30,946 |
| Fuel oil | 205 | N | 31 | 28 | 146 | 2,542 | N | Q | 319 | 1,767 |
| District heat | 47 | N | Q | 7 | 40 | 5,797 | N | Q | 1,067 | 4,614 |
| Propane | 261 | N | 45 | 33 | 183 | 1,948 | N | 370 | 318 | 1,259 |
| Other | 67 | N | Q | Q | 46 | 598 | N | Q | Q | 422 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | N | 697 | 727 | 3,298 | 80,078 | N | 10,130 | 14,650 | 55,298 |
| Buildings with cooling | 4,461 | 189 | 584 | 676 | 3,012 | 79,294 | 2,459 | 9,164 | 14,438 | 53,232 |
| Buildings with water heating | 4,423 | 186 | 549 | 653 | 3,034 | 79,015 | 2,432 | 8,908 | 13,930 | 53,746 |
| Buildings with cooking | 1,589 | 64 | 134 | 244 | 1,146 | 38,546 | 775 | 2,020 | 8,040 | 27,711 |
| Buildings with manufacturing | 259 | Q | 73 | 40 | 121 | 5,078 | Q | 1,247 | 1,037 | 2,506 |
| Buildings with electricity generation | 410 | Q | 35 | 56 | 308 | 25,642 | 487 | 1,696 | 4,679 | 18,779 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | 646 | 113 | 51 | 286 | 7,799 | 4,556 | 966 | 212 | 2,066 |
| 1 to 50 | 1,173 | 75 | 496 | 131 | 471 | 18,891 | 1,034 | 7,528 | 1,893 | 8,435 |
| 51 to 99 | 897 | 22 | 40 | 482 | 353 | 22,728 | 434 | 779 | 11,180 | 10,334 |
| 100 | 2,391 | 92 | 48 | 63 | 2,188 | 37,676 | 991 | 857 | 1,365 | 34,463 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 70 | 63 | Q | N | Q | 322 | 266 | Q | N | Q |
| 1 to 50 | 1,099 | 136 | 325 | 138 | 500 | 12,628 | 1,261 | 4,056 | 1,618 | 5,693 |
| 51 to 99 | 1,666 | 78 | 144 | 405 | 1,039 | 34,814 | 1,242 | 2,861 | 9,145 | 21,566 |
| 100 | 2,222 | 163 | 197 | 169 | 1,692 | 35,726 | 1,522 | 2,939 | 3,807 | 27,458 |
| Building never open/electricity not used | 501 | 395 | 28 | Q | 63 | 3,603 | 2,724 | 253 | Q | 547 |

## Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated | All buildings | Not heated | 1 to 50 percent heated | 51 to 99 percent heated | 100 percent heated |
| **All buildings** | 5,557 | 835 | 697 | 727 | 3,298 | 87,093 | 7,015 | 10,130 | 14,650 | 55,298 |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 628 | N | 81 | 99 | 448 | 11,846 | N | 1,390 | 2,531 | 7,925 |
| Furnaces | 755 | N | 76 | 104 | 575 | 8,654 | N | 931 | 1,628 | 6,095 |
| Individual space heaters | 1,247 | N | 233 | 210 | 805 | 20,766 | N | 2,964 | 4,499 | 13,303 |
| District heat | 48 | N | Q | 7 | 40 | 5,925 | N | Q | 1,126 | 4,683 |
| Boilers | 544 | N | 34 | 102 | 407 | 22,443 | N | 1,016 | 4,532 | 16,895 |
| Packaged heating units | 2,802 | N | 381 | 456 | 1,965 | 49,188 | N | 6,769 | 9,295 | 33,125 |
| Other | 62 | N | Q | 13 | 39 | 1,574 | N | Q | 550 | 980 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 601 | 12 | 39 | 110 | 440 | 30,749 | 295 | 1,555 | 6,253 | 22,646 |
| Regular HVAC maintenance | 3,178 | 99 | 354 | 496 | 2,228 | 69,244 | 1,727 | 6,828 | 12,492 | 48,197 |
| Building automation system (BAS)[2] | 781 | 13 | 58 | 139 | 570 | 37,051 | 540 | 1,910 | 7,654 | 26,946 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | N | 533 | 597 | 2,568 | 63,167 | N | 7,577 | 12,590 | 43,000 |
| Cooling | 3,517 | 125 | 469 | 553 | 2,369 | 62,516 | 1,613 | 7,094 | 12,241 | 41,568 |
| Lighting | 4,757 | 350 | 640 | 684 | 3,082 | 78,594 | 3,639 | 9,381 | 13,524 | 52,050 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled |
| **All buildings** | 5,557 | 1,096 | 1,173 | 897 | 2,391 | 87,093 | 7,799 | 18,891 | 22,728 | 37,676 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 716 | 465 | 310 | 1,286 | 8,041 | 1,917 | 1,430 | 935 | 3,759 |
| 5,001 to 10,000 | 1,229 | 225 | 308 | 236 | 459 | 8,900 | 1,596 | 2,249 | 1,738 | 3,316 |
| 10,001 to 25,000 | 884 | 110 | 248 | 173 | 352 | 14,105 | 1,747 | 3,943 | 2,766 | 5,648 |
| 25,001 to 50,000 | 332 | 30 | 89 | 76 | 137 | 11,917 | 1,105 | 3,123 | 2,679 | 5,011 |
| 50,001 to 100,000 | 199 | 13 | 36 | 58 | 92 | 13,918 | 849 | 2,489 | 4,077 | 6,503 |
| 100,001 to 200,000 | 90 | Q | 17 | 25 | 46 | 12,415 | Q | 2,432 | 3,496 | 6,225 |
| 200,001 to 500,000 | 38 | Q | 8 | 15 | 15 | 10,724 | Q | 2,150 | 4,007 | 4,360 |
| Over 500,000 | 8 | Q | 1 | 3 | 3 | 7,074 | Q | 1,076 | 3,029 | 2,853 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 28 | 42 | 73 | 246 | 12,239 | 428 | 1,810 | 3,532 | 6,469 |
| Food sales | 177 | Q | Q | 46 | 99 | 1,252 | Q | Q | 576 | 502 |
| Food service | 380 | Q | 41 | 85 | 233 | 1,819 | Q | 184 | 449 | 1,080 |
| Health care | 157 | Q | Q | 31 | 114 | 4,155 | Q | Q | 1,021 | 3,020 |
| Inpatient | 10 | N | Q | 2 | 7 | 2,374 | N | Q | 682 | 1,664 |
| Outpatient | 147 | Q | Q | 29 | 107 | 1,781 | Q | Q | 339 | 1,356 |
| Lodging | 158 | Q | 11 | 37 | 97 | 5,826 | Q | 377 | 1,764 | 3,559 |
| Mercantile | 602 | 42 | 129 | 154 | 278 | 11,330 | 209 | 1,480 | 4,324 | 5,317 |
| Retail (other than mall) | 438 | 42 | 110 | 87 | 198 | 5,439 | 209 | 888 | 1,518 | 2,824 |
| Enclosed and strip malls | 164 | N | 18 | 67 | 79 | 5,890 | N | 592 | 2,805 | 2,493 |
| Office | 1,012 | Q | 136 | 237 | 622 | 15,952 | Q | 1,305 | 5,750 | 8,828 |
| Public assembly | 352 | 57 | 56 | 69 | 170 | 5,559 | 324 | 981 | 1,589 | 2,665 |
| Public order and safety | 84 | Q | 32 | 16 | 26 | 1,440 | Q | 290 | 615 | 479 |
| Religious worship | 412 | 36 | 45 | 64 | 266 | 4,557 | 286 | 633 | 1,024 | 2,614 |
| Service | 619 | 183 | 293 | 38 | 104 | 4,630 | 857 | 2,446 | 514 | 813 |
| Warehouse and storage | 796 | 405 | 290 | 29 | 72 | 13,077 | 2,958 | 7,911 | 722 | 1,487 |
| Other | 125 | Q | 41 | 13 | 36 | 2,002 | Q | 654 | 605 | 562 |
| Vacant | 296 | 233 | 29 | Q | 28 | 3,256 | 2,130 | 600 | Q | 281 |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 87 | 100 | 77 | 98 | 3,983 | 896 | 1,161 | 1,110 | 816 |
| 1920 to 1945 | 488 | 121 | 99 | 84 | 184 | 6,025 | 810 | 1,402 | 1,752 | 2,061 |
| 1946 to 1959 | 599 | 122 | 141 | 93 | 243 | 7,381 | 702 | 1,748 | 2,287 | 2,644 |
| 1960 to 1969 | 639 | 100 | 136 | 106 | 297 | 10,362 | 728 | 2,711 | 2,731 | 4,193 |
| 1970 to 1979 | 684 | 121 | 148 | 109 | 306 | 10,846 | 815 | 2,400 | 2,665 | 4,966 |
| 1980 to 1989 | 915 | 185 | 203 | 130 | 397 | 15,230 | 1,220 | 3,285 | 3,805 | 6,921 |
| 1990 to 1999 | 845 | 182 | 157 | 128 | 378 | 13,803 | 1,401 | 2,445 | 4,184 | 5,774 |
| 2000 to 2003 | 375 | 55 | 78 | 63 | 179 | 7,215 | 276 | 1,494 | 1,742 | 3,703 |
| 2004 to 2007 | 347 | 54 | 60 | 61 | 172 | 6,524 | 453 | 1,220 | 1,403 | 3,448 |
| 2008 to 2012 | 303 | 68 | 51 | 46 | 137 | 5,723 | 498 | 1,026 | 1,050 | 3,150 |

## Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled |
| **All buildings** | 5,557 | 1,096 | 1,173 | 897 | 2,391 | 87,093 | 7,799 | 18,891 | 22,728 | 37,676 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 213 | 196 | 156 | 240 | 15,534 | 1,585 | 3,558 | 5,081 | 5,311 |
| New England | 302 | 115 | 57 | 57 | 72 | 4,302 | 819 | 1,019 | 1,323 | 1,141 |
| Middle Atlantic | 504 | 99 | 139 | 99 | 168 | 11,232 | 765 | 2,539 | 3,758 | 4,170 |
| Midwest | 1,237 | 267 | 281 | 177 | 512 | 18,919 | 1,776 | 4,741 | 4,697 | 7,706 |
| East North Central | 735 | 134 | 174 | 112 | 314 | 12,742 | 1,067 | 3,289 | 3,408 | 4,977 |
| West North Central | 502 | 133 | 107 | 65 | 197 | 6,178 | 709 | 1,451 | 1,289 | 2,728 |
| South | 2,247 | 355 | 422 | 330 | 1,139 | 34,279 | 2,545 | 6,189 | 8,462 | 17,083 |
| South Atlantic | 1,091 | 156 | 198 | 171 | 567 | 17,981 | 887 | 3,237 | 4,695 | 9,162 |
| East South Central | 370 | 35 | 62 | 60 | 213 | 4,904 | 194 | 969 | 1,642 | 2,098 |
| West South Central | 786 | 164 | 163 | 99 | 359 | 11,394 | 1,464 | 1,982 | 2,126 | 5,823 |
| West | 1,267 | 260 | 273 | 234 | 500 | 18,360 | 1,894 | 4,403 | 4,487 | 7,576 |
| Mountain | 338 | 79 | 54 | 35 | 171 | 4,981 | 492 | 828 | 1,054 | 2,608 |
| Pacific | 929 | 181 | 220 | 199 | 329 | 13,379 | 1,402 | 3,576 | 3,434 | 4,968 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 533 | 454 | 316 | 727 | 31,898 | 3,670 | 7,561 | 8,314 | 12,354 |
| Mixed-humid | 1,743 | 262 | 344 | 282 | 856 | 27,873 | 1,508 | 5,220 | 8,333 | 12,812 |
| Mixed-dry/Hot-dry | 837 | 155 | Q | 160 | 309 | 12,037 | 1,150 | 3,505 | 2,734 | 4,648 |
| Hot-humid | 799 | 100 | 144 | 105 | 450 | 12,831 | 1,208 | 2,191 | 2,562 | 6,871 |
| Marine | 147 | Q | 17 | Q | 49 | 2,454 | 263 | 415 | 785 | 990 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 882 | 782 | 482 | 1,690 | 39,809 | 5,653 | 10,371 | 7,750 | 16,035 |
| Two | 1,158 | 164 | 275 | 227 | 492 | 20,206 | 1,194 | 5,511 | 4,834 | 8,666 |
| Three | 374 | 36 | 85 | 121 | 132 | 8,140 | 405 | 1,378 | 2,590 | 3,766 |
| Four to nine | 177 | 14 | 30 | 61 | 72 | 13,535 | 499 | 1,426 | 4,713 | 6,896 |
| Ten or more | 13 | Q | Q | 6 | 5 | 5,404 | Q | Q | 2,840 | 2,313 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 960 | 593 | 321 | 1,018 | 17,751 | 6,156 | 4,108 | 2,234 | 5,253 |
| 5 to 9 | 1,085 | 86 | 254 | 169 | 576 | 8,973 | 735 | 2,862 | 1,525 | 3,851 |
| 10 to 19 | 731 | 32 | 175 | 174 | 351 | 9,623 | 433 | 3,207 | 2,227 | 3,757 |
| 20 to 49 | 513 | 15 | 112 | 130 | 256 | 14,514 | 295 | 3,724 | 3,822 | 6,674 |
| 50 to 99 | 206 | Q | 26 | 64 | 114 | 13,476 | Q | 2,240 | 4,519 | 6,565 |
| 100 to 249 | 93 | Q | 12 | 27 | 54 | 10,941 | Q | 1,977 | 3,543 | 5,394 |
| 250 or more | 37 | N | 2 | 12 | 23 | 11,815 | N | 775 | 4,858 | 6,182 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 459 | 158 | 103 | 429 | 8,220 | 3,137 | 1,284 | 972 | 2,827 |
| 40 to 48 | 1,346 | 178 | 364 | 223 | 582 | 15,828 | 1,316 | 4,369 | 4,097 | 6,046 |
| 49 to 60 | 1,244 | 160 | 351 | 189 | 544 | 20,529 | 1,233 | 5,952 | 4,373 | 8,972 |
| 61 to 84 | 764 | 95 | 162 | 176 | 332 | 15,867 | 697 | 3,508 | 4,967 | 6,695 |
| 85 to 167 | 479 | 60 | 70 | 103 | 245 | 9,395 | 530 | 1,874 | 2,759 | 4,231 |
| Open continuously | 575 | 144 | 68 | 104 | 259 | 17,253 | 886 | 1,903 | 5,560 | 8,904 |

## Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled |
| **All buildings** | 5,557 | 1,096 | 1,173 | 897 | 2,391 | 87,093 | 7,799 | 18,891 | 22,728 | 37,676 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 773 | 1,173 | 897 | 2,391 | 84,869 | 5,575 | 18,891 | 22,728 | 37,676 |
| Natural gas | 2,933 | 233 | 697 | 592 | 1,411 | 58,725 | 1,826 | 13,031 | 17,106 | 26,762 |
| Fuel oil | 467 | 106 | 110 | 82 | 169 | 20,200 | 891 | 3,199 | 7,075 | 9,035 |
| District heat | 48 | Q | 4 | 17 | 22 | 5,964 | Q | 340 | 2,717 | 2,845 |
| District chilled water | 54 | N | Q | 18 | 36 | 4,608 | N | Q | 1,953 | 2,569 |
| Propane | 510 | 90 | 164 | 75 | 181 | 7,706 | 645 | 2,747 | 1,669 | 2,646 |
| Other | 172 | 46 | 53 | 26 | 47 | 3,826 | 253 | 1,204 | 1,245 | 1,123 |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 4,413 | N | 1,172 | 885 | 2,355 | 76,034 | N | 18,815 | 21,607 | 35,612 |
| Natural gas | 12 | N | Q | 1 | 9 | 732 | N | Q | 166 | 415 |
| District chilled water | 54 | N | Q | 18 | 36 | 4,608 | N | Q | 1,953 | 2,569 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 451 | 1,098 | 875 | 2,299 | 80,078 | 3,243 | 17,856 | 22,293 | 36,685 |
| Buildings with cooling | 4,461 | N | 1,173 | 897 | 2,391 | 79,294 | N | 18,891 | 22,728 | 37,676 |
| Buildings with water heating | 4,423 | 326 | 1,028 | 835 | 2,235 | 79,015 | 2,601 | 17,607 | 21,965 | 36,842 |
| Buildings with cooking | 1,589 | 92 | 267 | 344 | 886 | 38,546 | 859 | 4,886 | 13,152 | 19,650 |
| Buildings with manufacturing | 259 | 41 | 113 | 37 | 68 | 5,078 | 396 | 2,390 | 1,122 | 1,170 |
| Buildings with electricity generation | 410 | 25 | 81 | 96 | 208 | 25,642 | 292 | 3,441 | 9,057 | 12,852 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 835 | 646 | 75 | 22 | 92 | 7,015 | 4,556 | 1,034 | 434 | 991 |
| 1 to 50 | 697 | 113 | 496 | 40 | 48 | 10,130 | 966 | 7,528 | 779 | 857 |
| 51 to 99 | 727 | 51 | 131 | 482 | 63 | 14,650 | 212 | 1,893 | 11,180 | 1,365 |
| 100 | 3,298 | 286 | 471 | 353 | 2,188 | 55,298 | 2,066 | 8,435 | 10,334 | 34,463 |
| **Percent lit when open** | | | | | | | | | | |
| Zero | 70 | 63 | Q | N | Q | 322 | 246 | Q | N | Q |
| 1 to 50 | 1,099 | 196 | 451 | 135 | 316 | 12,628 | 1,688 | 5,274 | 1,921 | 3,746 |
| 51 to 99 | 1,666 | 111 | 294 | 517 | 744 | 34,814 | 1,039 | 6,153 | 14,102 | 13,519 |
| 100 | 2,222 | 283 | 405 | 235 | 1,298 | 35,726 | 1,750 | 7,217 | 6,558 | 20,202 |
| Building never open/electricity not used | 501 | 443 | Q | Q | 31 | 3,603 | 3,076 | Q | Q | 187 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | N | 403 | 312 | 831 | 14,765 | N | 5,109 | 3,376 | 6,280 |
| Heat pumps | 692 | N | 146 | 147 | 399 | 12,538 | N | 2,214 | 3,930 | 6,393 |
| Individual air conditioners | 709 | N | 326 | 123 | 260 | 12,420 | N | 4,303 | 3,662 | 4,455 |
| District chilled water | 54 | N | Q | 18 | 36 | 4,608 | N | Q | 1,953 | 2,569 |
| Central chillers | 163 | N | 8 | 58 | 97 | 17,041 | N | 918 | 7,090 | 9,033 |
| Packaged air conditioning units | 1,909 | N | 394 | 435 | 1,081 | 45,153 | N | 10,569 | 13,777 | 20,807 |
| Swamp coolers | 109 | N | 36 | 20 | 53 | 1,918 | N | 646 | 554 | 718 |
| Other | Q | N | Q | Q | Q | 328 | N | Q | Q | Q |

## Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled | All buildings | Not cooled | 1 to 50 percent cooled | 51 to 99 percent cooled | 100 percent cooled |
| **All buildings** | 5,557 | 1,096 | 1,173 | 897 | 2,391 | 87,093 | 7,799 | 18,891 | 22,728 | 37,676 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 601 | N | 92 | 170 | 339 | 30,749 | N | 3,816 | 11,589 | 15,344 |
| Regular HVAC maintenance | 3,178 | 155 | 649 | 677 | 1,696 | 69,244 | 1,406 | 13,943 | 20,197 | 33,699 |
| Building automation system (BAS)[2] | 781 | 24 | 112 | 196 | 448 | 37,051 | 359 | 3,670 | 12,915 | 20,106 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | 295 | 880 | 709 | 1,814 | 63,167 | 2,081 | 14,182 | 18,109 | 28,795 |
| Cooling | 3,517 | N | 925 | 711 | 1,881 | 62,516 | N | 14,471 | 18,352 | 29,693 |
| Lighting | 4,757 | 561 | 1,108 | 853 | 2,234 | 78,594 | 4,083 | 17,923 | 21,167 | 35,421 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit |
| **All buildings** | 5,557 | 570 | 1,099 | 1,666 | 2,222 | 87,093 | 3,925 | 12,628 | 34,814 | 35,726 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 380 | 564 | 638 | 1,196 | 8,041 | 963 | 1,680 | 1,924 | 3,474 |
| 5,001 to 10,000 | 1,229 | 117 | 259 | 418 | 436 | 8,900 | 810 | 1,879 | 3,060 | 3,151 |
| 10,001 to 25,000 | 884 | 53 | 182 | 331 | 317 | 14,105 | 885 | 2,824 | 5,326 | 5,070 |
| 25,001 to 50,000 | 332 | Q | 54 | 126 | 141 | 11,917 | Q | 1,885 | 4,519 | 5,071 |
| 50,001 to 100,000 | 199 | Q | 29 | 92 | 72 | 13,918 | Q | 1,956 | 6,445 | 5,043 |
| 100,001 to 200,000 | 90 | Q | 8 | 40 | 41 | 12,415 | Q | 1,141 | 5,539 | 5,560 |
| 200,001 to 500,000 | 38 | Q | 3 | 18 | 16 | 10,724 | Q | 837 | 5,220 | 4,552 |
| Over 500,000 | 8 | Q | Q | 3 | 4 | 7,074 | Q | Q | 2,781 | 3,806 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | N | 30 | 126 | 233 | 12,239 | N | 530 | 5,777 | 5,932 |
| Food sales | 177 | N | Q | 54 | 104 | 1,252 | N | Q | 349 | 815 |
| Food service | 380 | N | 57 | 104 | 219 | 1,819 | N | 275 | 596 | 949 |
| Health care | 157 | N | Q | 68 | 73 | 4,155 | N | Q | 1,695 | 2,330 |
| Inpatient | 10 | N | Q | 3 | 7 | 2,374 | N | Q | 958 | 1,392 |
| Outpatient | 147 | N | Q | 65 | 67 | 1,781 | N | Q | 737 | 938 |
| Lodging | 158 | Q | 51 | 47 | 60 | 5,826 | Q | 1,059 | 2,596 | 2,163 |
| Mercantile | 602 | Q | 73 | 275 | 251 | 11,330 | Q | 695 | 6,509 | 4,116 |
| Retail (other than mall) | 438 | Q | 65 | 120 | 249 | 5,439 | Q | 431 | 1,322 | 3,678 |
| Enclosed and strip malls | 164 | N | Q | 155 | Q | 5,890 | N | Q | 5,188 | 438 |
| Office | 1,012 | N | 227 | 399 | 386 | 15,952 | N | 1,732 | 6,723 | 7,497 |
| Public assembly | 352 | Q | 84 | 120 | 135 | 5,559 | Q | 728 | 2,699 | 2,093 |
| Public order and safety | 84 | Q | Q | 24 | 32 | 1,440 | Q | Q | 578 | 650 |
| Religious worship | 412 | Q | 101 | 146 | 163 | 4,557 | Q | 1,665 | 1,654 | 1,236 |
| Service | 619 | Q | 121 | 148 | 311 | 4,630 | Q | 813 | 1,240 | 2,304 |
| Warehouse and storage | 796 | 233 | 239 | 126 | 197 | 13,077 | 1,016 | 3,750 | 3,431 | 4,881 |
| Other | 125 | Q | 32 | 28 | 53 | 2,002 | Q | 323 | 900 | 708 |
| Vacant | 296 | 260 | 30 | Q | Q | 3,256 | 2,479 | 656 | Q | Q |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 47 | 117 | 112 | 86 | 3,983 | 335 | 1,278 | 1,529 | 841 |
| 1920 to 1945 | 488 | 59 | 120 | 132 | 178 | 6,025 | 376 | 884 | 2,193 | 2,572 |
| 1946 to 1959 | 599 | 78 | 130 | 183 | 208 | 7,381 | 321 | 1,351 | 3,215 | 2,494 |
| 1960 to 1969 | 639 | 42 | 123 | 217 | 258 | 10,362 | 329 | 1,266 | 4,594 | 4,174 |
| 1970 to 1979 | 684 | 60 | 124 | 232 | 268 | 10,846 | 539 | 1,313 | 4,445 | 4,549 |
| 1980 to 1989 | 915 | 88 | 179 | 249 | 399 | 15,230 | 563 | 2,222 | 6,151 | 6,294 |
| 1990 to 1999 | 845 | 115 | 120 | 223 | 387 | 13,803 | 1,002 | 1,395 | 4,726 | 6,680 |
| 2000 to 2003 | 375 | Q | 70 | 115 | 164 | 7,215 | Q | 1,008 | 3,399 | 2,683 |
| 2004 to 2007 | 347 | Q | 65 | 111 | 143 | 6,524 | Q | 1,057 | 2,520 | 2,801 |
| 2008 to 2012 | 303 | Q | 52 | 92 | 130 | 5,723 | Q | 854 | 2,043 | 2,637 |

## Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit |
| **All buildings** | 5,557 | 570 | 1,099 | 1,666 | 2,222 | 87,093 | 3,925 | 12,628 | 34,814 | 35,726 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 68 | 170 | 259 | 308 | 15,534 | 480 | 2,097 | 6,288 | 6,670 |
| New England | 302 | Q | 55 | 115 | 98 | 4,302 | Q | 677 | 2,099 | 1,286 |
| Middle Atlantic | 504 | 34 | 115 | 145 | 210 | 11,232 | 240 | 1,420 | 4,189 | 5,384 |
| Midwest | 1,237 | 136 | 292 | 382 | 427 | 18,919 | 851 | 2,870 | 7,932 | 7,266 |
| East North Central | 735 | 67 | 171 | 245 | 252 | 12,742 | 491 | 1,840 | 5,616 | 4,794 |
| West North Central | 502 | 69 | 121 | 137 | 175 | 6,178 | 360 | 1,030 | 2,315 | 2,472 |
| South | 2,247 | 242 | 379 | 614 | 1,011 | 34,279 | 1,832 | 4,755 | 13,288 | 14,405 |
| South Atlantic | 1,091 | 101 | 184 | 319 | 486 | 17,981 | 588 | 2,375 | 7,284 | 7,734 |
| East South Central | 370 | 28 | 60 | 80 | 201 | 4,904 | Q | 817 | 1,665 | 2,233 |
| West South Central | 786 | 112 | 135 | 215 | 324 | 11,394 | 1,055 | 1,562 | 4,339 | 4,438 |
| West | 1,267 | 123 | 258 | 411 | 476 | 18,360 | 761 | 2,907 | 7,307 | 7,385 |
| Mountain | 338 | 52 | 57 | 109 | 121 | 4,981 | 314 | 541 | 1,847 | 2,279 |
| Pacific | 929 | 71 | 201 | 302 | 355 | 13,379 | 447 | 2,366 | 5,460 | 5,107 |
| **Climate region[2]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 230 | 449 | 642 | 710 | 31,898 | 1,479 | 4,637 | 13,284 | 12,498 |
| Mixed-humid | 1,743 | 169 | 300 | 494 | 781 | 27,873 | 846 | 3,702 | 10,873 | 12,453 |
| Mixed-dry/Hot-dry | 837 | 67 | 186 | 248 | 336 | 12,037 | 531 | 2,225 | 4,849 | 4,432 |
| Hot-humid | 799 | 89 | 134 | 229 | 347 | 12,831 | 993 | 1,689 | 4,790 | 5,359 |
| Marine | 147 | Q | 29 | 53 | 48 | 2,454 | Q | 377 | 1,018 | 984 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 472 | 647 | 1,042 | 1,675 | 39,809 | 2,814 | 5,680 | 14,604 | 16,711 |
| Two | 1,158 | 72 | 301 | 399 | 386 | 20,206 | 542 | 3,641 | 7,751 | 8,271 |
| Three | 374 | Q | 110 | 144 | 99 | 8,140 | Q | 1,600 | 3,465 | 2,918 |
| Four to nine | 177 | 5 | 41 | 74 | 56 | 13,535 | 368 | 1,571 | 6,414 | 5,181 |
| Ten or more | 13 | Q | Q | 7 | 5 | 5,404 | Q | Q | 2,579 | 2,644 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 565 | 754 | 616 | 957 | 17,751 | 3,866 | 5,292 | 4,069 | 4,524 |
| 5 to 9 | 1,085 | Q | 201 | 372 | 508 | 8,973 | Q | 2,241 | 3,117 | 3,567 |
| 10 to 19 | 731 | Q | 83 | 284 | 364 | 9,623 | Q | 1,545 | 3,883 | 4,186 |
| 20 to 49 | 513 | Q | 45 | 234 | 233 | 14,514 | Q | 1,750 | 6,751 | 6,011 |
| 50 to 99 | 206 | N | 12 | 103 | 90 | 13,476 | N | 908 | 6,773 | 5,795 |
| 100 to 249 | 93 | N | 3 | 44 | 46 | 10,941 | N | 518 | 5,492 | 4,932 |
| 250 or more | 37 | N | 1 | 13 | 23 | 11,815 | N | 375 | 4,729 | 6,711 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 389 | 216 | 223 | 321 | 8,220 | 3,077 | 1,436 | 1,745 | 1,962 |
| 40 to 48 | 1,346 | Q | 352 | 435 | 528 | 15,828 | Q | 3,438 | 6,579 | 5,676 |
| 49 to 60 | 1,244 | Q | 217 | 419 | 587 | 20,529 | Q | 2,849 | 7,798 | 9,754 |
| 61 to 84 | 764 | Q | 102 | 292 | 337 | 15,867 | Q | 1,643 | 8,185 | 5,927 |
| 85 to 167 | 479 | Q | 60 | 158 | 239 | 9,395 | Q | 928 | 3,748 | 4,656 |
| Open continuously | 575 | 77 | 151 | 138 | 209 | 17,253 | 409 | 2,335 | 6,758 | 7,752 |

## Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit |
| **All buildings** | 5,557 | 570 | 1,099 | 1,666 | 2,222 | 87,093 | 3,925 | 12,628 | 34,814 | 35,726 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 247 | 1,099 | 1,666 | 2,222 | 84,869 | 1,700 | 12,628 | 34,814 | 35,726 |
| Natural gas | 2,933 | 55 | 562 | 1,051 | 1,265 | 58,725 | 581 | 7,333 | 25,435 | 25,376 |
| Fuel oil | 467 | Q | 93 | 155 | 208 | 20,200 | Q | 1,820 | 8,903 | 9,351 |
| District heat | 48 | Q | 8 | 18 | 21 | 5,964 | Q | 489 | 2,799 | 2,567 |
| District chilled water | 54 | Q | Q | 21 | 24 | 4,608 | Q | Q | 2,214 | 1,976 |
| Propane | 510 | Q | 112 | 155 | 224 | 7,706 | Q | 1,231 | 2,997 | 3,410 |
| Other | 172 | Q | 45 | 53 | 69 | 3,826 | Q | 487 | 1,608 | 1,689 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 112 | 963 | 1,588 | 2,059 | 80,078 | 935 | 11,367 | 33,572 | 34,204 |
| Buildings with cooling | 4,461 | 64 | 902 | 1,556 | 1,939 | 79,294 | 602 | 10,941 | 33,775 | 33,976 |
| Buildings with water heating | 4,423 | 57 | 900 | 1,538 | 1,927 | 79,015 | 602 | 10,877 | 33,513 | 34,023 |
| Buildings with cooking | 1,589 | Q | 311 | 567 | 687 | 38,546 | Q | 3,696 | 17,766 | 16,991 |
| Buildings with manufacturing | 259 | Q | 63 | 84 | 106 | 5,078 | Q | 870 | 2,038 | 2,137 |
| Buildings with electricity generation | 410 | Q | 65 | 157 | 183 | 25,642 | Q | 1,811 | 11,756 | 12,007 |
| **Percent of floorspace heated** | | | | | | | | | | |
| Not heated | 835 | 458 | 136 | 78 | 163 | 7,015 | 2,990 | 1,261 | 1,242 | 1,522 |
| 1 to 50 | 697 | 31 | 325 | 144 | 197 | 10,130 | 274 | 4,056 | 2,861 | 2,939 |
| 51 to 99 | 727 | Q | 138 | 405 | 169 | 14,650 | Q | 1,618 | 9,145 | 3,807 |
| 100 | 3,298 | 67 | 500 | 1,039 | 1,692 | 55,298 | 581 | 5,693 | 21,566 | 27,458 |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | 506 | 196 | 111 | 283 | 7,799 | 3,323 | 1,688 | 1,039 | 1,750 |
| 1 to 50 | 1,173 | Q | 451 | 294 | 405 | 18,891 | Q | 5,274 | 6,153 | 7,217 |
| 51 to 99 | 897 | Q | 135 | 517 | 235 | 22,728 | Q | 1,921 | 14,102 | 6,558 |
| 100 | 2,391 | 32 | 316 | 744 | 1,298 | 37,676 | 208 | 3,746 | 13,519 | 20,202 |
| **Percent lit during off hours** | | | | | | | | | | |
| Zero | 2,489 | 193 | 620 | 610 | 1,066 | 24,746 | 1,246 | 5,450 | 6,900 | 11,150 |
| 1 to 50 | 2,441 | 38 | 449 | 980 | 973 | 50,753 | 394 | 6,702 | 24,449 | 19,207 |
| 51 to 100 | 202 | Q | Q | 57 | 141 | 6,926 | Q | Q | 2,942 | 3,908 |
| Building always open with no "off hours" | 102 | Q | 26 | 19 | 41 | 2,443 | Q | 406 | 523 | 1,461 |
| Electricity not used | 323 | 323 | N | N | N | 2,225 | 2,225 | N | N | N |
| **Lighting equipment types (more than one may apply)** | | | | | | | | | | |
| Incandescent | 1,826 | Q | 391 | 724 | 699 | 38,406 | Q | 4,867 | 19,106 | 14,283 |
| Standard fluorescent | 4,649 | 30 | 985 | 1,570 | 2,065 | 80,081 | 335 | 11,798 | 33,816 | 34,132 |
| Compact fluorescent | 2,302 | Q | 478 | 920 | 895 | 53,816 | Q | 6,202 | 25,376 | 22,087 |
| High-intensity discharge (HID) | 525 | Q | 78 | 227 | 220 | 23,396 | Q | 2,418 | 11,003 | 9,929 |
| Halogen | 905 | Q | 165 | 413 | 326 | 28,059 | Q | 2,884 | 15,045 | 10,084 |
| LED | 473 | Q | 76 | 222 | 174 | 22,071 | Q | 1,937 | 11,847 | 8,278 |
| Other | 10 | N | Q | Q | Q | 446 | N | Q | Q | Q |

## Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit | All buildings | Not lit when open[1] | 1 to 50 percent lit | 51 to 99 percent lit | 100 percent lit |
| **All buildings** | 5,557 | 570 | 1,099 | 1,666 | 2,222 | 87,093 | 3,925 | 12,628 | 34,814 | 35,726 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | | | |
| Multipaned windows | 3,012 | 127 | 561 | 1,069 | 1,255 | 60,362 | 1,330 | 7,447 | 26,198 | 25,386 |
| Tinted window glass | 1,875 | 61 | 310 | 708 | 796 | 45,025 | 1,101 | 5,092 | 20,167 | 18,666 |
| Reflective window glass | 549 | Q | 102 | 214 | 223 | 15,908 | Q | 1,736 | 7,595 | 6,406 |
| External overhangs or awnings | 1,867 | 58 | 326 | 742 | 741 | 32,188 | 412 | 3,938 | 15,506 | 12,332 |
| Skylights or atriums | 591 | 19 | 113 | 258 | 202 | 22,261 | 451 | 2,214 | 11,195 | 8,401 |
| Light scheduling | 918 | Q | 136 | 417 | 361 | 30,263 | Q | 2,559 | 15,354 | 12,299 |
| Occupancy sensors | 813 | Q | 107 | 400 | 303 | 35,871 | Q | 3,557 | 17,580 | 14,648 |
| Multi-level lighting or dimming | 349 | Q | 67 | 173 | 109 | 14,534 | Q | 1,336 | 7,825 | 5,349 |
| Daylight harvesting | 125 | Q | 22 | 52 | 49 | 6,114 | Q | 614 | 2,961 | 2,524 |
| Demand responsive lighting | 176 | N | 49 | 80 | 47 | 4,738 | N | 656 | 2,791 | 1,291 |
| Building automation system (BAS) for lighting[3] | 208 | Q | 11 | 106 | 90 | 12,068 | Q | 542 | 6,670 | 4,832 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | 68 | 743 | 1,300 | 1,588 | 63,167 | 679 | 8,662 | 27,700 | 26,127 |
| Cooling | 3,517 | 48 | 693 | 1,284 | 1,491 | 62,516 | 498 | 8,345 | 27,927 | 25,746 |
| Lighting | 4,757 | N | 995 | 1,631 | 2,131 | 78,594 | N | 11,135 | 33,897 | 33,563 |

[1]*Not lit when open* includes buildings that were zero percent lit when open, buildings that were never open, and buildings that did not use any electricity. Some buildings that were never open, such as vacant buildings, still used some lighting.

[2]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).

[3]In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B37. Heated, cooled, and lit buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Heated buildings | | Cooled buildings | | Lit buildings | |
| | Total floor-space in all buildings | Total floor-space[1] | Heated floor-space[2] | Total floor-space[1] | Cooled floor-space[2] | Total floor-space[1] | Lit floor-space[2] |
| **All buildings** | 87,093 | 80,078 | 70,053 | 79,294 | 60,998 | 83,569 | 68,729 |
| **Building floorspace (square feet)** | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,699 | 5,833 | 6,124 | 4,916 | 7,130 | 5,590 |
| 5,001 to 10,000 | 8,900 | 7,590 | 6,316 | 7,304 | 5,327 | 8,152 | 6,288 |
| 10,001 to 25,000 | 14,105 | 12,744 | 10,540 | 12,357 | 8,840 | 13,250 | 10,251 |
| 25,001 to 50,000 | 11,917 | 10,911 | 9,638 | 10,813 | 7,968 | 11,542 | 9,329 |
| 50,001 to 100,000 | 13,918 | 13,114 | 11,649 | 13,069 | 10,351 | 13,564 | 11,088 |
| 100,001 to 200,000 | 12,415 | 11,941 | 10,819 | 12,152 | 9,763 | 12,282 | 10,539 |
| 200,001 to 500,000 | 10,724 | 10,348 | 9,124 | 10,518 | 8,161 | 10,634 | 9,236 |
| Over 500,000 | 7,074 | 6,730 | 6,133 | 6,958 | 5,671 | 7,014 | 6,407 |
| **Principal building activity** | | | | | | | |
| Education | 12,239 | 12,099 | 11,701 | 11,811 | 9,910 | 12,239 | 11,005 |
| Food sales | 1,252 | 1,196 | 1,092 | 1,190 | 987 | 1,252 | 1,162 |
| Food service | 1,819 | 1,762 | 1,589 | 1,712 | 1,508 | 1,819 | 1,533 |
| Health care | 4,155 | 4,109 | 3,973 | 4,148 | 3,935 | 4,155 | 3,800 |
| Inpatient | 2,374 | 2,354 | 2,314 | 2,374 | 2,275 | 2,374 | 2,234 |
| Outpatient | 1,781 | 1,754 | 1,659 | 1,774 | 1,660 | 1,781 | 1,565 |
| Lodging | 5,826 | 5,696 | 5,427 | 5,700 | 5,176 | 5,817 | 4,669 |
| Mercantile | 11,330 | 10,794 | 9,620 | 11,121 | 9,380 | 11,320 | 9,875 |
| Retail (other than mall) | 5,439 | 5,088 | 4,606 | 5,230 | 4,351 | 5,430 | 4,876 |
| Enclosed and strip malls | 5,890 | 5,706 | 5,014 | 5,890 | 5,029 | 5,890 | 4,999 |
| Office | 15,952 | 15,753 | 14,675 | 15,882 | 14,095 | 15,952 | 13,696 |
| Public assembly | 5,559 | 5,323 | 4,795 | 5,235 | 4,276 | 5,527 | 4,622 |
| Public order and safety | 1,440 | 1,391 | 1,293 | 1,384 | 1,036 | 1,414 | 1,193 |
| Religious worship | 4,557 | 4,511 | 4,074 | 4,271 | 3,586 | 4,557 | 3,099 |
| Service | 4,630 | 4,157 | 3,449 | 3,773 | 1,859 | 4,379 | 3,563 |
| Warehouse and storage | 13,077 | 9,987 | 5,997 | 10,120 | 3,426 | 12,079 | 8,621 |
| Other | 2,002 | 1,886 | 1,519 | 1,820 | 1,242 | 1,930 | 1,585 |
| Vacant | 3,256 | 1,415 | 850 | 1,125 | 582 | 1,128 | 305 |
| **Year constructed** | | | | | | | |
| Before 1920 | 3,983 | 3,583 | 2,931 | 3,087 | 1,995 | 3,715 | 2,520 |
| 1920 to 1945 | 6,025 | 5,527 | 4,944 | 5,215 | 3,828 | 5,774 | 4,680 |
| 1946 to 1959 | 7,381 | 6,895 | 6,029 | 6,679 | 4,967 | 7,087 | 5,654 |
| 1960 to 1969 | 10,362 | 9,730 | 8,688 | 9,634 | 7,046 | 10,061 | 8,422 |
| 1970 to 1979 | 10,846 | 10,045 | 8,771 | 10,031 | 7,721 | 10,354 | 8,655 |
| 1980 to 1989 | 15,230 | 13,723 | 11,608 | 14,011 | 10,862 | 14,688 | 12,051 |
| 1990 to 1999 | 13,803 | 12,389 | 10,880 | 12,402 | 9,830 | 12,856 | 11,075 |
| 2000 to 2003 | 7,215 | 6,707 | 5,984 | 6,939 | 5,522 | 7,100 | 5,800 |
| 2004 to 2007 | 6,524 | 5,972 | 5,255 | 6,071 | 4,897 | 6,378 | 5,256 |
| 2008 to 2012 | 5,723 | 5,505 | 4,963 | 5,225 | 4,331 | 5,556 | 4,615 |

## Table B37. Heated, cooled, and lit buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Heated buildings | | Cooled buildings | | Lit buildings | |
| | Total floor-space in all buildings | Total floor-space[1] | Heated floor-space[2] | Total floor-space[1] | Cooled floor-space[2] | Total floor-space[1] | Lit floor-space[2] |
| **All buildings** | 87,093 | 80,078 | 70,053 | 79,294 | 60,998 | 83,569 | 68,729 |
| **Census region and division** | | | | | | | |
| Northeast | 15,534 | 15,053 | 13,754 | 13,949 | 10,340 | 15,071 | 12,570 |
| New England | 4,302 | 4,090 | 3,700 | 3,482 | 2,461 | 4,062 | 3,236 |
| Middle Atlantic | 11,232 | 10,963 | 10,054 | 10,467 | 7,879 | 11,009 | 9,334 |
| Midwest | 18,919 | 18,055 | 16,707 | 17,144 | 12,736 | 18,190 | 14,834 |
| East North Central | 12,742 | 12,240 | 11,467 | 11,675 | 8,574 | 12,323 | 10,072 |
| West North Central | 6,178 | 5,815 | 5,241 | 5,469 | 4,163 | 5,867 | 4,762 |
| South | 34,279 | 30,499 | 26,530 | 31,734 | 25,647 | 32,621 | 27,067 |
| South Atlantic | 17,981 | 15,883 | 13,817 | 17,094 | 13,891 | 17,449 | 14,594 |
| East South Central | 4,904 | 4,692 | 4,169 | 4,710 | 3,691 | 4,726 | 3,917 |
| West South Central | 11,394 | 9,923 | 8,544 | 9,931 | 8,065 | 10,446 | 8,556 |
| West | 18,360 | 16,471 | 13,061 | 16,467 | 12,274 | 17,687 | 14,257 |
| Mountain | 4,981 | 4,704 | 4,157 | 4,489 | 3,667 | 4,677 | 3,974 |
| Pacific | 13,379 | 11,767 | 8,904 | 11,978 | 8,607 | 13,010 | 10,283 |
| **Climate region[3]** | | | | | | | |
| Very cold/Cold | 31,898 | 30,469 | 28,057 | 28,228 | 21,019 | 30,542 | 25,067 |
| Mixed-humid | 27,873 | 26,716 | 24,044 | 26,365 | 21,026 | 27,096 | 22,812 |
| Mixed-dry/Hot-dry | 12,037 | 10,484 | 7,628 | 10,887 | 7,692 | 11,670 | 9,059 |
| Hot-humid | 12,831 | 10,090 | 8,390 | 11,624 | 9,529 | 11,881 | 9,851 |
| Marine | 2,454 | 2,319 | 1,934 | 2,190 | 1,732 | 2,381 | 1,939 |
| **Number of floors** | | | | | | | |
| One | 39,809 | 34,513 | 28,983 | 34,156 | 24,766 | 37,113 | 30,598 |
| Two | 20,206 | 19,411 | 16,889 | 19,012 | 13,955 | 19,726 | 15,943 |
| Three | 8,140 | 7,896 | 7,187 | 7,734 | 6,213 | 8,055 | 6,239 |
| Four to nine | 13,535 | 12,992 | 12,096 | 13,036 | 11,248 | 13,307 | 11,040 |
| Ten or more | 5,404 | 5,265 | 4,897 | 5,356 | 4,816 | 5,368 | 4,910 |
| **Number of workers (main shift)** | | | | | | | |
| Fewer than 5 | 17,751 | 12,931 | 10,634 | 11,595 | 8,033 | 14,286 | 9,312 |
| 5 to 9 | 8,973 | 8,492 | 6,675 | 8,238 | 5,710 | 8,925 | 6,849 |
| 10 to 19 | 9,623 | 8,970 | 7,512 | 9,190 | 6,270 | 9,614 | 7,822 |
| 20 to 49 | 14,514 | 14,126 | 12,147 | 14,219 | 10,636 | 14,512 | 12,133 |
| 50 to 99 | 13,476 | 13,184 | 12,156 | 13,323 | 10,931 | 13,476 | 11,911 |
| 100 to 249 | 10,941 | 10,805 | 10,065 | 10,913 | 8,849 | 10,941 | 9,761 |
| 250 or more | 11,815 | 11,570 | 10,864 | 11,815 | 10,570 | 11,815 | 10,941 |
| **Weekly operating hours** | | | | | | | |
| Fewer than 40 | 8,220 | 5,763 | 4,938 | 5,083 | 3,914 | 5,514 | 3,906 |
| 40 to 48 | 15,828 | 14,867 | 12,442 | 14,512 | 10,368 | 15,693 | 12,229 |
| 49 to 60 | 20,529 | 19,365 | 16,689 | 19,297 | 14,009 | 20,401 | 16,966 |
| 61 to 84 | 15,867 | 15,148 | 13,308 | 15,170 | 11,661 | 15,773 | 13,351 |
| 85 to 167 | 9,395 | 8,711 | 7,790 | 8,864 | 6,923 | 9,336 | 8,092 |
| Open continuously | 17,253 | 16,224 | 14,886 | 16,368 | 14,123 | 16,852 | 14,185 |

## Table B37. Heated, cooled, and lit buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Heated buildings | | Cooled buildings | | Lit buildings | |
| | Total floor-space in all buildings | Total floor-space[1] | Heated floor-space[2] | Total floor-space[1] | Cooled floor-space[2] | Total floor-space[1] | Lit floor-space[2] |
| **All buildings** | 87,093 | 80,078 | 70,053 | 79,294 | 60,998 | 83,569 | 68,729 |
| **Energy sources (more than one may apply)** | | | | | | | |
| Electricity | 84,869 | 80,053 | 70,042 | 79,294 | 60,998 | 83,569 | 68,729 |
| Natural gas | 58,725 | 58,129 | 52,163 | 56,899 | 44,163 | 58,278 | 48,925 |
| Fuel oil | 20,200 | 19,670 | 17,668 | 19,309 | 15,819 | 20,120 | 17,541 |
| District heat | 5,964 | 5,962 | 5,766 | 5,903 | 5,256 | 5,873 | 5,073 |
| District chilled water | 4,608 | 4,561 | 4,420 | 4,608 | 4,282 | 4,545 | 3,952 |
| Propane | 7,706 | 7,332 | 5,993 | 7,061 | 4,567 | 7,652 | 6,352 |
| Other | 3,826 | 3,826 | 3,413 | 3,573 | 2,470 | 3,784 | 3,189 |
| **Space-heating energy sources (more than one may apply)** | | | | | | | |
| Electricity | 49,030 | 49,030 | 42,273 | 47,914 | 37,789 | 48,789 | 40,600 |
| Natural gas | 49,511 | 49,511 | 44,372 | 47,836 | 36,284 | 49,150 | 41,159 |
| Fuel oil | 4,351 | 4,351 | 3,691 | 3,660 | 2,464 | 4,288 | 3,592 |
| District heat | 5,925 | 5,925 | 5,730 | 5,864 | 5,218 | 5,835 | 5,037 |
| Propane | 3,067 | 3,067 | 2,578 | 2,685 | 1,866 | 3,030 | 2,437 |
| Other | 1,010 | 1,010 | 889 | 821 | 442 | 985 | 819 |
| **Primary space-heating energy source** | | | | | | | |
| Electricity | 26,205 | 26,205 | 21,478 | 25,613 | 20,608 | 26,013 | 21,290 |
| Natural gas | 42,988 | 42,988 | 38,698 | 41,435 | 31,193 | 42,684 | 35,767 |
| Fuel oil | 2,542 | 2,542 | 2,146 | 1,984 | 1,243 | 2,479 | 1,951 |
| District heat | 5,797 | 5,797 | 5,603 | 5,736 | 5,097 | 5,706 | 4,926 |
| Propane | 1,948 | 1,948 | 1,604 | 1,643 | 1,145 | 1,928 | 1,527 |
| Other | 598 | 598 | 524 | 425 | Q | 573 | 453 |
| **Cooling energy sources (more than one may apply)** | | | | | | | |
| Electricity | 76,034 | 73,613 | 64,523 | 76,034 | 57,966 | 75,680 | 62,991 |
| Natural gas | 732 | 732 | 699 | 732 | 614 | 732 | 611 |
| District chilled water | 4,608 | 4,561 | 4,420 | 4,608 | 4,282 | 4,545 | 3,952 |
| **Energy end uses (more than one may apply)** | | | | | | | |
| Buildings with space heating | 80,078 | 80,078 | 70,053 | 76,834 | 59,496 | 79,384 | 65,913 |
| Buildings with cooling | 79,294 | 76,834 | 67,641 | 79,294 | 60,998 | 78,876 | 65,679 |
| Buildings with water heating | 79,015 | 76,584 | 67,598 | 76,414 | 59,286 | 78,622 | 65,494 |
| Buildings with cooking | 38,546 | 37,771 | 35,200 | 37,687 | 32,069 | 38,494 | 33,285 |
| Buildings with manufacturing | 5,078 | 4,790 | 3,658 | 4,682 | 2,589 | 5,044 | 4,109 |
| Buildings with electricity generation | 25,642 | 25,155 | 23,269 | 25,350 | 21,355 | 25,605 | 22,505 |
| **Percent of floorspace heated** | | | | | | | |
| Not heated | 7,015 | N | N | 2,459 | 1,501 | 4,185 | 2,815 |
| 1 to 50 | 10,130 | 10,130 | 2,611 | 9,164 | 3,219 | 9,956 | 6,538 |
| 51 to 99 | 14,650 | 14,650 | 12,144 | 14,438 | 11,166 | 14,586 | 12,006 |
| 100 | 55,298 | 55,298 | 55,298 | 53,232 | 45,111 | 54,842 | 47,369 |

## Table B37. Heated, cooled, and lit buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Heated buildings | | Cooled buildings | | Lit buildings | |
| | Total floor-space in all buildings | Total floor-space[1] | Heated floor-space[2] | Total floor-space[1] | Cooled floor-space[2] | Total floor-space[1] | Lit floor-space[2] |
| **All buildings** | 87,093 | 80,078 | 70,053 | 79,294 | 60,998 | 83,569 | 68,729 |
| **Percent of floorspace cooled** | | | | | | | |
| Not cooled | 7,799 | 3,243 | 2,412 | N | N | 4,693 | 3,050 |
| 1 to 50 | 18,891 | 17,856 | 11,850 | 18,891 | 4,594 | 18,742 | 13,872 |
| 51 to 99 | 22,728 | 22,293 | 19,969 | 22,728 | 18,728 | 22,615 | 18,976 |
| 100 | 37,676 | 36,685 | 35,822 | 37,676 | 37,676 | 37,519 | 32,830 |
| **Percent lit when open** | | | | | | | |
| Zero | 322 | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 12,628 | 11,367 | 8,089 | 10,941 | 6,544 | 12,628 | 4,117 |
| 51 to 99 | 34,814 | 33,572 | 29,956 | 33,775 | 26,728 | 34,814 | 28,828 |
| 100 | 35,726 | 34,204 | 31,307 | 33,976 | 27,345 | 35,726 | 35,726 |
| Building never open/electricity not used | 3,603 | 879 | 663 | 527 | 348 | 371 | 54 |
| **Percent lit during off hours** | | | | | | | |
| Zero | 24,746 | 22,494 | 18,815 | 21,297 | 14,887 | 23,500 | 18,364 |
| 1 to 50 | 50,753 | 48,596 | 43,030 | 48,966 | 38,315 | 50,753 | 41,824 |
| 51 to 100 | 6,926 | 6,646 | 6,171 | 6,731 | 5,820 | 6,926 | 6,559 |
| Building always open with no "off hours" | 2,443 | 2,317 | 2,027 | 2,300 | 1,976 | 2,390 | 1,983 |
| Electricity not used | 2,225 | Q | Q | N | N | N | N |
| **Heating equipment (more than one may apply)** | | | | | | | |
| Heat pumps | 11,846 | 11,846 | 10,407 | 11,772 | 9,787 | 11,809 | 9,988 |
| Furnaces | 8,654 | 8,654 | 7,574 | 8,514 | 6,322 | 8,604 | 6,985 |
| Individual space heaters | 20,766 | 20,766 | 17,801 | 19,159 | 13,559 | 20,603 | 17,077 |
| District heat | 5,925 | 5,925 | 5,730 | 5,864 | 5,218 | 5,835 | 5,037 |
| Boilers | 22,443 | 22,443 | 21,120 | 21,579 | 17,526 | 22,345 | 19,100 |
| Packaged heating units | 49,188 | 49,188 | 42,497 | 48,053 | 36,910 | 48,826 | 40,785 |
| Other | 1,574 | 1,574 | 1,455 | 1,534 | 1,215 | 1,570 | 1,347 |
| **Cooling equipment (more than one may apply)** | | | | | | | |
| Residential-type central air conditioners | 14,765 | 14,158 | 11,835 | 14,765 | 10,208 | 14,692 | 11,724 |
| Heat pumps | 12,538 | 12,464 | 11,060 | 12,538 | 10,373 | 12,523 | 10,613 |
| Individual air conditioners | 12,420 | 11,953 | 10,513 | 12,420 | 8,388 | 12,374 | 10,017 |
| District chilled water | 4,608 | 4,561 | 4,420 | 4,608 | 4,282 | 4,545 | 3,952 |
| Central chillers | 17,041 | 16,685 | 15,564 | 17,041 | 15,355 | 16,996 | 15,049 |
| Packaged air conditioning units | 45,153 | 43,820 | 38,689 | 45,153 | 34,709 | 44,954 | 37,867 |
| Swamp coolers | 1,918 | 1,879 | 1,480 | 1,918 | 1,343 | 1,918 | 1,672 |
| Other | 328 | 328 | 295 | 328 | 283 | 328 | 270 |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | |
| Heating | 27,558 | 27,558 | 23,851 | 26,409 | 19,975 | 27,408 | 22,463 |
| Cooling | 30,702 | 29,713 | 26,069 | 30,702 | 23,066 | 30,629 | 25,048 |

## Table B37. Heated, cooled, and lit buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Heated buildings | | Cooled buildings | | Lit buildings | |
| | Total floor-space in all buildings | Total floor-space[1] | Heated floor-space[2] | Total floor-space[1] | Cooled floor-space[2] | Total floor-space[1] | Lit floor-space[2] |
| **All buildings** | 87,093 | 80,078 | 70,053 | 79,294 | 60,998 | 83,569 | 68,729 |
| **Lighting equipment types (more than one may apply)** | | | | | | | |
| Incandescent | 38,406 | 37,292 | 33,783 | 37,119 | 30,223 | 38,406 | 32,035 |
| Standard fluorescent | 80,081 | 76,646 | 67,156 | 76,125 | 58,320 | 80,081 | 66,088 |
| Compact fluorescent | 53,816 | 52,287 | 47,539 | 52,285 | 43,263 | 53,816 | 45,420 |
| High-intensity discharge (HID) | 23,396 | 22,631 | 20,379 | 22,734 | 18,074 | 23,396 | 20,039 |
| Halogen | 28,059 | 27,225 | 24,188 | 27,618 | 22,581 | 28,059 | 23,727 |
| LED | 22,071 | 21,503 | 19,789 | 21,869 | 19,043 | 22,071 | 18,934 |
| Other | 446 | 446 | 425 | 446 | 399 | 446 | 411 |
| **HVAC conservation features (more than one may apply)** | | | | | | | |
| Economizer cycle | 30,749 | 30,454 | 28,477 | 30,749 | 26,258 | 30,701 | 26,912 |
| Regular HVAC maintenance | 69,244 | 67,518 | 60,452 | 67,839 | 53,994 | 68,962 | 58,459 |
| Building automation system (BAS)[4] | 37,051 | 36,511 | 34,076 | 36,692 | 32,185 | 36,901 | 32,428 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | |
| Multipaned windows | 60,362 | 58,245 | 52,455 | 57,518 | 45,595 | 59,205 | 49,654 |
| Tinted window glass | 45,025 | 42,793 | 37,690 | 43,491 | 34,652 | 44,068 | 37,216 |
| Reflective window glass | 15,908 | 15,400 | 13,691 | 15,527 | 12,738 | 15,759 | 13,298 |
| External overhangs or awnings | 32,188 | 30,924 | 27,484 | 31,133 | 25,021 | 31,869 | 26,800 |
| Skylights or atriums | 22,261 | 21,202 | 18,304 | 21,448 | 16,210 | 21,902 | 18,386 |
| Light scheduling | 30,263 | 29,204 | 26,385 | 29,761 | 24,861 | 30,263 | 26,079 |
| Occupancy sensors | 35,871 | 34,823 | 31,608 | 35,098 | 28,425 | 35,871 | 30,532 |
| Multi-level lighting or dimming | 14,534 | 14,097 | 12,860 | 14,318 | 12,501 | 14,534 | 12,338 |
| Daylight harvesting | 6,114 | 5,960 | 5,467 | 5,936 | 5,019 | 6,114 | 5,231 |
| Demand responsive lighting | 4,738 | 4,579 | 3,887 | 4,598 | 3,629 | 4,738 | 3,884 |
| Building automation system (BAS) for lighting[4] | 12,068 | 11,783 | 10,834 | 11,995 | 10,613 | 12,068 | 10,746 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | |
| Heating | 63,167 | 63,167 | 55,499 | 61,087 | 47,343 | 62,669 | 52,102 |
| Cooling | 62,516 | 60,904 | 53,675 | 62,516 | 48,459 | 62,156 | 51,809 |
| Lighting | 78,594 | 74,955 | 65,699 | 74,511 | 57,207 | 78,594 | 65,361 |

## Table B37. Heated, cooled, and lit buildings, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Heated buildings | | Cooled buildings | | Lit buildings | |
| | Total floor-space in all buildings | Total floor-space[1] | Heated floor-space[2] | Total floor-space[1] | Cooled floor-space[2] | Total floor-space[1] | Lit floor-space[2] |
| **All buildings** | 87,093 | 80,078 | 70,053 | 79,294 | 60,998 | 83,569 | 68,729 |

[1]*Total floorspace* refers to all floorspace in heated, cooled, or lit buildings, respectively, including the floorspace that was not heated cooled, or lit.

[2]*Heated floorspace* , *Cooled floorspace* , and *Lit floorspace* refer only to the portion of the floorspace in these buildings that was reported to be heated, cooled, or lit.

[3]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).

[4]In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B38. Heating equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 5,557 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,257 | 286 | 359 | 612 | Q | 128 | 1,259 | Q |
| 5,001 to 10,000 | 1,229 | 1,046 | 147 | 194 | 281 | Q | 99 | 628 | Q |
| 10,001 to 25,000 | 884 | 797 | 93 | 140 | 195 | Q | 123 | 511 | Q |
| 25,001 to 50,000 | 332 | 304 | 46 | 40 | 84 | 6 | 75 | 202 | Q |
| 50,001 to 100,000 | 199 | 187 | 39 | 15 | 41 | 10 | 69 | 120 | 8 |
| 100,001 to 200,000 | 90 | 86 | 12 | 5 | 21 | 9 | 31 | 55 | Q |
| 200,001 to 500,000 | 38 | 36 | 5 | 2 | 11 | 5 | 17 | 21 | Q |
| Over 500,000 | 8 | 8 | 1 | (*) | 2 | 2 | 3 | 4 | Q |
| **Principal building activity** | | | | | | | | | |
| Education | 389 | 379 | 62 | 26 | 45 | 12 | 96 | 223 | Q |
| Food sales | 177 | 160 | Q | Q | 31 | N | Q | 111 | Q |
| Food service | 380 | 359 | 32 | 53 | 52 | Q | 23 | 251 | Q |
| Health care | 157 | 153 | 24 | 23 | 32 | 2 | 23 | 101 | Q |
| Inpatient | 10 | 9 | 2 | (*) | 2 | 1 | 6 | 5 | Q |
| Outpatient | 147 | 144 | 21 | 22 | 29 | Q | 17 | 97 | N |
| Lodging | 158 | 153 | 39 | 21 | 60 | 4 | 38 | 55 | Q |
| Mercantile | 602 | 572 | 83 | 89 | 136 | Q | 59 | 402 | 13 |
| Retail (other than mall) | 438 | 412 | 53 | 52 | 96 | Q | 35 | 257 | Q |
| Enclosed and strip malls | 164 | 160 | 31 | 37 | 39 | Q | 24 | 145 | 11 |
| Office | 1,012 | 989 | 157 | 196 | 234 | 12 | 110 | 560 | Q |
| Public assembly | 352 | 330 | 42 | 61 | 80 | 7 | 41 | 183 | Q |
| Public order and safety | 84 | 81 | Q | Q | 24 | Q | 14 | 43 | Q |
| Religious worship | 412 | 408 | 52 | 91 | 89 | N | 61 | 236 | Q |
| Service | 619 | 528 | 43 | 70 | 259 | Q | 30 | 285 | Q |
| Warehouse and storage | 796 | 420 | 53 | 58 | 150 | Q | 18 | 246 | Q |
| Other | 125 | 100 | Q | Q | 39 | Q | 14 | 58 | Q |
| Vacant | 296 | 87 | Q | Q | Q | Q | 13 | 48 | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 362 | 322 | 29 | 61 | 113 | 5 | 58 | 161 | Q |
| 1920 to 1945 | 488 | 413 | 38 | 50 | 136 | 7 | 74 | 221 | Q |
| 1946 to 1959 | 599 | 517 | 70 | 76 | 170 | 5 | 75 | 283 | Q |
| 1960 to 1969 | 639 | 559 | 61 | 88 | 160 | 9 | 91 | 343 | Q |
| 1970 to 1979 | 684 | 599 | 57 | 107 | 185 | 10 | 59 | 370 | Q |
| 1980 to 1989 | 915 | 754 | 126 | 138 | 167 | 2 | 49 | 442 | Q |
| 1990 to 1999 | 845 | 675 | 102 | 118 | 139 | 3 | 50 | 421 | 11 |
| 2000 to 2003 | 375 | 322 | 42 | 52 | 60 | 4 | 35 | 201 | Q |
| 2004 to 2007 | 347 | 291 | 58 | 29 | 58 | 2 | 26 | 196 | Q |
| 2008 to 2012 | 303 | 270 | 46 | 36 | 60 | Q | 28 | 163 | Q |

## Table B38. Heating equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 5,557 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| **Census region and division** | | | | | | | | | |
| Northeast | 805 | 727 | 48 | 85 | 239 | 16 | 221 | 347 | Q |
| New England | 302 | 264 | 14 | 27 | 92 | Q | 87 | 112 | Q |
| Middle Atlantic | 504 | 463 | 34 | 58 | 147 | 9 | 134 | 235 | Q |
| Midwest | 1,237 | 1,096 | 53 | 252 | 340 | 7 | 148 | 644 | 22 |
| East North Central | 735 | 670 | 23 | 159 | 184 | 3 | 101 | 410 | Q |
| West North Central | 502 | 426 | 31 | 92 | 157 | 4 | 47 | 235 | Q |
| South | 2,247 | 1,842 | 392 | 282 | 381 | 18 | 98 | 1,127 | 16 |
| South Atlantic | 1,091 | 873 | 279 | 87 | 162 | 9 | 52 | 504 | Q |
| East South Central | 370 | 336 | 51 | 58 | 88 | Q | 15 | 225 | Q |
| West South Central | 786 | 633 | 62 | 137 | 131 | 5 | 30 | 399 | Q |
| West | 1,267 | 1,057 | 134 | 137 | 287 | 7 | 77 | 683 | 14 |
| Mountain | 338 | 293 | 25 | 53 | 102 | Q | 25 | 178 | Q |
| Pacific | 929 | 764 | 109 | 84 | 185 | 5 | 52 | 505 | Q |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,792 | 99 | 313 | 612 | 18 | 332 | 991 | 37 |
| Mixed-humid | 1,743 | 1,545 | 324 | 272 | 389 | 20 | 135 | 871 | 13 |
| Mixed-dry/Hot-dry | 837 | 676 | 96 | 78 | 135 | 4 | 38 | 471 | Q |
| Hot-humid | 799 | 593 | 91 | 79 | 76 | Q | 32 | 395 | Q |
| Marine | 147 | 116 | Q | Q | 35 | Q | 7 | 74 | Q |
| **Number of floors** | | | | | | | | | |
| One | 3,836 | 3,113 | 415 | 471 | 818 | Q | 184 | 1,904 | 42 |
| Two | 1,158 | 1,072 | 146 | 203 | 274 | 11 | 164 | 655 | 14 |
| Three | 374 | 355 | 37 | 61 | 106 | 10 | 119 | 168 | Q |
| Four to nine | 177 | 170 | 28 | 21 | 46 | 18 | 71 | 71 | Q |
| Ten or more | 13 | 12 | 3 | Q | 3 | 3 | 6 | 4 | Q |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 2,892 | 2,184 | 246 | 330 | 672 | Q | 182 | 1,171 | Q |
| 5 to 9 | 1,085 | 1,020 | 159 | 186 | 239 | Q | 79 | 618 | Q |
| 10 to 19 | 731 | 692 | 85 | 142 | 149 | Q | 77 | 458 | Q |
| 20 to 49 | 513 | 494 | 81 | 69 | 114 | 11 | 88 | 342 | 10 |
| 50 to 99 | 206 | 203 | 38 | 23 | 46 | 7 | 58 | 139 | Q |
| 100 to 249 | 93 | 92 | 13 | 5 | 18 | 7 | 44 | 55 | 2 |
| 250 or more | 37 | 37 | 5 | 1 | 8 | 6 | 16 | 18 | Q |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 1,149 | 815 | 108 | 156 | 215 | Q | 77 | 416 | Q |
| 40 to 48 | 1,346 | 1,230 | 162 | 212 | 343 | 7 | 114 | 712 | Q |
| 49 to 60 | 1,244 | 1,143 | 153 | 188 | 340 | 11 | 138 | 672 | Q |
| 61 to 84 | 764 | 672 | 100 | 87 | 167 | 9 | 97 | 453 | 9 |
| 85 to 167 | 479 | 414 | 40 | 53 | 69 | 6 | 40 | 301 | 13 |
| Open continuously | 575 | 448 | 65 | 60 | 113 | 11 | 77 | 248 | Q |

## Table B38. Heating equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 5,557 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 4,781 | 4,028 | 507 | 681 | 1,068 | 22 | 405 | 2,443 | 55 |
| Owner occupied | 2,466 | 2,198 | 286 | 378 | 585 | 13 | 243 | 1,249 | 26 |
| Leased to tenant(s) | 1,745 | 1,458 | 164 | 236 | 383 | Q | 120 | 969 | 26 |
| Owner occupied and leased | 349 | 325 | 54 | 57 | 91 | 2 | 38 | 201 | Q |
| Unoccupied | 221 | 47 | Q | Q | Q | Q | Q | 25 | Q |
| Government owned | 776 | 694 | 121 | 74 | 179 | 26 | 139 | 359 | Q |
| Federal | 33 | 33 | Q | Q | Q | 1 | 7 | 20 | Q |
| State | 185 | 168 | 28 | 19 | 45 | 18 | 31 | 84 | Q |
| Local | 558 | 493 | 90 | 51 | 126 | 7 | 102 | 255 | Q |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | |
| Building owner | 4,715 | 3,983 | 541 | 631 | 1,052 | 45 | 489 | 2,291 | 50 |
| Business owner or tenant | 724 | 634 | 66 | 110 | 173 | Q | 42 | 448 | 11 |
| Property management | 54 | 43 | Q | Q | 8 | Q | Q | 28 | Q |
| Other | 64 | 63 | Q | Q | Q | Q | 11 | 34 | N |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | |
| Building owner | 4,876 | 4,120 | 565 | 665 | 1,078 | 45 | 497 | 2,394 | 51 |
| Business owner or tenant | 540 | 472 | 40 | 75 | 143 | Q | 33 | 326 | 9 |
| Property management | 35 | 32 | Q | Q | 6 | Q | Q | 22 | Q |
| Other | 106 | 99 | 19 | Q | 21 | Q | 13 | 61 | Q |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 3,272 | 388 | 547 | 872 | Q | 357 | 2,000 | 48 |
| Primary or secondary school | 237 | 223 | 40 | 10 | 32 | Q | 28 | 149 | Q |
| College or university | 84 | 81 | 15 | Q | 10 | 22 | 19 | 30 | Q |
| Office complex | 154 | 148 | 21 | 30 | 33 | Q | 11 | 82 | Q |
| Retail complex | 258 | 225 | 34 | 41 | 60 | N | 18 | 162 | 8 |
| Storage complex | 314 | 69 | Q | Q | 28 | N | Q | 29 | N |
| Religious campus or complex | 197 | 190 | 28 | 36 | 30 | Q | 37 | 103 | N |
| Health care complex | 52 | 47 | Q | 9 | 9 | Q | 10 | 24 | Q |
| Lodging or resort complex | 65 | 57 | 11 | Q | 25 | Q | 9 | 15 | N |
| Transportation complex | 35 | 32 | Q | Q | 14 | Q | Q | 16 | N |
| Government complex | 104 | 83 | 14 | Q | 31 | 2 | 19 | 39 | Q |
| Other | 371 | 296 | 56 | 51 | 104 | Q | 28 | 152 | Q |

## Table B38. Heating equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 5,557 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | |
| Any type of renovation | 2,094 | 1,943 | 260 | 332 | 558 | 27 | 290 | 1,182 | 26 |
| Addition or annex | 444 | 425 | 69 | 91 | 109 | 4 | 72 | 265 | Q |
| Reduction in floorspace | 71 | 63 | 7 | Q | 18 | Q | 10 | 40 | Q |
| Roof replacement | 987 | 912 | 114 | 167 | 259 | 12 | 164 | 533 | 14 |
| Exterior wall replacement | 194 | 181 | 27 | 31 | 57 | 1 | 27 | 111 | Q |
| Interior wall reconfiguration | 889 | 832 | 115 | 151 | 244 | 14 | 125 | 526 | 7 |
| Window replacement | 560 | 536 | 83 | 106 | 163 | 6 | 110 | 315 | Q |
| HVAC equipment upgrade | 1,101 | 1,050 | 167 | 209 | 301 | 17 | 174 | 659 | 13 |
| Lighting upgrade | 982 | 924 | 139 | 160 | 260 | 18 | 162 | 571 | 11 |
| Electrical upgrade | 747 | 696 | 104 | 118 | 214 | 11 | 120 | 430 | Q |
| Plumbing system upgrade | 644 | 603 | 85 | 104 | 179 | 8 | 105 | 378 | Q |
| Insulation upgrade | 382 | 363 | 62 | 81 | 105 | 6 | 65 | 221 | Q |
| Fire, safety, or security upgrade | 616 | 582 | 84 | 97 | 176 | 12 | 106 | 366 | Q |
| Structural upgrade | 152 | 150 | 23 | 27 | 43 | Q | 31 | 88 | Q |
| Other | 39 | 30 | Q | Q | 13 | Q | Q | 19 | Q |
| No renovations | 3,160 | 2,509 | 322 | 387 | 629 | 19 | 227 | 1,457 | 31 |
| Buildings constructed 2008 or later | 303 | 270 | 46 | 36 | 60 | Q | 28 | 163 | Q |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 5,234 | 4,717 | 628 | 755 | 1,246 | 48 | 543 | 2,802 | 60 |
| Natural gas | 2,933 | 2,888 | 233 | 550 | 774 | 17 | 409 | 1,901 | 36 |
| Fuel oil | 467 | 455 | 44 | 42 | 177 | 10 | 139 | 218 | Q |
| District heat | 48 | 48 | 3 | Q | 9 | 48 | Q | 3 | Q |
| District chilled water | 54 | 51 | Q | Q | 7 | 26 | 9 | 16 | Q |
| Propane | 510 | 491 | 49 | 95 | 195 | Q | 58 | 250 | 19 |
| Other | 172 | 172 | 29 | 25 | 93 | 1 | 28 | 77 | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 2,858 | 2,858 | 611 | 366 | 868 | 12 | 225 | 1,785 | 46 |
| Natural gas | 2,612 | 2,612 | 188 | 530 | 722 | 2 | 390 | 1,717 | 34 |
| Fuel oil | 270 | 270 | 18 | 20 | 118 | Q | 85 | 116 | Q |
| District heat | 48 | 48 | 3 | Q | 9 | 48 | Q | 3 | Q |
| Propane | 342 | 342 | 26 | 72 | 146 | Q | 31 | 181 | Q |
| Other | 101 | 101 | Q | Q | 72 | Q | Q | 30 | Q |
| **Primary space-heating energy source** | | | | | | | | | |
| Electricity | 1,819 | 1,819 | 484 | 191 | 392 | Q | 83 | 1,057 | 14 |
| Natural gas | 2,322 | 2,322 | 117 | 485 | 622 | Q | 355 | 1,506 | 27 |
| Fuel oil | 205 | 205 | Q | Q | 81 | Q | 71 | 85 | Q |
| District heat | 47 | 47 | 2 | Q | 8 | 47 | Q | 3 | Q |
| Propane | 261 | 261 | Q | 59 | 96 | N | 23 | 135 | Q |
| Other | 67 | 67 | Q | Q | 47 | N | Q | Q | Q |

## Table B38. Heating equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 5,557 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 4,722 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| Buildings with cooling | 4,461 | 4,272 | 621 | 728 | 1,007 | 44 | 483 | 2,633 | 55 |
| Buildings with water heating | 4,423 | 4,237 | 581 | 711 | 1,072 | 45 | 521 | 2,575 | 50 |
| Buildings with cooking | 1,589 | 1,525 | 205 | 280 | 352 | 14 | 259 | 950 | 36 |
| Buildings with manufacturing | 259 | 234 | 25 | 36 | 85 | Q | 20 | 157 | Q |
| Buildings with electricity generation | 410 | 400 | 59 | 52 | 120 | 15 | 118 | 232 | 8 |
| **Percent of floorspace heated** | | | | | | | | | |
| Not heated | 835 | N | N | N | N | N | N | N | N |
| 1 to 50 | 697 | 697 | 81 | 76 | 233 | Q | 34 | 381 | Q |
| 51 to 99 | 727 | 727 | 99 | 104 | 210 | 7 | 102 | 456 | 13 |
| 100 | 3,298 | 3,298 | 448 | 575 | 805 | 40 | 407 | 1,965 | 39 |
| **Heating equipment (more than one may apply)** | | | | | | | | | |
| Heat pumps | 628 | 628 | 628 | 53 | 110 | 3 | 49 | 150 | Q |
| Furnaces | 755 | 755 | 53 | 755 | 179 | Q | 33 | 178 | Q |
| Individual space heaters | 1,247 | 1,247 | 110 | 179 | 1,247 | 9 | 120 | 476 | 22 |
| District heat | 48 | 48 | 3 | Q | 9 | 48 | Q | 3 | Q |
| Boilers | 544 | 544 | 49 | 33 | 120 | Q | 544 | 163 | Q |
| Packaged heating units | 2,802 | 2,802 | 150 | 178 | 476 | 3 | 163 | 2,802 | 26 |
| Other | 62 | 62 | Q | Q | 22 | Q | Q | 26 | 62 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 1,476 | 86 | 530 | 325 | Q | 119 | 870 | 24 |
| Heat pumps | 692 | 685 | 549 | 60 | 124 | 2 | 55 | 249 | Q |
| Individual air conditioners | 709 | 643 | 46 | 92 | 352 | 6 | 133 | 258 | Q |
| District chilled water | 54 | 51 | Q | Q | 7 | 26 | 9 | 16 | Q |
| Central chillers | 163 | 158 | 13 | 10 | 32 | 8 | 106 | 69 | Q |
| Packaged air conditioning units | 1,909 | 1,841 | 118 | 194 | 338 | 11 | 203 | 1,589 | 23 |
| Swamp coolers | 109 | 99 | 8 | Q | 55 | Q | 12 | 57 | Q |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | N |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | |
| Heating | 1,874 | 1,874 | 291 | 318 | 530 | Q | 237 | 1,103 | 20 |
| Cooling | 1,971 | 1,879 | 293 | 353 | 514 | 11 | 234 | 1,095 | 22 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | |
| Economizer cycle | 601 | 589 | 91 | 60 | 118 | 23 | 137 | 427 | 8 |
| Regular HVAC maintenance | 3,178 | 3,078 | 465 | 509 | 565 | 40 | 446 | 2,012 | 35 |
| Building automation system (BAS)[2] | 781 | 768 | 110 | 77 | 117 | 30 | 186 | 523 | 15 |

## Table B38. Heating equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 5,557 | 4,722 | 628 | 755 | 1,247 | 48 | 544 | 2,802 | 62 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | |
| Heating | 3,699 | 3,699 | 471 | 637 | 964 | 32 | 403 | 2,257 | 43 |
| Cooling | 3,517 | 3,391 | 463 | 602 | 799 | 31 | 374 | 2,136 | 44 |
| Lighting | 4,757 | 4,406 | 591 | 721 | 1,172 | 45 | 515 | 2,623 | 57 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B39. Heating equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 87,093 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,699 | 868 | 1,091 | 1,747 | Q | 400 | 3,809 | Q |
| 5,001 to 10,000 | 8,900 | 7,590 | 1,038 | 1,416 | 2,025 | Q | 734 | 4,622 | Q |
| 10,001 to 25,000 | 14,105 | 12,744 | 1,477 | 2,233 | 3,115 | Q | 2,008 | 8,246 | Q |
| 25,001 to 50,000 | 11,917 | 10,911 | 1,642 | 1,439 | 3,021 | 213 | 2,707 | 7,237 | Q |
| 50,001 to 100,000 | 13,918 | 13,114 | 2,664 | 1,042 | 2,763 | 704 | 4,938 | 8,489 | 541 |
| 100,001 to 200,000 | 12,415 | 11,941 | 1,549 | 683 | 2,915 | 1,313 | 4,258 | 7,569 | Q |
| 200,001 to 500,000 | 10,724 | 10,348 | 1,527 | 466 | 2,970 | 1,553 | 4,970 | 5,991 | Q |
| Over 500,000 | 7,074 | 6,730 | 1,080 | 284 | 2,211 | 1,974 | 2,430 | 3,225 | Q |
| **Principal building activity** | | | | | | | | | |
| Education | 12,239 | 12,099 | 2,209 | 564 | 1,750 | 1,155 | 6,637 | 6,107 | Q |
| Food sales | 1,252 | 1,196 | Q | Q | 336 | N | Q | 944 | Q |
| Food service | 1,819 | 1,762 | 146 | 266 | 256 | Q | 145 | 1,296 | Q |
| Health care | 4,155 | 4,109 | 739 | 258 | 967 | 671 | 2,285 | 2,085 | Q |
| Inpatient | 2,374 | 2,354 | 506 | 124 | 501 | 563 | 1,698 | 1,073 | Q |
| Outpatient | 1,781 | 1,754 | 233 | 133 | 466 | Q | 588 | 1,012 | N |
| Lodging | 5,826 | 5,696 | 1,259 | 638 | 2,168 | 621 | 2,105 | 2,561 | Q |
| Mercantile | 11,330 | 10,794 | 1,419 | 1,423 | 2,568 | Q | 1,138 | 9,434 | 872 |
| Retail (other than mall) | 5,439 | 5,088 | 441 | 590 | 1,007 | Q | 312 | 3,964 | Q |
| Enclosed and strip malls | 5,890 | 5,706 | 978 | 832 | 1,561 | Q | 826 | 5,470 | 860 |
| Office | 15,952 | 15,753 | 2,667 | 1,691 | 3,727 | 1,794 | 4,650 | 8,407 | Q |
| Public assembly | 5,559 | 5,323 | 727 | 582 | 1,560 | 888 | 1,621 | 3,016 | Q |
| Public order and safety | 1,440 | 1,391 | Q | Q | 253 | Q | 466 | 601 | Q |
| Religious worship | 4,557 | 4,511 | 581 | 927 | 859 | N | 1,359 | 2,801 | Q |
| Service | 4,630 | 4,157 | 356 | 497 | 1,919 | Q | 433 | 2,498 | Q |
| Warehouse and storage | 13,077 | 9,987 | 1,138 | 1,294 | 3,480 | Q | 841 | 7,297 | Q |
| Other | 2,002 | 1,886 | Q | Q | 737 | Q | 408 | 1,257 | Q |
| Vacant | 3,256 | 1,415 | Q | Q | Q | Q | 296 | 886 | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 3,983 | 3,583 | 371 | 524 | 1,442 | 523 | 1,221 | 1,380 | Q |
| 1920 to 1945 | 6,025 | 5,527 | 744 | 393 | 1,717 | 888 | 2,016 | 2,589 | Q |
| 1946 to 1959 | 7,381 | 6,895 | 907 | 685 | 2,277 | 446 | 2,659 | 3,715 | Q |
| 1960 to 1969 | 10,362 | 9,730 | 1,295 | 1,168 | 2,586 | 1,002 | 3,506 | 5,670 | Q |
| 1970 to 1979 | 10,846 | 10,045 | 1,198 | 1,345 | 2,923 | 930 | 2,763 | 6,156 | Q |
| 1980 to 1989 | 15,230 | 13,723 | 2,386 | 1,763 | 3,424 | 446 | 2,973 | 9,037 | Q |
| 1990 to 1999 | 13,803 | 12,389 | 2,136 | 1,266 | 2,996 | 642 | 2,970 | 8,544 | 397 |
| 2000 to 2003 | 7,215 | 6,707 | 808 | 551 | 1,292 | Q | 1,636 | 4,281 | Q |
| 2004 to 2007 | 6,524 | 5,972 | 1,174 | 516 | 1,160 | Q | 1,395 | 4,076 | Q |
| 2008 to 2012 | 5,723 | 5,505 | 826 | 442 | 948 | Q | 1,303 | 3,741 | Q |

## Table B39. Heating equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 87,093 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| **Census region and division** | | | | | | | | | |
| Northeast | 15,534 | 15,053 | 1,397 | 1,244 | 4,918 | 1,981 | 6,447 | 7,186 | Q |
| New England | 4,302 | 4,090 | 400 | 323 | 1,529 | Q | 1,823 | 1,769 | Q |
| Middle Atlantic | 11,232 | 10,963 | 998 | 922 | 3,389 | 1,628 | 4,624 | 5,417 | Q |
| Midwest | 18,919 | 18,055 | 1,068 | 2,511 | 5,735 | 906 | 6,666 | 10,894 | 370 |
| East North Central | 12,742 | 12,240 | 632 | 1,756 | 3,668 | 574 | 5,083 | 7,347 | Q |
| West North Central | 6,178 | 5,815 | 436 | 755 | 2,066 | 332 | 1,583 | 3,547 | Q |
| South | 34,279 | 30,499 | 6,927 | 3,363 | 6,519 | 2,171 | 5,784 | 20,049 | 550 |
| South Atlantic | 17,981 | 15,883 | 4,909 | 1,234 | 3,328 | 1,148 | 3,247 | 10,168 | Q |
| East South Central | 4,904 | 4,692 | 844 | 530 | 1,295 | Q | 1,077 | 3,136 | Q |
| West South Central | 11,394 | 9,923 | 1,174 | 1,599 | 1,896 | 637 | 1,460 | 6,745 | Q |
| West | 18,360 | 16,471 | 2,453 | 1,536 | 3,594 | 867 | 3,545 | 11,059 | 339 |
| Mountain | 4,981 | 4,704 | 498 | 554 | 1,197 | 482 | 1,150 | 2,967 | Q |
| Pacific | 13,379 | 11,767 | 1,955 | 983 | 2,397 | 385 | 2,395 | 8,092 | 242 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 31,898 | 30,469 | 2,150 | 3,558 | 10,128 | 1,926 | 11,556 | 17,640 | 824 |
| Mixed-humid | 27,873 | 26,716 | 6,182 | 3,009 | 6,697 | 3,002 | 7,029 | 15,485 | 487 |
| Mixed-dry/Hot-dry | 12,037 | 10,484 | 1,669 | 995 | 1,703 | Q | 1,777 | 7,351 | Q |
| Hot-humid | 12,831 | 10,090 | 1,387 | 937 | 1,607 | 362 | 1,499 | 7,217 | Q |
| Marine | 2,454 | 2,319 | 458 | Q | 631 | Q | 581 | 1,495 | Q |
| **Number of floors** | | | | | | | | | |
| One | 39,809 | 34,513 | 4,642 | 4,356 | 8,857 | Q | 4,257 | 24,999 | 1,127 |
| Two | 20,206 | 19,411 | 2,844 | 2,518 | 4,987 | Q | 5,762 | 13,422 | 297 |
| Three | 8,140 | 7,896 | 1,229 | 857 | 2,150 | 544 | 3,667 | 3,918 | Q |
| Four to nine | 13,535 | 12,992 | 2,089 | 826 | 3,398 | 2,791 | 6,521 | 5,180 | Q |
| Ten or more | 5,404 | 5,265 | 1,041 | Q | 1,374 | 1,900 | 2,236 | 1,669 | Q |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 17,751 | 12,931 | 1,366 | 1,921 | 3,710 | Q | 1,908 | 6,967 | Q |
| 5 to 9 | 8,973 | 8,492 | 1,230 | 1,264 | 2,274 | Q | 982 | 5,320 | Q |
| 10 to 19 | 9,623 | 8,970 | 1,234 | 1,758 | 2,219 | Q | 1,219 | 6,041 | Q |
| 20 to 49 | 14,514 | 14,126 | 2,268 | 1,678 | 3,752 | 623 | 3,764 | 9,817 | 448 |
| 50 to 99 | 13,476 | 13,184 | 2,409 | 1,278 | 3,323 | 669 | 4,610 | 9,055 | Q |
| 100 to 249 | 10,941 | 10,805 | 1,490 | 387 | 2,390 | 1,096 | 4,938 | 6,596 | 422 |
| 250 or more | 11,815 | 11,570 | 1,849 | 367 | 3,097 | 3,053 | 5,021 | 5,393 | Q |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 8,220 | 5,763 | 617 | 980 | 1,222 | Q | 1,180 | 3,012 | Q |
| 40 to 48 | 15,828 | 14,867 | 2,230 | 2,020 | 3,696 | 403 | 3,907 | 8,633 | Q |
| 49 to 60 | 20,529 | 19,365 | 3,183 | 2,268 | 4,971 | 1,099 | 5,496 | 11,950 | Q |
| 61 to 84 | 15,867 | 15,148 | 2,427 | 1,262 | 3,999 | 828 | 3,993 | 10,640 | 443 |
| 85 to 167 | 9,395 | 8,711 | 724 | 878 | 2,183 | 631 | 2,266 | 6,372 | 364 |
| Open continuously | 17,253 | 16,224 | 2,666 | 1,246 | 4,696 | 2,792 | 5,601 | 8,582 | Q |

## Table B39. Heating equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 87,093 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| **Ownership and occupancy** | | | | | | | | | |
| Nongovernment owned | 67,550 | 61,341 | 8,500 | 7,472 | 16,206 | 3,119 | 13,405 | 40,336 | 1,316 |
| Owner occupied | 30,637 | 28,745 | 3,841 | 3,629 | 7,363 | 1,825 | 6,663 | 17,635 | 214 |
| Leased to tenant(s) | 26,115 | 23,766 | 3,022 | 2,880 | 6,507 | 730 | 4,091 | 17,239 | 1,021 |
| Owner occupied and leased | 8,873 | 8,328 | 1,597 | 900 | 2,284 | 557 | 2,590 | 5,102 | Q |
| Unoccupied | 1,925 | 502 | Q | Q | Q | Q | Q | 360 | Q |
| Government owned | 19,543 | 18,736 | 3,346 | 1,182 | 4,561 | 2,807 | 9,038 | 8,852 | Q |
| Federal | 1,573 | 1,557 | 212 | Q | 558 | 697 | 471 | 495 | Q |
| State | 5,539 | 5,411 | 636 | 378 | 1,375 | 1,526 | 2,305 | 2,213 | Q |
| Local | 12,431 | 11,768 | 2,497 | 753 | 2,628 | 584 | 6,263 | 6,144 | Q |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | |
| Building owner | 73,702 | 67,644 | 10,210 | 7,076 | 17,425 | 5,737 | 20,588 | 39,517 | 1,008 |
| Business owner or tenant | 11,309 | 10,534 | 1,240 | 1,325 | 2,895 | Q | 1,363 | 8,598 | 549 |
| Property management | 1,250 | 1,073 | Q | Q | 227 | Q | 273 | 652 | Q |
| Other | 832 | 826 | Q | Q | Q | Q | 219 | 422 | N |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | |
| Building owner | 76,271 | 70,099 | 10,579 | 7,554 | 17,932 | 5,694 | 20,908 | 41,565 | 1,041 |
| Business owner or tenant | 8,256 | 7,685 | 800 | 812 | 2,297 | Q | 1,058 | 6,096 | 366 |
| Property management | 880 | 722 | Q | Q | 201 | Q | Q | 469 | Q |
| Other | 1,686 | 1,571 | 369 | Q | 337 | Q | 301 | 1,058 | Q |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 48,779 | 6,741 | 5,649 | 12,576 | 960 | 13,400 | 32,001 | 828 |
| Primary or secondary school | 4,616 | 4,486 | 986 | 344 | 647 | Q | 1,979 | 2,868 | Q |
| College or university | 4,068 | 4,008 | 379 | Q | 574 | 2,185 | 1,163 | 758 | Q |
| Office complex | 3,456 | 3,377 | 681 | 208 | 699 | Q | 894 | 1,754 | Q |
| Retail complex | 5,159 | 4,805 | 675 | 668 | 1,508 | N | 516 | 4,330 | 598 |
| Storage complex | 3,212 | 1,285 | Q | Q | 560 | N | Q | 691 | N |
| Religious campus or complex | 1,932 | 1,896 | 207 | 308 | 242 | Q | 565 | 1,152 | N |
| Health care complex | 3,362 | 3,296 | 592 | 250 | 882 | 968 | 1,668 | 1,509 | Q |
| Lodging or resort complex | 1,295 | 1,181 | 255 | Q | 456 | Q | 350 | 383 | N |
| Transportation complex | 554 | 496 | Q | Q | 282 | Q | Q | 233 | N |
| Government complex | 2,107 | 1,992 | 259 | Q | 872 | 720 | 715 | 711 | Q |
| Other | 5,057 | 4,478 | 876 | 769 | 1,468 | Q | 915 | 2,799 | Q |

## Table B39. Heating equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 87,093 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | |
| Any type of renovation | 42,216 | 40,692 | 6,295 | 4,399 | 12,371 | 3,964 | 13,377 | 25,179 | 783 |
| Addition or annex | 13,022 | 12,822 | 2,127 | 1,526 | 3,745 | 1,254 | 5,423 | 8,320 | Q |
| Reduction in floorspace | 1,753 | 1,659 | 303 | Q | 519 | Q | 381 | 991 | Q |
| Roof replacement | 20,917 | 20,344 | 3,033 | 2,181 | 6,534 | 2,010 | 8,067 | 12,038 | 381 |
| Exterior wall replacement | 4,230 | 4,136 | 751 | 466 | 1,361 | 353 | 1,463 | 2,706 | Q |
| Interior wall reconfiguration | 21,340 | 20,750 | 3,207 | 2,233 | 6,598 | 2,571 | 6,940 | 13,025 | 313 |
| Window replacement | 12,265 | 12,011 | 1,850 | 1,377 | 3,770 | 1,431 | 4,758 | 6,742 | Q |
| HVAC equipment upgrade | 26,779 | 26,066 | 4,440 | 3,075 | 8,259 | 2,986 | 9,286 | 16,158 | 499 |
| Lighting upgrade | 25,503 | 24,896 | 3,933 | 2,514 | 8,132 | 3,037 | 8,908 | 15,008 | 492 |
| Electrical upgrade | 16,160 | 15,661 | 2,772 | 1,773 | 5,398 | 2,032 | 5,693 | 9,467 | Q |
| Plumbing system upgrade | 13,828 | 13,537 | 2,344 | 1,500 | 4,666 | 1,724 | 4,987 | 8,052 | Q |
| Insulation upgrade | 7,607 | 7,371 | 1,450 | 1,172 | 2,509 | 1,070 | 2,421 | 4,417 | Q |
| Fire, safety, or security upgrade | 17,196 | 16,676 | 3,139 | 1,736 | 5,566 | 2,073 | 6,630 | 9,806 | Q |
| Structural upgrade | 3,913 | 3,864 | 836 | 449 | 1,043 | 697 | 1,208 | 2,317 | Q |
| Other | 848 | 751 | Q | Q | 411 | Q | Q | 388 | Q |
| No renovations | 39,154 | 33,880 | 4,725 | 3,813 | 7,447 | 1,770 | 7,763 | 20,268 | 723 |
| Buildings constructed 2008 or later | 5,723 | 5,505 | 826 | 442 | 948 | Q | 1,303 | 3,741 | Q |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 84,869 | 80,053 | 11,846 | 8,654 | 20,751 | 5,925 | 22,438 | 49,188 | 1,570 |
| Natural gas | 58,725 | 58,129 | 7,560 | 7,046 | 15,808 | 2,833 | 20,019 | 37,569 | 1,194 |
| Fuel oil | 20,200 | 19,670 | 3,047 | 870 | 5,874 | 3,088 | 9,340 | 9,580 | Q |
| District heat | 5,964 | 5,962 | 556 | Q | 1,354 | 5,925 | Q | 742 | Q |
| District chilled water | 4,608 | 4,561 | 325 | Q | 888 | 3,718 | 582 | 756 | Q |
| Propane | 7,706 | 7,332 | 884 | 757 | 2,742 | Q | 1,772 | 4,689 | 277 |
| Other | 3,826 | 3,826 | 544 | 429 | 1,353 | 335 | 1,411 | 2,348 | Q |
| **Space-heating energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 49,030 | 49,030 | 11,482 | 5,040 | 16,235 | 1,869 | 10,721 | 35,389 | 1,352 |
| Natural gas | 49,511 | 49,511 | 5,928 | 6,837 | 13,893 | 350 | 18,893 | 32,966 | 1,094 |
| Fuel oil | 4,351 | 4,351 | 527 | 183 | 1,648 | Q | 2,556 | 1,746 | Q |
| District heat | 5,925 | 5,925 | 556 | Q | 1,334 | 5,925 | Q | 725 | Q |
| Propane | 3,067 | 3,067 | 385 | 481 | 1,217 | Q | 565 | 1,963 | Q |
| Other | 1,010 | 1,010 | Q | Q | 590 | Q | Q | 411 | Q |
| **Primary space-heating energy source** | | | | | | | | | |
| Electricity | 26,205 | 26,205 | 7,215 | 2,270 | 6,035 | Q | 2,982 | 18,523 | 447 |
| Natural gas | 42,988 | 42,988 | 3,792 | 5,778 | 11,482 | Q | 17,437 | 27,826 | 873 |
| Fuel oil | 2,542 | 2,542 | Q | Q | 1,008 | Q | 1,504 | 757 | Q |
| District heat | 5,797 | 5,797 | 464 | Q | 1,271 | 5,797 | Q | 650 | Q |
| Propane | 1,948 | 1,948 | Q | 405 | 666 | N | 276 | 1,193 | Q |
| Other | 598 | 598 | Q | Q | 305 | N | Q | Q | Q |

## Table B39. Heating equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 87,093 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 80,078 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| Buildings with cooling | 79,294 | 76,834 | 11,772 | 8,514 | 19,159 | 5,864 | 21,579 | 48,053 | 1,534 |
| Buildings with water heating | 79,015 | 76,584 | 11,576 | 8,420 | 19,548 | 5,783 | 22,020 | 47,297 | 1,532 |
| Buildings with cooking | 38,546 | 37,771 | 6,592 | 4,005 | 9,590 | 3,116 | 14,847 | 23,131 | 1,306 |
| Buildings with manufacturing | 5,078 | 4,790 | 596 | 671 | 2,219 | Q | 795 | 3,538 | Q |
| Buildings with electricity generation | 25,642 | 25,155 | 4,035 | 1,414 | 6,857 | 3,710 | 11,356 | 13,943 | 626 |
| **Percent of floorspace heated** | | | | | | | | | |
| Not heated | 7,015 | N | N | N | N | N | N | N | N |
| 1 to 50 | 10,130 | 10,130 | 1,390 | 931 | 2,964 | Q | 1,016 | 6,769 | Q |
| 51 to 99 | 14,650 | 14,650 | 2,531 | 1,628 | 4,499 | 1,126 | 4,532 | 9,295 | 550 |
| 100 | 55,298 | 55,298 | 7,925 | 6,095 | 13,303 | 4,683 | 16,895 | 33,125 | 980 |
| **Heating equipment (more than one may apply)** | | | | | | | | | |
| Heat pumps | 11,846 | 11,846 | 11,846 | 1,347 | 2,961 | 556 | 3,225 | 5,597 | Q |
| Furnaces | 8,654 | 8,654 | 1,347 | 8,654 | 2,865 | Q | 1,053 | 4,165 | Q |
| Individual space heaters | 20,766 | 20,766 | 2,961 | 2,865 | 20,766 | 1,334 | 5,203 | 11,474 | 667 |
| District heat | 5,925 | 5,925 | 556 | Q | 1,334 | 5,925 | Q | 725 | Q |
| Boilers | 22,443 | 22,443 | 3,225 | 1,053 | 5,203 | Q | 22,443 | 8,817 | Q |
| Packaged heating units | 49,188 | 49,188 | 5,597 | 4,165 | 11,474 | 725 | 8,817 | 49,188 | 1,147 |
| Other | 1,574 | 1,574 | Q | Q | 667 | Q | Q | 1,147 | 1,574 |
| **Cooling equipment (more than one may apply)** | | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 14,158 | 1,516 | 4,906 | 3,884 | Q | 2,073 | 8,975 | 356 |
| Heat pumps | 12,538 | 12,464 | 10,037 | 1,365 | 3,016 | 556 | 3,179 | 6,851 | Q |
| Individual air conditioners | 12,420 | 11,953 | 2,015 | 1,318 | 6,038 | 902 | 5,083 | 6,096 | Q |
| District chilled water | 4,608 | 4,561 | 325 | Q | 888 | 3,718 | 582 | 756 | Q |
| Central chillers | 17,041 | 16,685 | 2,333 | 579 | 4,128 | 1,948 | 11,683 | 7,259 | Q |
| Packaged air conditioning units | 45,153 | 43,820 | 5,282 | 4,004 | 11,336 | 2,056 | 11,510 | 35,944 | 1,228 |
| Swamp coolers | 1,918 | 1,879 | 379 | Q | 713 | Q | 486 | 1,416 | Q |
| Other | 328 | 328 | Q | Q | Q | Q | Q | Q | N |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | |
| Heating | 27,558 | 27,558 | 4,825 | 3,745 | 8,591 | Q | 8,332 | 17,733 | 461 |
| Cooling | 30,702 | 29,713 | 5,199 | 4,192 | 9,048 | 1,231 | 9,016 | 18,452 | 510 |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | |
| Economizer cycle | 30,749 | 30,454 | 4,726 | 2,221 | 7,496 | 4,063 | 12,065 | 19,411 | 707 |
| Regular HVAC maintenance | 69,244 | 67,518 | 10,742 | 6,994 | 15,683 | 5,591 | 20,967 | 42,471 | 1,340 |
| Building automation system (BAS)[2] | 37,051 | 36,511 | 5,652 | 2,267 | 7,757 | 4,967 | 14,726 | 21,943 | 1,047 |

## Table B39. Heating equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Heating equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with space heating | Heat pumps | Furnaces | Indiv-idual space heaters | District heat | Boilers | Pack-aged heating units | Other |
| **All buildings** | 87,093 | 80,078 | 11,846 | 8,654 | 20,766 | 5,925 | 22,443 | 49,188 | 1,574 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | |
| Heating | 63,167 | 63,167 | 9,415 | 7,390 | 16,076 | 4,011 | 17,877 | 40,078 | 1,334 |
| Cooling | 62,516 | 60,904 | 9,350 | 7,194 | 15,084 | 4,029 | 17,152 | 39,291 | 1,306 |
| Lighting | 78,594 | 74,955 | 11,191 | 8,237 | 19,658 | 5,470 | 21,363 | 45,948 | 1,465 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B40. Cooling equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 5,557 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,062 | 796 | 321 | 362 | Q | Q | 697 | 58 | Q |
| 5,001 to 10,000 | 1,229 | 1,004 | 403 | 168 | 136 | Q | Q | 418 | Q | N |
| 10,001 to 25,000 | 884 | 774 | 246 | 91 | 116 | 9 | 36 | 407 | Q | Q |
| 25,001 to 50,000 | 332 | 302 | 72 | 52 | 46 | Q | 29 | 181 | Q | Q |
| 50,001 to 100,000 | 199 | 187 | 21 | 41 | 29 | 10 | 36 | 124 | 7 | Q |
| 100,001 to 200,000 | 90 | 88 | 7 | 13 | 12 | 9 | 23 | 54 | Q | Q |
| 200,001 to 500,000 | 38 | 37 | 2 | 5 | 7 | 4 | 18 | 24 | Q | Q |
| Over 500,000 | 8 | 8 | Q | 1 | 1 | 1 | 5 | 5 | Q | Q |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 361 | 68 | 69 | 45 | 25 | 42 | 165 | Q | Q |
| Food sales | 177 | 165 | 64 | Q | Q | N | Q | 76 | Q | N |
| Food service | 380 | 358 | 110 | 37 | 48 | Q | Q | 188 | 21 | N |
| Health care | 157 | 154 | 58 | 28 | 8 | Q | 16 | 72 | Q | Q |
| Inpatient | 10 | 10 | Q | 2 | 2 | 1 | 6 | 6 | Q | Q |
| Outpatient | 147 | 145 | 57 | 26 | Q | Q | 10 | 66 | Q | Q |
| Lodging | 158 | 145 | 34 | 36 | 71 | Q | 11 | 40 | Q | Q |
| Mercantile | 602 | 560 | 209 | 96 | 73 | N | Q | 301 | 14 | N |
| Retail (other than mall) | 438 | 396 | 133 | 60 | 61 | N | Q | 170 | Q | N |
| Enclosed and strip malls | 164 | 164 | 76 | 36 | 12 | N | Q | 131 | Q | N |
| Office | 1,012 | 995 | 358 | 175 | 124 | 10 | 43 | 396 | Q | Q |
| Public assembly | 352 | 295 | 116 | 42 | 29 | 5 | 15 | 127 | Q | Q |
| Public order and safety | 84 | 74 | 23 | Q | Q | Q | 4 | 32 | Q | Q |
| Religious worship | 412 | 375 | 164 | 57 | 61 | Q | Q | 146 | Q | Q |
| Service | 619 | 435 | 138 | 50 | 126 | N | Q | 140 | Q | Q |
| Warehouse and storage | 796 | 391 | 149 | 57 | 71 | N | Q | 158 | Q | Q |
| Other | 125 | 90 | 39 | Q | Q | Q | 6 | 43 | Q | Q |
| Vacant | 296 | 63 | Q | Q | Q | Q | Q | 26 | Q | Q |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 275 | 116 | 29 | 84 | Q | 6 | 75 | Q | N |
| 1920 to 1945 | 488 | 367 | 153 | 41 | 100 | Q | 12 | 127 | Q | Q |
| 1946 to 1959 | 599 | 477 | 145 | 76 | 109 | Q | 18 | 185 | Q | Q |
| 1960 to 1969 | 639 | 538 | 192 | 71 | 89 | 11 | 25 | 241 | 13 | Q |
| 1970 to 1979 | 684 | 563 | 203 | 67 | 86 | 9 | 21 | 258 | 16 | Q |
| 1980 to 1989 | 915 | 730 | 234 | 137 | 87 | 3 | 26 | 341 | 13 | Q |
| 1990 to 1999 | 845 | 663 | 235 | 124 | 78 | 10 | 22 | 271 | 15 | Q |
| 2000 to 2003 | 375 | 321 | 106 | 40 | 34 | 5 | 11 | 157 | Q | Q |
| 2004 to 2007 | 347 | 293 | 86 | 58 | 29 | 6 | 9 | 144 | Q | Q |
| 2008 to 2012 | 303 | 235 | 76 | 50 | 12 | Q | 15 | 110 | Q | N |

## Table B40. Cooling equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 5,557 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 592 | 178 | 53 | 190 | 7 | 26 | 253 | Q | Q |
| New England | 302 | 187 | 53 | 16 | 67 | Q | 12 | 81 | Q | Q |
| Middle Atlantic | 504 | 405 | 124 | 38 | 123 | Q | 14 | 172 | Q | Q |
| Midwest | 1,237 | 970 | 480 | 65 | 147 | 2 | 37 | 362 | Q | Q |
| East North Central | 735 | 601 | 305 | 33 | 80 | 2 | 24 | 235 | Q | Q |
| West North Central | 502 | 370 | 175 | 32 | 68 | Q | 13 | 127 | N | Q |
| South | 2,247 | 1,891 | 633 | 409 | 257 | 35 | 70 | 786 | Q | Q |
| South Atlantic | 1,091 | 935 | 251 | 296 | 121 | 22 | 40 | 376 | Q | Q |
| East South Central | 370 | 335 | 112 | 54 | 54 | Q | 8 | 156 | N | N |
| West South Central | 786 | 621 | 270 | 59 | 81 | 6 | 22 | 254 | Q | Q |
| West | 1,267 | 1,007 | 255 | 165 | 114 | 9 | 29 | 508 | 89 | Q |
| Mountain | 338 | 259 | 73 | 31 | 23 | 1 | 12 | 125 | 36 | Q |
| Pacific | 929 | 748 | 182 | 134 | 91 | 8 | 18 | 383 | 53 | Q |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,497 | 586 | 125 | 279 | 7 | 63 | 620 | 51 | Q |
| Mixed-humid | 1,743 | 1,482 | 507 | 337 | 243 | 18 | 48 | 568 | Q | Q |
| Mixed-dry/Hot-dry | 837 | 682 | 182 | 116 | 71 | 7 | 20 | 358 | 42 | Q |
| Hot-humid | 799 | 699 | 255 | 92 | 101 | 21 | 28 | 310 | Q | Q |
| Marine | 147 | 101 | Q | Q | Q | Q | 4 | 53 | Q | Q |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 2,954 | 1,027 | 465 | 394 | 17 | 48 | 1,301 | 89 | Q |
| Two | 1,158 | 994 | 370 | 162 | 163 | 13 | 40 | 419 | 13 | Q |
| Three | 374 | 338 | 120 | 35 | 105 | 8 | 27 | 115 | Q | Q |
| Four to nine | 177 | 163 | 29 | 29 | 44 | 15 | 39 | 69 | Q | Q |
| Ten or more | 13 | 12 | Q | 2 | 3 | 1 | 8 | 6 | Q | Q |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 1,932 | 736 | 272 | 389 | Q | 23 | 644 | 48 | Q |
| 5 to 9 | 1,085 | 999 | 379 | 171 | 127 | Q | 16 | 418 | 26 | Q |
| 10 to 19 | 731 | 699 | 255 | 95 | 88 | Q | 17 | 353 | Q | Q |
| 20 to 49 | 513 | 498 | 136 | 96 | 60 | 9 | 28 | 288 | 8 | Q |
| 50 to 99 | 206 | 203 | 30 | 39 | 23 | 9 | 35 | 132 | 6 | Q |
| 100 to 249 | 93 | 93 | 10 | 13 | 16 | 6 | 27 | 53 | Q | Q |
| 250 or more | 37 | 37 | 1 | 6 | 5 | 5 | 19 | 21 | Q | Q |

## Table B40. Cooling equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 5,557 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 690 | 266 | 110 | 138 | Q | 8 | 231 | Q | Q |
| 40 to 48 | 1,346 | 1,168 | 444 | 175 | 185 | 12 | 34 | 424 | 26 | Q |
| 49 to 60 | 1,244 | 1,084 | 391 | 180 | 149 | 10 | 45 | 460 | 29 | Q |
| 61 to 84 | 764 | 669 | 227 | 113 | 88 | 9 | 21 | 340 | 27 | Q |
| 85 to 167 | 479 | 419 | 113 | 45 | 45 | 12 | 17 | 242 | 12 | Q |
| Open continuously | 575 | 431 | 105 | 69 | 104 | 11 | 37 | 213 | Q | Q |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 4,781 | 3,817 | 1,398 | 567 | 600 | 17 | 89 | 1,646 | 96 | Q |
| Owner occupied | 2,466 | 2,046 | 767 | 323 | 342 | 14 | 52 | 790 | 58 | Q |
| Leased to tenant(s) | 1,745 | 1,421 | 507 | 183 | 203 | 2 | 24 | 692 | 36 | Q |
| Owner occupied and leased | 349 | 324 | 115 | 58 | 50 | 1 | 11 | 155 | Q | Q |
| Unoccupied | 221 | 26 | Q | Q | Q | N | Q | Q | N | N |
| Government owned | 776 | 644 | 148 | 125 | 109 | 37 | 74 | 263 | 14 | Q |
| Federal | 33 | 33 | Q | Q | Q | Q | 6 | 12 | Q | Q |
| State | 185 | 159 | 34 | 30 | 21 | 20 | 21 | 62 | Q | Q |
| Local | 558 | 452 | 102 | 93 | 82 | 16 | 47 | 190 | Q | Q |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 4,715 | 3,740 | 1,288 | 595 | 615 | 53 | 154 | 1,531 | 93 | Q |
| Business owner or tenant | 724 | 625 | 225 | 75 | 80 | Q | 6 | 338 | Q | Q |
| Property management | 54 | 44 | Q | Q | Q | Q | 2 | 23 | Q | Q |
| Other | 64 | 52 | Q | Q | Q | Q | Q | 18 | N | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 4,876 | 3,865 | 1,342 | 617 | 618 | 54 | 155 | 1,604 | 97 Q | |
| Business owner or tenant | 540 | 474 | 165 | 48 | 78 | Q | 5 | 249 | Q | Q |
| Property management | 35 | 32 | Q | Q | Q | Q | Q | 16 | N | Q |
| Other | 106 | 90 | 30 | 24 | Q | Q | Q | 41 | Q | N |

## Table B40. Cooling equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 5,557 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 3,111 | 1,158 | 424 | 490 | Q | 96 | 1,325 | 80 | Q |
| Primary or secondary school | 237 | 207 | 29 | 46 | 32 | 16 | 15 | 98 | Q | N |
| College or university | 84 | 77 | Q | 15 | Q | 24 | 13 | 21 | Q | Q |
| Office complex | 154 | 145 | 47 | 29 | 9 | Q | 5 | 63 | Q | Q |
| Retail complex | 258 | 214 | 82 | 39 | 24 | N | Q | 124 | Q | N |
| Storage complex | 314 | 58 | Q | Q | 21 | N | N | 18 | Q | N |
| Religious campus or complex | 197 | 168 | 57 | 33 | 23 | Q | Q | 73 | Q | Q |
| Health care complex | 52 | 50 | 14 | 9 | 10 | Q | 11 | 24 | Q | Q |
| Lodging or resort complex | 65 | 53 | Q | Q | 30 | Q | 2 | 10 | N | N |
| Transportation complex | 35 | 32 | Q | Q | Q | Q | Q | 7 | N | Q |
| Government complex | 104 | 75 | Q | 14 | 11 | Q | 9 | 36 | Q | Q |
| Other | 371 | 273 | 88 | 60 | 51 | Q | 5 | 111 | Q | Q |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 2,094 | 1,854 | 640 | 279 | 317 | 25 | 77 | 867 | 44 | 1 |
| Addition or annex | 444 | 413 | 148 | 68 | 75 | 5 | 35 | 194 | 11 | Q |
| Reduction in floorspace | 71 | 60 | 28 | 10 | 12 | Q | 1 | 23 | Q | N |
| Roof replacement | 987 | 870 | 307 | 126 | 153 | 10 | 47 | 398 | 18 | Q |
| Exterior wall replacement | 194 | 175 | 57 | 25 | 34 | Q | 6 | 85 | Q | N |
| Interior wall reconfiguration | 889 | 816 | 267 | 127 | 127 | 15 | 36 | 429 | 20 | Q |
| Window replacement | 560 | 516 | 170 | 94 | 90 | Q | 24 | 238 | 15 | Q |
| HVAC equipment upgrade | 1,101 | 1,026 | 346 | 178 | 146 | 18 | 54 | 522 | 21 | Q |
| Lighting upgrade | 982 | 891 | 272 | 149 | 151 | 19 | 47 | 460 | 29 | Q |
| Electrical upgrade | 747 | 675 | 245 | 113 | 123 | 9 | 26 | 314 | 12 | Q |
| Plumbing system upgrade | 644 | 582 | 202 | 98 | 103 | Q | 20 | 290 | 10 | Q |
| Insulation upgrade | 382 | 347 | 124 | 66 | 58 | Q | 14 | 160 | Q | Q |
| Fire, safety, or security upgrade | 616 | 569 | 172 | 100 | 96 | 13 | 34 | 301 | 16 | Q |
| Structural upgrade | 152 | 137 | 41 | 28 | 24 | Q | 6 | 68 | Q | Q |
| Other | 39 | 32 | Q | Q | Q | Q | Q | 19 | Q | N |
| No renovations | 3,160 | 2,372 | 830 | 364 | 380 | 25 | 71 | 933 | 60 | Q |
| Buildings constructed 2008 or later | 303 | 235 | 76 | 50 | 12 | Q | 15 | 110 | Q | N |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| Natural gas | 2,933 | 2,700 | 1,012 | 265 | 385 | 21 | 127 | 1,311 | 69 | Q |
| Fuel oil | 467 | 360 | 70 | 54 | 109 | 8 | 55 | 167 | 6 | Q |
| District heat | 48 | 44 | Q | 2 | 6 | 26 | 8 | 11 | Q | Q |
| District chilled water | 54 | 54 | Q | Q | 2 | 54 | 1 | 7 | Q | Q |
| Propane | 510 | 420 | 160 | 49 | 107 | Q | 10 | 153 | 21 | Q |
| Other | 172 | 126 | 47 | 22 | 26 | Q | 6 | 48 | Q | Q |

## Table B40. Cooling equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 5,557 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 4,413 | 4,413 | 1,546 | 692 | 709 | 13 | 162 | 1,903 | 109 | Q |
| Natural gas | 12 | 12 | Q | Q | Q | Q | 5 | 8 | Q | Q |
| District chilled water | 54 | 54 | Q | Q | 2 | 54 | 1 | 7 | Q | Q |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 4,272 | 1,476 | 685 | 643 | 51 | 158 | 1,841 | 99 | Q |
| Buildings with cooling | 4,461 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| Buildings with water heating | 4,423 | 4,097 | 1,439 | 637 | 619 | 51 | 159 | 1,787 | 102 | 3 |
| Buildings with cooking | 1,589 | 1,497 | 548 | 227 | 242 | 9 | 80 | 687 | 41 | Q |
| Buildings with manufacturing | 259 | 217 | 76 | 24 | 53 | Q | 3 | 103 | Q | Q |
| Buildings with electricity generation | 410 | 386 | 92 | 66 | 65 | 12 | 71 | 201 | 6 | Q |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 1,096 | N | N | N | N | N | N | N | N | N |
| 1 to 50 | 1,173 | 1,173 | 403 | 146 | 326 | Q | 8 | 394 | 36 | Q |
| 51 to 99 | 897 | 897 | 312 | 147 | 123 | 18 | 58 | 435 | 20 | Q |
| 100 | 2,391 | 2,391 | 831 | 399 | 260 | 36 | 97 | 1,081 | 53 | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 628 | 621 | 86 | 549 | 46 | Q | 13 | 118 | 8 | Q |
| Furnaces | 755 | 728 | 530 | 60 | 92 | Q | 10 | 194 | Q | Q |
| Individual space heaters | 1,247 | 1,007 | 325 | 124 | 352 | 7 | 32 | 338 | 55 | Q |
| District heat | 48 | 44 | Q | 2 | 6 | 26 | 8 | 11 | Q | Q |
| Boilers | 544 | 483 | 119 | 55 | 133 | 9 | 106 | 203 | 12 | Q |
| Packaged heating units | 2,802 | 2,633 | 870 | 249 | 258 | 16 | 69 | 1,589 | 57 | Q |
| Other | 62 | 55 | 24 | Q | Q | Q | Q | 23 | Q | N |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 1,546 | 1,546 | 1,546 | 57 | 120 | Q | 6 | 166 | 18 | Q |
| Heat pumps | 692 | 692 | 57 | 692 | 52 | Q | 13 | 113 | 13 | Q |
| Individual air conditioners | 709 | 709 | 120 | 52 | 709 | 2 | 18 | 135 | 12 | Q |
| District chilled water | 54 | 54 | Q | Q | 2 | 54 | 1 | 7 | Q | Q |
| Central chillers | 163 | 163 | 6 | 13 | 18 | 1 | 163 | 47 | 4 | Q |
| Packaged air conditioning units | 1,909 | 1,909 | 166 | 113 | 135 | 7 | 47 | 1,909 | 31 | Q |
| Swamp coolers | 109 | 109 | 18 | 13 | 12 | Q | 4 | 31 | 109 | N |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | N | Q |

## Table B40. Cooling equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 5,557 | 4,461 | 1,546 | 692 | 709 | 54 | 163 | 1,909 | 109 | Q |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 1,874 | 1,714 | 587 | 296 | 295 | Q | 50 | 743 | 40 | Q |
| Cooling | 1,971 | 1,971 | 707 | 310 | 404 | Q | 62 | 793 | 48 | Q |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 97 | 96 | 13 | 22 | 13 | 7 | 26 | 55 | 1 | Q |
| Regular HVAC maintenance | 244 | 242 | 37 | 45 | 31 | 8 | 38 | 150 | 5 | Q |
| Building automation system (BAS)[2] | 238 | 230 | 49 | 48 | 41 | 12 | 43 | 120 | 6 | Q |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 601 | 601 | 85 | 104 | 59 | 23 | 75 | 420 | 20 | 1 |
| Computer-based training room | 3,178 | 3,023 | 982 | 517 | 316 | 47 | 150 | 1,498 | 69 | 3 |
| Student or public computer center | 781 | 757 | 147 | 116 | 56 | 46 | 107 | 450 | 12 | 1 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 3,699 | 3,403 | 1,214 | 517 | 486 | 42 | 128 | 1,488 | 80 | Q |
| Cooling | 3,517 | 3,517 | 1,256 | 519 | 518 | 45 | 128 | 1,530 | 83 | Q |
| Lighting | 4,757 | 4,196 | 1,476 | 654 | 661 | 50 | 158 | 1,781 | 107 | Q |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B41. Cooling equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 87,093 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 6,124 | 2,350 | 983 | 1,027 | Q | Q | 2,154 | 155 | Q |
| 5,001 to 10,000 | 8,900 | 7,304 | 2,968 | 1,193 | 972 | Q | Q | 3,082 | Q | N |
| 10,001 to 25,000 | 14,105 | 12,357 | 3,883 | 1,457 | 1,855 | 145 | 631 | 6,557 | Q | Q |
| 25,001 to 50,000 | 11,917 | 10,813 | 2,526 | 1,866 | 1,606 | Q | 1,095 | 6,466 | Q | Q |
| 50,001 to 100,000 | 13,918 | 13,069 | 1,395 | 2,825 | 1,956 | 567 | 2,724 | 8,705 | 441 | Q |
| 100,001 to 200,000 | 12,415 | 12,152 | 895 | 1,718 | 1,652 | 1,273 | 3,211 | 7,447 | Q | Q |
| 200,001 to 500,000 | 10,724 | 10,518 | 610 | 1,422 | 2,091 | 1,064 | 5,127 | 6,702 | Q | Q |
| Over 500,000 | 7,074 | 6,958 | Q | 1,073 | 1,262 | 1,306 | 4,145 | 4,039 | Q | Q |
| **Principal building activity** | | | | | | | | | | |
| Education | 12,239 | 11,811 | 912 | 2,304 | 2,074 | 1,292 | 4,127 | 5,934 | Q | Q |
| Food sales | 1,252 | 1,190 | 357 | Q | Q | N | Q | 748 | Q | N |
| Food service | 1,819 | 1,712 | 471 | 189 | 204 | Q | Q | 954 | 85 | N |
| Health care | 4,155 | 4,148 | 415 | 738 | 615 | 523 | 2,455 | 2,374 | Q | Q |
| Inpatient | 2,374 | 2,374 | Q | 515 | 537 | 477 | 1,883 | 1,385 | Q | Q |
| Outpatient | 1,781 | 1,774 | 349 | 223 | Q | Q | 572 | 989 | Q | Q |
| Lodging | 5,826 | 5,700 | 749 | 1,124 | 2,349 | Q | 1,658 | 2,379 | Q | Q |
| Mercantile | 11,330 | 11,121 | 2,510 | 1,716 | 763 | N | 419 | 9,094 | 415 | N |
| Retail (other than mall) | 5,439 | 5,230 | 921 | 506 | 432 | N | Q | 3,606 | Q | N |
| Enclosed and strip malls | 5,890 | 5,890 | 1,589 | 1,210 | 331 | N | Q | 5,487 | Q | N |
| Office | 15,952 | 15,882 | 2,270 | 2,913 | 2,184 | 1,096 | 5,050 | 7,993 | Q | Q |
| Public assembly | 5,559 | 5,235 | 948 | 661 | 628 | 880 | 1,038 | 2,672 | Q | Q |
| Public order and safety | 1,440 | 1,384 | 248 | Q | Q | Q | 416 | 804 | Q | Q |
| Religious worship | 4,557 | 4,271 | 1,632 | 714 | 712 | Q | Q | 2,229 | Q | Q |
| Service | 4,630 | 3,773 | 1,143 | 414 | 701 | N | Q | 1,854 | Q | Q |
| Warehouse and storage | 13,077 | 10,120 | 2,567 | 1,216 | 1,566 | N | 465 | 6,472 | Q | Q |
| Other | 2,002 | 1,820 | 382 | Q | Q | Q | 479 | 969 | Q | Q |
| Vacant | 3,256 | 1,125 | Q | Q | Q | Q | Q | 678 | Q | Q |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 3,983 | 3,087 | 755 | 333 | 1,069 | Q | 404 | 1,430 | Q | N |
| 1920 to 1945 | 6,025 | 5,215 | 1,311 | 775 | 1,424 | Q | 1,370 | 2,711 | Q | Q |
| 1946 to 1959 | 7,381 | 6,679 | 996 | 1,097 | 1,485 | 203 | 1,755 | 3,674 | Q | Q |
| 1960 to 1969 | 10,362 | 9,634 | 2,075 | 1,300 | 1,740 | 923 | 2,052 | 5,552 | 299 | Q |
| 1970 to 1979 | 10,846 | 10,031 | 2,044 | 1,330 | 1,649 | 811 | 2,371 | 5,445 | 207 | Q |
| 1980 to 1989 | 15,230 | 14,011 | 2,503 | 2,556 | 1,768 | 310 | 3,210 | 8,585 | 267 | Q |
| 1990 to 1999 | 13,803 | 12,402 | 2,386 | 2,214 | 1,425 | 664 | 2,276 | 7,222 | 344 | Q |
| 2000 to 2003 | 7,215 | 6,939 | 1,102 | 800 | 614 | Q | 1,311 | 4,000 | Q | Q |
| 2004 to 2007 | 6,524 | 6,071 | 805 | 1,195 | 744 | 418 | 1,122 | 3,644 | Q | Q |
| 2008 to 2012 | 5,723 | 5,225 | 786 | 939 | 503 | Q | 1,169 | 2,890 | Q | N |

## Table B41. Cooling equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 87,093 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 15,534 | 13,949 | 1,695 | 1,490 | 3,845 | 794 | 3,489 | 8,697 | Q | Q |
| New England | 4,302 | 3,482 | 451 | 388 | 1,035 | Q | 783 | 2,062 | Q | Q |
| Middle Atlantic | 11,232 | 10,467 | 1,244 | 1,103 | 2,810 | 656 | 2,706 | 6,635 | Q | Q |
| Midwest | 18,919 | 17,144 | 4,347 | 1,024 | 2,585 | 585 | 4,475 | 9,816 | Q | Q |
| East North Central | 12,742 | 11,675 | 2,854 | 604 | 1,806 | 420 | 3,484 | 6,839 | Q | Q |
| West North Central | 6,178 | 5,469 | 1,493 | 421 | 779 | Q | 991 | 2,977 | N | Q |
| South | 34,279 | 31,734 | 5,895 | 7,108 | 4,263 | 2,479 | 6,460 | 17,185 | 469 | Q |
| South Atlantic | 17,981 | 17,094 | 2,574 | 4,925 | 2,484 | 1,202 | 3,884 | 9,119 | Q | Q |
| East South Central | 4,904 | 4,710 | 891 | 839 | 808 | Q | 831 | 2,686 | N | N |
| West South Central | 11,394 | 9,931 | 2,429 | 1,344 | 971 | 773 | 1,746 | 5,379 | Q | Q |
| West | 18,360 | 16,467 | 2,828 | 2,916 | 1,727 | 749 | 2,617 | 9,455 | 1,340 | Q |
| Mountain | 4,981 | 4,489 | 668 | 672 | 565 | Q | 920 | 2,314 | 722 | Q |
| Pacific | 13,379 | 11,978 | 2,160 | 2,244 | 1,162 | 329 | 1,697 | 7,141 | 617 | Q |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 31,898 | 28,228 | 5,468 | 2,457 | 5,046 | 1,227 | 6,757 | 16,452 | 680 | Q |
| Mixed-humid | 27,873 | 26,365 | 4,620 | 6,173 | 4,683 | 2,027 | 5,913 | 14,627 | Q | Q |
| Mixed-dry/Hot-dry | 12,037 | 10,887 | 2,250 | 1,876 | 1,025 | Q | 1,348 | 6,306 | 710 | Q |
| Hot-humid | 12,831 | 11,624 | 2,319 | 1,451 | 1,344 | 752 | 2,474 | 6,449 | Q | Q |
| Marine | 2,454 | 2,190 | Q | 581 | 322 | Q | 549 | 1,318 | Q | Q |
| **Number of floors** | | | | | | | | | | |
| One | 39,809 | 34,156 | 8,638 | 5,319 | 3,436 | 219 | 2,072 | 21,523 | 1,161 | Q |
| Two | 20,206 | 19,012 | 4,035 | 3,056 | 3,034 | 578 | 3,075 | 11,281 | 357 | Q |
| Three | 8,140 | 7,734 | 1,185 | 1,155 | 1,960 | 404 | 2,116 | 3,795 | Q | Q |
| Four to nine | 13,535 | 13,036 | 816 | 2,029 | 2,851 | 2,523 | 5,873 | 6,087 | Q | Q |
| Ten or more | 5,404 | 5,356 | Q | 979 | 1,138 | 883 | 3,905 | 2,466 | Q | Q |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 17,751 | 11,595 | 3,835 | 1,498 | 1,963 | Q | 531 | 4,823 | 181 | Q |
| 5 to 9 | 8,973 | 8,238 | 2,699 | 1,127 | 1,204 | Q | 334 | 3,980 | 196 | Q |
| 10 to 19 | 9,623 | 9,190 | 2,854 | 1,442 | 1,348 | Q | 475 | 5,020 | Q | Q |
| 20 to 49 | 14,514 | 14,219 | 2,827 | 2,657 | 2,253 | 505 | 1,765 | 9,001 | 312 | Q |
| 50 to 99 | 13,476 | 13,323 | 1,445 | 2,538 | 1,630 | 683 | 3,087 | 9,135 | 461 | Q |
| 100 to 249 | 10,941 | 10,913 | 886 | 1,358 | 1,868 | 982 | 3,736 | 6,713 | Q | Q |
| 250 or more | 11,815 | 11,815 | 218 | 1,918 | 2,153 | 1,986 | 7,112 | 6,481 | Q | Q |

## Table B41. Cooling equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 87,093 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 8,220 | 5,083 | 1,601 | 590 | 947 | Q | 358 | 2,233 | Q | Q |
| 40 to 48 | 15,828 | 14,512 | 3,289 | 2,362 | 1,994 | 521 | 2,421 | 7,330 | 281 | Q |
| 49 to 60 | 20,529 | 19,297 | 3,857 | 3,546 | 2,510 | 805 | 4,040 | 10,475 | 489 | Q |
| 61 to 84 | 15,867 | 15,170 | 2,885 | 2,672 | 1,671 | 524 | 2,560 | 9,911 | 403 | Q |
| 85 to 167 | 9,395 | 8,864 | 1,300 | 793 | 1,140 | 606 | 1,764 | 6,117 | 364 | Q |
| Open continuously | 17,253 | 16,368 | 1,832 | 2,574 | 4,158 | 2,005 | 5,897 | 9,087 | 325 | Q |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 67,550 | 60,960 | 12,846 | 9,142 | 9,115 | 2,104 | 10,175 | 36,119 | 1,373 | Q |
| Owner occupied | 30,637 | 28,174 | 6,442 | 4,113 | 4,591 | 1,478 | 4,184 | 15,037 | 643 | Q |
| Leased to tenant(s) | 26,115 | 23,907 | 4,937 | 3,345 | 2,856 | 297 | 3,678 | 15,687 | 576 | Q |
| Owner occupied and leased | 8,873 | 8,602 | 1,431 | 1,673 | 1,657 | 329 | 2,278 | 5,186 | Q | Q |
| Unoccupied | 1,925 | 278 | Q | Q | Q | N | Q | Q | N | N |
| Government owned | 19,543 | 18,334 | 1,919 | 3,396 | 3,305 | 2,504 | 6,866 | 9,034 | 545 | Q |
| Federal | 1,573 | 1,573 | Q | Q | 407 | Q | 932 | 682 | Q | Q |
| State | 5,539 | 5,252 | 511 | 636 | 761 | 1,448 | 1,798 | 2,246 | Q | Q |
| Local | 12,431 | 11,508 | 1,250 | 2,582 | 2,137 | 612 | 4,135 | 6,106 | Q | Q |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 73,702 | 66,684 | 11,848 | 10,780 | 10,852 | 4,482 | 15,919 | 36,215 | 1,665 | 288 |
| Business owner or tenant | 11,309 | 10,677 | 2,562 | 1,414 | 1,156 | Q | 628 | 7,879 | Q | Q |
| Property management | 1,250 | 1,172 | Q | Q | Q | Q | 427 | 651 | Q | Q |
| Other | 832 | 761 | Q | Q | Q | Q | Q | 407 | N | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 76,271 | 69,045 | 12,623 | 11,056 | 11,040 | 4,441 | 15,966 | 37,841 | 1,743 | 303 |
| Business owner or tenant | 8,256 | 7,825 | 1,698 | 1,026 | 1,067 | Q | 528 | 5,763 | Q | Q |
| Property management | 880 | 840 | Q | Q | Q | Q | Q | 566 | N | Q |
| Other | 1,686 | 1,583 | 363 | 361 | Q | Q | Q | 982 | Q | N |

## Table B41. Cooling equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 87,093 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 48,314 | 10,348 | 6,993 | 7,505 | Q | 9,588 | 28,415 | 1,188 | Q |
| Primary or secondary school | 4,616 | 4,381 | 411 | 1,077 | 988 | 187 | 1,204 | 2,533 | Q | N |
| College or university | 4,068 | 3,924 | Q | 333 | Q | 2,162 | 1,057 | 844 | Q | Q |
| Office complex | 3,456 | 3,361 | 288 | 800 | 342 | Q | 1,013 | 1,816 | Q | Q |
| Retail complex | 5,159 | 4,831 | 1,213 | 940 | 283 | N | Q | 3,998 | Q | N |
| Storage complex | 3,212 | 1,244 | Q | Q | 333 | N | N | 715 | Q | N |
| Religious campus or complex | 1,932 | 1,722 | 498 | 338 | 248 | Q | Q | 938 | Q | Q |
| Health care complex | 3,362 | 3,316 | 246 | 571 | 640 | 730 | 1,987 | 1,578 | Q | Q |
| Lodging or resort complex | 1,295 | 1,258 | Q | Q | 533 | Q | 361 | 341 | N | N |
| Transportation complex | 554 | 481 | Q | Q | Q | Q | Q | 213 | N | Q |
| Government complex | 2,107 | 1,953 | Q | 272 | 568 | Q | 748 | 1,063 | Q | Q |
| Other | 5,057 | 4,509 | 1,075 | 823 | 605 | Q | 586 | 2,699 | Q | Q |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 42,216 | 40,191 | 6,835 | 6,446 | 7,346 | 2,626 | 10,705 | 24,655 | 929 | 261 |
| Addition or annex | 13,022 | 12,778 | 1,841 | 2,050 | 2,877 | 863 | 4,542 | 8,301 | 307 | Q |
| Reduction in floorspace | 1,753 | 1,701 | 349 | 335 | 420 | Q | 465 | 973 | Q | N |
| Roof replacement | 20,917 | 20,036 | 2,908 | 3,285 | 4,057 | 1,276 | 6,553 | 12,529 | 272 | Q |
| Exterior wall replacement | 4,230 | 4,119 | 699 | 675 | 1,057 | Q | 1,107 | 2,855 | Q | N |
| Interior wall reconfiguration | 21,340 | 20,820 | 3,124 | 3,355 | 4,020 | 1,798 | 6,349 | 13,163 | 622 | Q |
| Window replacement | 12,265 | 11,724 | 1,867 | 2,049 | 2,600 | 701 | 3,789 | 7,060 | 289 | Q |
| HVAC equipment upgrade | 26,779 | 26,091 | 4,185 | 4,569 | 4,840 | 1,907 | 8,124 | 16,638 | 652 | Q |
| Lighting upgrade | 25,503 | 24,754 | 3,602 | 4,161 | 4,695 | 2,002 | 7,670 | 15,750 | 672 | Q |
| Electrical upgrade | 16,160 | 15,609 | 2,917 | 2,896 | 3,337 | 1,335 | 5,048 | 9,705 | 530 | Q |
| Plumbing system upgrade | 13,828 | 13,453 | 2,391 | 2,454 | 2,870 | 1,029 | 4,254 | 8,468 | 402 | Q |
| Insulation upgrade | 7,607 | 7,262 | 1,477 | 1,486 | 1,500 | 710 | 2,117 | 4,318 | Q | Q |
| Fire, safety, or security upgrade | 17,196 | 16,710 | 2,318 | 3,277 | 3,656 | 1,343 | 6,233 | 10,322 | 572 | Q |
| Structural upgrade | 3,913 | 3,794 | 561 | 777 | 740 | Q | 1,156 | 2,231 | Q | Q |
| Other | 848 | 819 | Q | Q | Q | Q | Q | 512 | Q | N |
| No renovations | 39,154 | 33,877 | 7,144 | 5,152 | 4,571 | 1,802 | 5,166 | 17,608 | 896 | Q |
| Buildings constructed 2008 or later | 5,723 | 5,225 | 786 | 939 | 503 | Q | 1,169 | 2,890 | Q | N |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 84,869 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| Natural gas | 58,725 | 56,899 | 10,504 | 8,017 | 9,137 | 2,431 | 13,745 | 34,917 | 1,536 | 290 |
| Fuel oil | 20,200 | 19,309 | 1,335 | 2,873 | 4,046 | 2,134 | 9,596 | 11,023 | 519 | Q |
| District heat | 5,964 | 5,903 | Q | 575 | 902 | 3,730 | 1,958 | 2,072 | Q | Q |
| District chilled water | 4,608 | 4,608 | Q | 268 | 636 | 4,608 | 393 | 833 | Q | Q |
| Propane | 7,706 | 7,061 | 1,522 | 875 | 1,417 | Q | 1,122 | 4,277 | 316 | Q |
| Other | 3,826 | 3,573 | 550 | 540 | 623 | Q | 989 | 2,224 | Q | Q |

## Table B41. Cooling equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 87,093 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| **Cooling energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 76,034 | 76,034 | 14,765 | 12,538 | 12,420 | 1,586 | 16,872 | 45,047 | 1,918 | 328 |
| Natural gas | 732 | 732 | Q | Q | 174 | Q | 629 | 389 | Q | Q |
| District chilled water | 4,608 | 4,608 | Q | 268 | 636 | 4,608 | 393 | 833 | Q | Q |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 80,078 | 76,834 | 14,158 | 12,464 | 11,953 | 4,561 | 16,685 | 43,820 | 1,879 | 328 |
| Buildings with cooling | 79,294 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| Buildings with water heating | 79,015 | 76,414 | 14,089 | 12,214 | 11,960 | 4,511 | 16,843 | 43,713 | 1,878 | 319 |
| Buildings with cooking | 38,546 | 37,687 | 6,055 | 6,821 | 7,171 | 2,084 | 11,888 | 22,792 | 973 | Q |
| Buildings with manufacturing | 5,078 | 4,682 | 1,038 | 518 | 1,015 | Q | 488 | 2,998 | Q | Q |
| Buildings with electricity generation | 25,642 | 25,350 | 1,920 | 3,949 | 4,350 | 2,731 | 11,601 | 14,869 | 603 | Q |
| **Percent of floorspace cooled** | | | | | | | | | | |
| Not cooled | 7,799 | N | N | N | N | N | N | N | N | N |
| 1 to 50 | 18,891 | 18,891 | 5,109 | 2,214 | 4,303 | Q | 918 | 10,569 | 646 | Q |
| 51 to 99 | 22,728 | 22,728 | 3,376 | 3,930 | 3,662 | 1,953 | 7,090 | 13,777 | 554 | Q |
| 100 | 37,676 | 37,676 | 6,280 | 6,393 | 4,455 | 2,569 | 9,033 | 20,807 | 718 | Q |
| **Heating equipment (more than one may apply)** | | | | | | | | | | |
| Heat pumps | 11,846 | 11,772 | 1,516 | 10,037 | 2,015 | 325 | 2,333 | 5,282 | 379 | Q |
| Furnaces | 8,654 | 8,514 | 4,906 | 1,365 | 1,318 | Q | 579 | 4,004 | Q | Q |
| Individual space heaters | 20,766 | 19,159 | 3,884 | 3,016 | 6,038 | 888 | 4,128 | 11,336 | 713 | Q |
| District heat | 5,925 | 5,864 | Q | 556 | 902 | 3,718 | 1,948 | 2,056 | Q | Q |
| Boilers | 22,443 | 21,579 | 2,073 | 3,179 | 5,083 | 582 | 11,683 | 11,510 | 486 | Q |
| Packaged heating units | 49,188 | 48,053 | 8,975 | 6,851 | 6,096 | 756 | 7,259 | 35,944 | 1,416 | Q |
| Other | 1,574 | 1,534 | 356 | Q | Q | Q | Q | 1,228 | Q | N |
| **Cooling equipment (more than one may apply)** | | | | | | | | | | |
| Residential-type central air conditioners | 14,765 | 14,765 | 14,765 | 1,133 | 1,544 | Q | 457 | 3,800 | 299 | Q |
| Heat pumps | 12,538 | 12,538 | 1,133 | 12,538 | 1,915 | 268 | 2,095 | 5,460 | 477 | Q |
| Individual air conditioners | 12,420 | 12,420 | 1,544 | 1,915 | 12,420 | 636 | 2,757 | 6,177 | 259 | Q |
| District chilled water | 4,608 | 4,608 | Q | 268 | 636 | 4,608 | 393 | 833 | Q | Q |
| Central chillers | 17,041 | 17,041 | 457 | 2,095 | 2,757 | 393 | 17,041 | 6,959 | 420 | Q |
| Packaged air conditioning units | 45,153 | 45,153 | 3,800 | 5,460 | 6,177 | 833 | 6,959 | 45,153 | 980 | Q |
| Swamp coolers | 1,918 | 1,918 | 299 | 477 | 259 | Q | 420 | 980 | 1,918 | N |
| Other | 328 | 328 | Q | Q | Q | Q | Q | Q | N | 328 |

## Table B41. Cooling equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling equipment (more than one may apply) | | | | | | | |
| | All buildings | Buildings with cooling | Residential-type central air conditioners | Heat pumps | Individual air conditioners | District chilled water | Central chillers | Packaged air conditioning units | Swamp coolers | Other |
| **All buildings** | 87,093 | 79,294 | 14,765 | 12,538 | 12,420 | 4,608 | 17,041 | 45,153 | 1,918 | 328 |
| **Main equipment replaced since 1990 (more than one may apply)** | | | | | | | | | | |
| Heating | 27,558 | 26,409 | 5,304 | 5,000 | 5,084 | Q | 4,819 | 16,229 | 525 | Q |
| Cooling | 30,702 | 30,702 | 6,332 | 5,424 | 6,522 | Q | 6,679 | 18,251 | 593 | Q |
| **HVAC conservation features (more than one may apply)** | | | | | | | | | | |
| Economizer cycle | 11,105 | 11,093 | 453 | 2,215 | 2,279 | 1,682 | 5,842 | 6,206 | 204 | Q |
| Regular HVAC maintenance | 17,723 | 17,589 | 1,291 | 3,103 | 3,079 | 1,792 | 7,127 | 10,728 | 522 | Q |
| Building automation system (BAS)[2] | 14,341 | 14,090 | 1,483 | 2,607 | 2,774 | 1,793 | 5,379 | 7,523 | 371 | Q |
| **Separate computer areas (more than one may apply)** | | | | | | | | | | |
| Data center or server farm | 30,749 | 30,749 | 1,983 | 5,147 | 4,218 | 2,929 | 11,210 | 20,743 | 730 | 265 |
| Computer-based training room | 69,244 | 67,839 | 11,049 | 11,344 | 9,663 | 4,276 | 16,544 | 40,519 | 1,645 | 319 |
| Student or public computer center | 37,051 | 36,692 | 2,808 | 5,759 | 4,350 | 3,944 | 14,272 | 22,155 | 913 | 288 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | | | |
| Heating | 63,167 | 61,087 | 11,286 | 10,063 | 8,745 | 3,180 | 13,143 | 35,824 | 1,601 | 288 |
| Cooling | 62,516 | 62,516 | 11,810 | 10,190 | 8,973 | 3,070 | 13,606 | 36,602 | 1,515 | 275 |
| Lighting | 78,594 | 74,511 | 14,171 | 11,946 | 11,558 | 4,303 | 16,238 | 41,967 | 1,914 | 302 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B42. Water-heating equipment, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Type of water-heating equipment | | | | | Type of water-heating equipment | | |
| | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems |
| **All buildings** | 5,557 | 4,423 | 3,348 | 690 | 385 | 87,093 | 79,015 | 47,534 | 12,688 | 18,793 |
| **Building floorspace (square feet)** | | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,032 | 1,653 | 322 | 57 | 8,041 | 6,102 | 4,906 | 1,011 | 185 |
| 5,001 to 10,000 | 1,229 | 992 | 789 | 120 | 82 | 8,900 | 7,236 | 5,731 | 890 | 615 |
| 10,001 to 25,000 | 884 | 775 | 538 | 143 | 93 | 14,105 | 12,401 | 8,549 | 2,318 | 1,534 |
| 25,001 to 50,000 | 332 | 307 | 198 | 57 | 51 | 11,917 | 11,007 | 7,125 | 1,983 | 1,899 |
| 50,001 to 100,000 | 199 | 186 | 103 | 28 | 55 | 13,918 | 13,063 | 7,181 | 1,904 | 3,978 |
| 100,001 to 200,000 | 90 | 86 | 45 | 13 | 29 | 12,415 | 11,903 | 6,120 | 1,846 | 3,937 |
| 200,001 to 500,000 | 38 | 36 | 17 | 5 | 14 | 10,724 | 10,351 | 4,924 | 1,516 | 3,911 |
| Over 500,000 | 8 | 8 | 4 | 1 | 3 | 7,074 | 6,951 | 2,998 | 1,220 | 2,734 |
| **Principal building activity** | | | | | | | | | | |
| Education | 389 | 332 | 244 | 51 | 38 | 12,239 | 11,905 | 7,580 | 1,269 | 3,057 |
| Food sales | 177 | 177 | 155 | Q | Q | 1,252 | 1,252 | 883 | Q | Q |
| Food service | 380 | 379 | 307 | 33 | 39 | 1,819 | 1,817 | 1,449 | 130 | 237 |
| Health care | 157 | 156 | 124 | 22 | 10 | 4,155 | 4,153 | 2,630 | 449 | 1,074 |
| Inpatient | 10 | 10 | 6 | Q | 2 | 2,374 | 2,374 | 1,419 | Q | 860 |
| Outpatient | 147 | 146 | 118 | 21 | Q | 1,781 | 1,779 | 1,211 | 354 | Q |
| Lodging | 158 | 158 | 132 | 7 | 19 | 5,826 | 5,821 | 4,418 | 369 | 1,034 |
| Mercantile | 602 | 531 | 342 | 90 | 99 | 11,330 | 10,960 | 4,705 | 1,492 | 4,763 |
| Retail (other than mall) | 438 | 367 | 270 | 80 | 17 | 5,439 | 5,070 | 2,932 | 1,013 | 1,125 |
| Enclosed and strip malls | 164 | 164 | 72 | 10 | 82 | 5,890 | 5,890 | 1,773 | 479 | 3,638 |
| Office | 1,012 | 943 | 713 | 160 | 71 | 15,952 | 15,663 | 8,724 | 2,934 | 4,006 |
| Public assembly | 352 | 317 | 248 | 41 | 28 | 5,559 | 5,318 | 3,389 | 514 | 1,415 |
| Public order and safety | 84 | 80 | 72 | Q | Q | 1,440 | 1,341 | 1,139 | Q | Q |
| Religious worship | 412 | 383 | 290 | 70 | 23 | 4,557 | 4,337 | 2,850 | 711 | 776 |
| Service | 619 | 442 | 347 | 80 | Q | 4,630 | 3,763 | 2,695 | 669 | Q |
| Warehouse and storage | 796 | 370 | 252 | 93 | 26 | 13,077 | 10,041 | 5,204 | 3,449 | 1,388 |
| Other | 125 | 98 | 81 | Q | Q | 2,002 | 1,614 | 1,170 | Q | Q |
| Vacant | 296 | 56 | 44 | Q | Q | 3,256 | 1,031 | 700 | Q | Q |
| **Year constructed** | | | | | | | | | | |
| Before 1920 | 362 | 286 | 232 | 39 | 15 | 3,983 | 3,403 | 2,287 | 526 | 590 |
| 1920 to 1945 | 488 | 383 | 288 | 69 | 26 | 6,025 | 5,299 | 2,918 | 743 | 1,638 |
| 1946 to 1959 | 599 | 460 | 356 | 78 | 26 | 7,381 | 6,410 | 4,305 | 943 | 1,162 |
| 1960 to 1969 | 639 | 540 | 427 | 60 | 53 | 10,362 | 9,699 | 6,252 | 1,005 | 2,442 |
| 1970 to 1979 | 684 | 577 | 435 | 87 | 55 | 10,846 | 10,158 | 6,298 | 1,773 | 2,087 |
| 1980 to 1989 | 915 | 727 | 527 | 139 | 61 | 15,230 | 13,831 | 7,338 | 2,888 | 3,605 |
| 1990 to 1999 | 845 | 631 | 498 | 86 | 48 | 13,803 | 12,209 | 7,417 | 1,724 | 3,069 |
| 2000 to 2003 | 375 | 312 | 235 | 45 | 32 | 7,215 | 6,889 | 4,098 | 1,145 | 1,646 |
| 2004 to 2007 | 347 | 275 | 190 | 47 | 38 | 6,524 | 5,955 | 3,445 | 1,007 | 1,503 |
| 2008 to 2012 | 303 | 231 | 161 | 39 | 30 | 5,723 | 5,162 | 3,176 | 933 | 1,053 |

## Table B42. Water-heating equipment, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Type of water-heating equipment | | | | | Type of water-heating equipment | | |
| | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems |
| **All buildings** | 5,557 | 4,423 | 3,348 | 690 | 385 | 87,093 | 79,015 | 47,534 | 12,688 | 18,793 |
| **Census region and division** | | | | | | | | | | |
| Northeast | 805 | 671 | 493 | 123 | 56 | 15,534 | 14,633 | 9,128 | 2,383 | 3,122 |
| New England | 302 | 235 | 166 | 40 | 30 | 4,302 | 3,915 | 2,487 | 586 | 843 |
| Middle Atlantic | 504 | 436 | 327 | 83 | 26 | 11,232 | 10,718 | 6,641 | 1,797 | 2,279 |
| Midwest | 1,237 | 1,014 | 806 | 133 | 76 | 18,919 | 17,592 | 11,316 | 2,335 | 3,942 |
| East North Central | 735 | 629 | 490 | 90 | 49 | 12,742 | 12,082 | 7,606 | 1,671 | 2,804 |
| West North Central | 502 | 385 | 316 | 43 | 27 | 6,178 | 5,510 | 3,710 | 663 | 1,137 |
| South | 2,247 | 1,740 | 1,322 | 264 | 154 | 34,279 | 30,261 | 17,460 | 4,938 | 7,863 |
| South Atlantic | 1,091 | 856 | 617 | 160 | 79 | 17,981 | 16,144 | 8,889 | 3,030 | 4,226 |
| East South Central | 370 | 325 | 268 | 28 | 29 | 4,904 | 4,598 | 2,745 | 437 | 1,416 |
| West South Central | 786 | 560 | 437 | 76 | 46 | 11,394 | 9,519 | 5,826 | 1,471 | 2,222 |
| West | 1,267 | 997 | 728 | 170 | 99 | 18,360 | 16,529 | 9,631 | 3,032 | 3,866 |
| Mountain | 338 | 260 | 195 | 36 | 29 | 4,981 | 4,440 | 2,573 | 699 | 1,168 |
| Pacific | 929 | 737 | 533 | 135 | 69 | 13,379 | 12,089 | 7,058 | 2,333 | 2,698 |
| **Climate region[1]** | | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,639 | 1,261 | 242 | 136 | 31,898 | 29,567 | 18,894 | 4,184 | 6,489 |
| Mixed-humid | 1,743 | 1,445 | 1,120 | 201 | 124 | 27,873 | 25,772 | 15,231 | 3,619 | 6,922 |
| Mixed-dry/Hot-dry | 837 | 635 | 457 | 124 | 54 | 12,037 | 10,585 | 6,259 | 2,221 | 2,105 |
| Hot-humid | 799 | 590 | 431 | 104 | 55 | 12,831 | 10,837 | 5,983 | 2,298 | 2,556 |
| Marine | 147 | 113 | 78 | Q | 16 | 2,454 | 2,255 | 1,168 | 366 | 721 |
| **Number of floors** | | | | | | | | | | |
| One | 3,836 | 2,862 | 2,179 | 451 | 231 | 39,809 | 33,591 | 20,177 | 6,094 | 7,321 |
| Two | 1,158 | 1,039 | 786 | 156 | 97 | 20,206 | 19,088 | 11,762 | 3,133 | 4,194 |
| Three | 374 | 344 | 259 | 58 | 26 | 8,140 | 7,932 | 5,148 | 1,181 | 1,602 |
| Four to nine | 177 | 166 | 118 | 23 | 26 | 13,535 | 13,141 | 7,998 | 1,646 | 3,497 |
| Ten or more | 13 | 12 | 6 | 2 | 5 | 5,404 | 5,264 | 2,450 | 635 | 2,179 |
| **Number of workers (main shift)** | | | | | | | | | | |
| Fewer than 5 | 2,892 | 1,917 | 1,547 | 292 | 78 | 17,751 | 11,783 | 8,984 | 1,713 | 1,086 |
| 5 to 9 | 1,085 | 977 | 777 | 140 | 61 | 8,973 | 8,205 | 6,262 | 1,188 | 755 |
| 10 to 19 | 731 | 700 | 515 | 118 | 66 | 9,623 | 9,137 | 6,320 | 1,690 | 1,126 |
| 20 to 49 | 513 | 495 | 319 | 78 | 98 | 14,514 | 14,097 | 7,957 | 2,282 | 3,859 |
| 50 to 99 | 206 | 203 | 122 | 36 | 46 | 13,476 | 13,171 | 7,105 | 2,192 | 3,873 |
| 100 to 249 | 93 | 93 | 51 | 20 | 23 | 10,941 | 10,912 | 5,614 | 1,893 | 3,404 |
| 250 or more | 37 | 37 | 17 | 6 | 14 | 11,815 | 11,711 | 5,292 | 1,730 | 4,689 |

## Table B42. Water-heating equipment, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Type of water-heating equipment | | | | | Type of water-heating equipment | | |
| | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems |
| **All buildings** | 5,557 | 4,423 | 3,348 | 690 | 385 | 87,093 | 79,015 | 47,534 | 12,688 | 18,793 |
| **Weekly operating hours** | | | | | | | | | | |
| Fewer than 40 | 1,149 | 703 | 575 | 97 | 31 | 8,220 | 5,137 | 3,777 | 659 | 701 |
| 40 to 48 | 1,346 | 1,107 | 843 | 193 | 71 | 15,828 | 14,388 | 9,155 | 2,631 | 2,602 |
| 49 to 60 | 1,244 | 1,063 | 789 | 184 | 89 | 20,529 | 18,878 | 11,623 | 3,487 | 3,768 |
| 61 to 84 | 764 | 676 | 467 | 111 | 98 | 15,867 | 15,304 | 7,601 | 2,621 | 5,082 |
| 85 to 167 | 479 | 428 | 315 | 67 | 46 | 9,395 | 8,937 | 5,247 | 1,470 | 2,220 |
| Open continuously | 575 | 447 | 359 | 38 | 49 | 17,253 | 16,371 | 10,131 | 1,820 | 4,420 |
| **Ownership and occupancy** | | | | | | | | | | |
| Nongovernment owned | 4,781 | 3,791 | 2,851 | 617 | 323 | 67,550 | 60,645 | 35,837 | 11,091 | 13,717 |
| Owner occupied | 2,466 | 2,048 | 1,634 | 289 | 125 | 30,637 | 27,869 | 19,154 | 4,090 | 4,626 |
| Leased to tenant(s) | 1,745 | 1,401 | 1,001 | 251 | 149 | 26,115 | 23,900 | 12,749 | 4,804 | 6,347 |
| Owner occupied and leased | 349 | 316 | 195 | 75 | 46 | 8,873 | 8,544 | 3,698 | 2,181 | 2,665 |
| Unoccupied | 221 | 26 | 21 | Q | Q | 1,925 | 332 | 237 | Q | Q |
| Government owned | 776 | 632 | 497 | 72 | 62 | 19,543 | 18,370 | 11,697 | 1,596 | 5,076 |
| Federal | 33 | 33 | 29 | Q | 3 | 1,573 | 1,565 | 837 | Q | 626 |
| State | 185 | 146 | 106 | 22 | 19 | 5,539 | 5,270 | 3,188 | 746 | 1,336 |
| Local | 558 | 452 | 362 | 50 | 40 | 12,431 | 11,535 | 7,672 | 749 | 3,115 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | | | |
| Building owner | 4,715 | 3,706 | 2,841 | 580 | 285 | 73,702 | 66,462 | 41,135 | 10,474 | 14,852 |
| Business owner or tenant | 724 | 617 | 432 | 98 | 87 | 11,309 | 10,617 | 5,269 | 1,896 | 3,452 |
| Property management | 54 | 42 | 29 | Q | 7 | 1,250 | 1,177 | 600 | Q | 400 |
| Other | 64 | 57 | 46 | Q | Q | 832 | 759 | 531 | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | | | |
| Building owner | 4,876 | 3,830 | 2,933 | 591 | 306 | 76,271 | 68,848 | 42,370 | 10,971 | 15,507 |
| Business owner or tenant | 540 | 466 | 317 | 85 | 64 | 8,256 | 7,779 | 3,962 | 1,345 | 2,471 |
| Property management | 35 | 29 | 23 | Q | Q | 880 | 784 | 378 | Q | Q |
| Other | 106 | 98 | 75 | Q | 12 | 1,686 | 1,605 | 824 | Q | 549 |

## Table B42. Water-heating equipment, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Type of water-heating equipment | | | | | Type of water-heating equipment | | |
| | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems |
| **All buildings** | 5,557 | 4,423 | 3,348 | 690 | 385 | 87,093 | 79,015 | 47,534 | 12,688 | 18,793 |
| **Campus or complex activity** | | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 3,084 | 2,369 | 467 | 248 | 52,275 | 47,942 | 29,176 | 8,061 | 10,705 |
| Primary or secondary school | 237 | 165 | 115 | 32 | 19 | 4,616 | 4,214 | 2,522 | 496 | 1,196 |
| College or university | 84 | 79 | 63 | 8 | 8 | 4,068 | 4,010 | 2,951 | 472 | 587 |
| Office complex | 154 | 141 | 93 | 33 | 15 | 3,456 | 3,395 | 1,606 | 691 | 1,097 |
| Retail complex | 258 | 218 | 139 | 26 | 53 | 5,159 | 4,921 | 2,014 | 482 | 2,425 |
| Storage complex | 314 | 52 | 29 | 22 | Q | 3,212 | 1,284 | 643 | 545 | Q |
| Religious campus or complex | 197 | 181 | 136 | 36 | Q | 1,932 | 1,810 | 1,159 | 344 | Q |
| Health care complex | 52 | 50 | 42 | Q | 7 | 3,362 | 3,314 | 2,278 | Q | 912 |
| Lodging or resort complex | 65 | 61 | 53 | Q | Q | 1,295 | 1,275 | 1,048 | Q | Q |
| Transportation complex | 35 | 32 | 27 | Q | (*) | 554 | 494 | 193 | Q | 200 |
| Government complex | 104 | 81 | 71 | Q | 2 | 2,107 | 1,886 | 1,359 | Q | 415 |
| Other | 371 | 278 | 209 | 49 | 20 | 5,057 | 4,470 | 2,584 | 1,228 | 658 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | | | |
| Any type of renovation | 2,094 | 1,886 | 1,393 | 297 | 196 | 42,216 | 40,289 | 22,231 | 6,390 | 11,668 |
| Addition or annex | 444 | 424 | 296 | 74 | 54 | 13,022 | 12,835 | 7,022 | 1,819 | 3,994 |
| Reduction in floorspace | 71 | 62 | 52 | Q | 5 | 1,753 | 1,715 | 935 | Q | 485 |
| Roof replacement | 987 | 881 | 654 | 133 | 94 | 20,917 | 20,189 | 10,907 | 3,186 | 6,095 |
| Exterior wall replacement | 194 | 174 | 130 | 27 | 17 | 4,230 | 4,144 | 2,261 | 788 | 1,096 |
| Interior wall reconfiguration | 889 | 813 | 563 | 136 | 114 | 21,340 | 20,777 | 10,449 | 3,418 | 6,911 |
| Window replacement | 560 | 526 | 352 | 107 | 66 | 12,265 | 11,984 | 6,237 | 1,983 | 3,765 |
| HVAC equipment upgrade | 1,101 | 1,019 | 722 | 173 | 123 | 26,779 | 26,061 | 13,578 | 4,230 | 8,253 |
| Lighting upgrade | 982 | 920 | 660 | 150 | 110 | 25,503 | 24,671 | 12,695 | 3,900 | 8,076 |
| Electrical upgrade | 747 | 681 | 487 | 109 | 85 | 16,160 | 15,675 | 8,123 | 2,398 | 5,154 |
| Plumbing system upgrade | 644 | 601 | 422 | 98 | 81 | 13,828 | 13,544 | 7,147 | 1,944 | 4,452 |
| Insulation upgrade | 382 | 353 | 248 | 61 | 44 | 7,607 | 7,331 | 3,785 | 1,176 | 2,370 |
| Fire, safety, or security upgrade | 616 | 585 | 407 | 101 | 77 | 17,196 | 16,864 | 8,874 | 2,709 | 5,281 |
| Structural upgrade | 152 | 144 | 108 | 20 | 16 | 3,913 | 3,853 | 2,137 | 518 | 1,198 |
| Other | 39 | 34 | 25 | Q | Q | 848 | 829 | 321 | Q | Q |
| No renovations | 3,160 | 2,306 | 1,794 | 354 | 158 | 39,154 | 33,564 | 22,127 | 5,365 | 6,073 |
| Buildings constructed 2008 or later | 303 | 231 | 161 | 39 | 30 | 5,723 | 5,162 | 3,176 | 933 | 1,053 |
| **Energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 5,234 | 4,423 | 3,348 | 690 | 385 | 84,869 | 79,015 | 47,534 | 12,688 | 18,793 |
| Natural gas | 2,933 | 2,742 | 2,073 | 388 | 282 | 58,725 | 57,019 | 34,005 | 8,211 | 14,803 |
| Fuel oil | 467 | 411 | 314 | 52 | 45 | 20,200 | 19,708 | 10,979 | 2,510 | 6,219 |
| District heat | 48 | 45 | 30 | 6 | 8 | 5,964 | 5,822 | 3,596 | 501 | 1,725 |
| District chilled water | 54 | 51 | 24 | 19 | 7 | 4,608 | 4,511 | 2,907 | 450 | 1,154 |
| Propane | 510 | 466 | 357 | 72 | 38 | 7,706 | 7,383 | 4,491 | 1,127 | 1,765 |
| Other | 172 | 141 | 104 | 23 | 14 | 3,826 | 3,679 | 2,260 | 475 | 944 |

## Table B42. Water-heating equipment, number of buildings and floorspace, 2012

| | Number of buildings (thousand) | | | | | Total floorspace (million square feet) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Type of water-heating equipment | | | | | Type of water-heating equipment | | |
| | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems | All buildings | Buildings with water heating | Central-ized system | Distrib-uted system | Both central-ized and distrib-uted systems |
| **All buildings** | 5,557 | 4,423 | 3,348 | 690 | 385 | 87,093 | 79,015 | 47,534 | 12,688 | 18,793 |
| **Water-heating energy sources (more than one may apply)** | | | | | | | | | | |
| Electricity | 2,658 | 2,658 | 1,901 | 508 | 250 | 42,755 | 42,755 | 21,435 | 9,362 | 11,957 |
| Natural gas | 1,758 | 1,758 | 1,367 | 182 | 209 | 39,523 | 39,523 | 24,806 | 4,088 | 10,629 |
| Fuel oil | 77 | 77 | 63 | Q | 7 | 1,911 | 1,911 | 1,318 | Q | 467 |
| District heat | 25 | 25 | 19 | 3 | 4 | 4,551 | 4,551 | 3,002 | 325 | 1,224 |
| Propane | 142 | 142 | 106 | Q | 14 | 1,575 | 1,575 | 1,006 | Q | 348 |
| **Energy end uses (more than one may apply)** | | | | | | | | | | |
| Buildings with space heating | 4,722 | 4,237 | 3,229 | 634 | 374 | 80,078 | 76,584 | 46,147 | 11,914 | 18,523 |
| Buildings with cooling | 4,461 | 4,097 | 3,093 | 631 | 374 | 79,294 | 76,414 | 45,554 | 12,198 | 18,662 |
| Buildings with water heating | 4,423 | 4,423 | 3,348 | 690 | 385 | 79,015 | 79,015 | 47,534 | 12,688 | 18,793 |
| Buildings with cooking | 1,589 | 1,573 | 1,190 | 176 | 208 | 38,546 | 38,389 | 21,608 | 4,102 | 12,679 |
| Buildings with manufacturing | 259 | 228 | 150 | 55 | 22 | 5,078 | 4,570 | 2,431 | 1,148 | 990 |
| Buildings with electricity generation | 410 | 395 | 292 | 34 | 69 | 25,642 | 25,280 | 14,045 | 2,858 | 8,378 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | | |
| Snack bar or concession stand | 153 | 150 | 95 | 17 | 38 | 9,884 | 9,864 | 4,357 | 899 | 4,608 |
| Fast food or small restaurant | 173 | 173 | 97 | 13 | 63 | 9,787 | 9,778 | 3,500 | 1,131 | 5,147 |
| Cafeteria or large restaurant | 130 | 130 | 81 | 12 | 38 | 15,222 | 15,219 | 8,204 | 1,429 | 5,587 |
| Commercial kitchen/ food preparation area | 282 | 282 | 181 | 41 | 60 | 16,150 | 16,150 | 8,757 | 1,491 | 5,901 |
| Small kitchen area | 736 | 723 | 577 | 82 | 64 | 14,054 | 13,926 | 8,428 | 1,284 | 4,213 |

[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)* .

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B43. Lighting equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 5,557 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 2,422 | 824 | 2,192 | 925 | 106 | 299 | 108 |
| 5,001 to 10,000 | 1,229 | 1,120 | 396 | 1,045 | 517 | 99 | 201 | 94 |
| 10,001 to 25,000 | 884 | 832 | 311 | 786 | 427 | 140 | 181 | 112 |
| 25,001 to 50,000 | 332 | 322 | 135 | 308 | 194 | 74 | 96 | 61 |
| 50,001 to 100,000 | 199 | 194 | 89 | 189 | 138 | 53 | 71 | 48 |
| 100,001 to 200,000 | 90 | 89 | 45 | 85 | 65 | 30 | 34 | 28 |
| 200,001 to 500,000 | 38 | 37 | 20 | 37 | 30 | 17 | 18 | 17 |
| Over 500,000 | 8 | 8 | 5 | 8 | 7 | 5 | 5 | 5 |
| **Principal building activity** | | | | | | | | |
| Education | 389 | 389 | 97 | 382 | 176 | 57 | 50 | 28 |
| Food sales | 177 | 177 | 49 | 169 | 69 | Q | 23 | 27 |
| Food service | 380 | 380 | 174 | 352 | 237 | 17 | 91 | 42 |
| Health care | 157 | 157 | 68 | 148 | 89 | 15 | 38 | 17 |
| Inpatient | 10 | 10 | 7 | 10 | 9 | 4 | 4 | 4 |
| Outpatient | 147 | 147 | 62 | 139 | 80 | 11 | 33 | 13 |
| Lodging | 158 | 158 | 68 | 125 | 132 | 18 | 37 | 23 |
| Mercantile | 602 | 599 | 273 | 570 | 301 | 98 | 175 | 117 |
| Retail (other than mall) | 438 | 435 | 150 | 407 | 157 | 36 | 79 | 33 |
| Enclosed and strip malls | 164 | 164 | 123 | 163 | 144 | 61 | 96 | 84 |
| Office | 1,012 | 1,012 | 361 | 949 | 484 | 57 | 161 | 81 |
| Public assembly | 352 | 341 | 144 | 299 | 165 | 41 | 67 | 46 |
| Public order and safety | 84 | 76 | 22 | 72 | 37 | 8 | 10 | Q |
| Religious worship | 412 | 412 | 253 | 363 | 222 | 39 | 90 | 33 |
| Service | 619 | 584 | 126 | 552 | 168 | 70 | 78 | Q |
| Warehouse and storage | 796 | 567 | 136 | 509 | 161 | 76 | 66 | 23 |
| Other | 125 | 112 | 40 | 104 | 44 | 15 | 13 | 2 |
| Vacant | 296 | 62 | 16 | 56 | 16 | Q | Q | Q |
| **Year constructed** | | | | | | | | |
| Before 1920 | 362 | 320 | 182 | 272 | 161 | 29 | 72 | 33 |
| 1920 to 1945 | 488 | 439 | 188 | 388 | 195 | 25 | 76 | 34 |
| 1946 to 1959 | 599 | 529 | 196 | 489 | 243 | 39 | 81 | 43 |
| 1960 to 1969 | 639 | 601 | 234 | 574 | 268 | 73 | 101 | 50 |
| 1970 to 1979 | 684 | 628 | 256 | 588 | 299 | 66 | 95 | 52 |
| 1980 to 1989 | 915 | 831 | 281 | 787 | 343 | 98 | 149 | 80 |
| 1990 to 1999 | 845 | 733 | 217 | 671 | 342 | 75 | 123 | 56 |
| 2000 to 2003 | 375 | 349 | 113 | 332 | 163 | 48 | 73 | 29 |
| 2004 to 2007 | 347 | 319 | 90 | 300 | 147 | 42 | 70 | 45 |
| 2008 to 2012 | 303 | 277 | 69 | 249 | 142 | 31 | 64 | 51 |

## Table B43. Lighting equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 5,557 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |
| **Census region and division** | | | | | | | | |
| Northeast | 805 | 739 | 293 | 684 | 354 | 76 | 148 | 83 |
| New England | 302 | 267 | 111 | 236 | 139 | 34 | 70 | 36 |
| Middle Atlantic | 504 | 472 | 182 | 448 | 214 | 41 | 79 | 47 |
| Midwest | 1,237 | 1,113 | 460 | 1,018 | 542 | 110 | 203 | 114 |
| East North Central | 735 | 674 | 276 | 620 | 349 | 73 | 138 | 80 |
| West North Central | 502 | 439 | 183 | 398 | 194 | 37 | 64 | 34 |
| South | 2,247 | 2,023 | 721 | 1,890 | 840 | 219 | 377 | 164 |
| South Atlantic | 1,091 | 995 | 353 | 948 | 422 | 122 | 196 | 96 |
| East South Central | 370 | 346 | 149 | 319 | 136 | 29 | 44 | 29 |
| West South Central | 786 | 681 | 219 | 624 | 282 | 67 | 137 | 38 |
| West | 1,267 | 1,150 | 353 | 1,057 | 566 | 121 | 177 | 113 |
| Mountain | 338 | 288 | 105 | 269 | 132 | 27 | 45 | 26 |
| Pacific | 929 | 863 | 247 | 788 | 433 | 95 | 132 | 87 |
| **Climate region[1]** | | | | | | | | |
| Very cold/Cold | 2,031 | 1,813 | 730 | 1,663 | 881 | 189 | 332 | 190 |
| Mixed-humid | 1,743 | 1,589 | 612 | 1,499 | 698 | 165 | 300 | 138 |
| Mixed-dry/Hot-dry | 837 | 777 | 190 | 722 | 338 | 83 | 119 | 70 |
| Hot-humid | 799 | 714 | 233 | 652 | 299 | 74 | 127 | 59 |
| Marine | 147 | 132 | 60 | 113 | 87 | Q | 28 | 15 |
| **Number of floors** | | | | | | | | |
| One | 3,836 | 3,388 | 1,071 | 3,120 | 1,372 | 326 | 506 | 261 |
| Two | 1,158 | 1,093 | 474 | 1,022 | 577 | 130 | 245 | 113 |
| Three | 374 | 359 | 171 | 329 | 210 | 37 | 85 | 48 |
| Four to nine | 177 | 173 | 104 | 166 | 132 | 28 | 62 | 45 |
| Ten or more | 13 | 12 | 7 | 12 | 12 | 5 | 7 | 7 |
| **Number of workers (main shift)** | | | | | | | | |
| Fewer than 5 | 2,892 | 2,366 | 813 | 2,102 | 885 | 152 | 327 | 119 |
| 5 to 9 | 1,085 | 1,081 | 364 | 1,018 | 501 | 108 | 180 | 76 |
| 10 to 19 | 731 | 731 | 281 | 703 | 385 | 82 | 148 | 89 |
| 20 to 49 | 513 | 511 | 206 | 498 | 292 | 86 | 130 | 87 |
| 50 to 99 | 206 | 206 | 98 | 199 | 140 | 53 | 70 | 55 |
| 100 to 249 | 93 | 93 | 43 | 92 | 66 | 31 | 32 | 30 |
| 250 or more | 37 | 37 | 21 | 37 | 33 | 14 | 18 | 16 |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 1,149 | 792 | 367 | 691 | 290 | 47 | 111 | 32 |
| 40 to 48 | 1,346 | 1,316 | 404 | 1,248 | 520 | 90 | 190 | 59 |
| 49 to 60 | 1,244 | 1,224 | 401 | 1,168 | 556 | 157 | 225 | 117 |
| 61 to 84 | 764 | 734 | 305 | 687 | 397 | 116 | 184 | 117 |
| 85 to 167 | 479 | 459 | 181 | 427 | 242 | 49 | 104 | 61 |
| Open continuously | 575 | 501 | 168 | 429 | 297 | 66 | 91 | 87 |

## Table B43. Lighting equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 5,557 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 4,781 | 4,294 | 1,637 | 3,955 | 1,997 | 421 | 826 | 395 |
| Owner occupied | 2,466 | 2,330 | 910 | 2,104 | 1,096 | 189 | 408 | 169 |
| Leased to tenant(s) | 1,745 | 1,600 | 575 | 1,501 | 721 | 178 | 325 | 179 |
| Owner occupied and leased | 349 | 342 | 147 | 329 | 177 | 54 | 93 | 47 |
| Unoccupied | 221 | 21 | Q | 20 | Q | Q | Q | Q |
| Government owned | 776 | 731 | 189 | 695 | 305 | 104 | 79 | 78 |
| Federal | 33 | 33 | 12 | 33 | 15 | 6 | 8 | Q |
| State | 185 | 175 | 46 | 166 | 82 | 29 | 25 | 19 |
| Local | 558 | 523 | 132 | 496 | 208 | 69 | 45 | 55 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | |
| Building owner | 4,715 | 4,223 | 1,510 | 3,895 | 1,946 | 417 | 722 | 362 |
| Business owner or tenant | 724 | 692 | 268 | 654 | 308 | 95 | 158 | 97 |
| Property management | 54 | 49 | 17 | 42 | 27 | 5 | 9 | 6 |
| Other | 64 | 62 | 31 | 58 | 22 | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | |
| Building owner | 4,876 | 4,370 | 1,567 | 4,038 | 2,001 | 436 | 757 | 385 |
| Business owner or tenant | 540 | 518 | 207 | 484 | 248 | 74 | 122 | 72 |
| Property management | 35 | 35 | 7 | 31 | 18 | 3 | 8 | Q |
| Other | 106 | 102 | 46 | 97 | 36 | 12 | 18 | 12 |
| **Campus or complex activity** | | | | | | | | |
| Not part of a campus or complex | 3,683 | 3,408 | 1,307 | 3,184 | 1,576 | 333 | 632 | 295 |
| Primary or secondary school | 237 | 229 | 39 | 224 | 79 | 27 | 17 | 15 |
| College or university | 84 | 82 | 23 | 80 | 63 | 12 | 15 | 13 |
| Office complex | 154 | 151 | 53 | 142 | 72 | 9 | 31 | 18 |
| Retail complex | 258 | 241 | 99 | 231 | 129 | 48 | 79 | 51 |
| Storage complex | 314 | 144 | 28 | 114 | 42 | Q | Q | Q |
| Religious campus or complex | 197 | 192 | 105 | 162 | 88 | 14 | 37 | 16 |
| Health care complex | 52 | 49 | 22 | 45 | 36 | 6 | 10 | 10 |
| Lodging or resort complex | 65 | 62 | 22 | 36 | 47 | Q | 7 | Q |
| Transportation complex | 35 | 34 | Q | 32 | 19 | Q | Q | Q |
| Government complex | 104 | 97 | 30 | 87 | 38 | 13 | 9 | 16 |
| Other | 371 | 336 | 90 | 313 | 113 | 45 | 51 | 27 |

## Table B43. Lighting equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 5,557 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | |
| Any type of renovation | 2,094 | 2,006 | 876 | 1,858 | 1,056 | 232 | 427 | 244 |
| Addition or annex | 444 | 434 | 191 | 414 | 239 | 68 | 110 | 63 |
| Reduction in floorspace | 71 | 63 | 30 | 55 | 34 | 12 | 9 | 8 |
| Roof replacement | 987 | 943 | 440 | 869 | 482 | 110 | 200 | 135 |
| Exterior wall replacement | 194 | 184 | 86 | 172 | 101 | 23 | 56 | 34 |
| Interior wall reconfiguration | 889 | 856 | 403 | 818 | 496 | 115 | 213 | 136 |
| Window replacement | 560 | 547 | 261 | 507 | 325 | 72 | 141 | 98 |
| HVAC equipment upgrade | 1,101 | 1,066 | 513 | 1,002 | 613 | 156 | 259 | 160 |
| Lighting upgrade | 982 | 952 | 437 | 881 | 565 | 128 | 229 | 167 |
| Electrical upgrade | 747 | 718 | 360 | 660 | 419 | 94 | 199 | 110 |
| Plumbing system upgrade | 644 | 619 | 304 | 567 | 373 | 72 | 162 | 103 |
| Insulation upgrade | 382 | 370 | 178 | 353 | 214 | 40 | 92 | 73 |
| Fire, safety, or security upgrade | 616 | 603 | 304 | 567 | 356 | 80 | 162 | 103 |
| Structural upgrade | 152 | 147 | 85 | 134 | 90 | 15 | 47 | 31 |
| Other | 39 | 39 | 15 | 39 | 18 | Q | 9 | 6 |
| No renovations | 3,160 | 2,742 | 881 | 2,542 | 1,104 | 262 | 413 | 178 |
| Buildings constructed 2008 or later | 303 | 277 | 69 | 249 | 142 | 31 | 64 | 51 |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 5,234 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |
| Natural gas | 2,933 | 2,890 | 1,137 | 2,713 | 1,490 | 345 | 596 | 336 |
| Fuel oil | 467 | 457 | 192 | 433 | 239 | 85 | 105 | 63 |
| District heat | 48 | 47 | 20 | 43 | 38 | 11 | 13 | 11 |
| District chilled water | 54 | 53 | 15 | 52 | 37 | 7 | 10 | 10 |
| Propane | 510 | 496 | 204 | 451 | 230 | 65 | 100 | 49 |
| Other | 172 | 167 | 62 | 156 | 91 | 21 | 34 | 21 |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 4,722 | 4,637 | 1,720 | 4,325 | 2,180 | 499 | 864 | 455 |
| Buildings with cooling | 4,461 | 4,418 | 1,648 | 4,141 | 2,133 | 481 | 857 | 456 |
| Buildings with water heating | 4,423 | 4,381 | 1,674 | 4,093 | 2,149 | 493 | 861 | 460 |
| Buildings with cooking | 1,589 | 1,574 | 778 | 1,473 | 995 | 207 | 415 | 255 |
| Buildings with manufacturing | 259 | 253 | 99 | 245 | 105 | 49 | 49 | 20 |
| Buildings with electricity generation | 410 | 405 | 149 | 386 | 260 | 78 | 112 | 88 |
| **Percent lit when open** | | | | | | | | |
| Zero | 70 | Q | Q | Q | Q | N | N | Q |
| 1 to 50 | 1,099 | 1,099 | 391 | 985 | 478 | 78 | 165 | 76 |
| 51 to 99 | 1,666 | 1,666 | 724 | 1,570 | 920 | 227 | 413 | 222 |
| 100 | 2,222 | 2,222 | 699 | 2,065 | 895 | 220 | 326 | 174 |
| Building never open/electricity not used | 501 | 32 | Q | 26 | Q | Q | Q | Q |

## Table B43. Lighting equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 5,557 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |
| **Percent lit during off hours** | | | | | | | | |
| Zero | 2,489 | 2,296 | 759 | 2,084 | 827 | 170 | 298 | 104 |
| 1 to 50 | 2,441 | 2,441 | 984 | 2,305 | 1,319 | 314 | 554 | 316 |
| 51 to 100 | 202 | 202 | 64 | 184 | 109 | 27 | 41 | 34 |
| Building always open with no "off hours" | 102 | 87 | 20 | 77 | 47 | 14 | 12 | 19 |
| Electricity not used | 323 | N | N | N | N | N | N | N |
| **Lighting equipment types (more than one may apply)** | | | | | | | | |
| Incandescent | 1,826 | 1,826 | 1,826 | 1,656 | 1,041 | 267 | 512 | 253 |
| Standard fluorescent | 4,649 | 4,649 | 1,656 | 4,649 | 2,084 | 488 | 840 | 435 |
| Compact fluorescent | 2,302 | 2,302 | 1,041 | 2,084 | 2,302 | 319 | 607 | 350 |
| High-intensity discharge | 525 | 525 | 267 | 488 | 319 | 525 | 207 | 130 |
| Halogen | 905 | 905 | 512 | 840 | 607 | 207 | 905 | 215 |
| LED | 473 | 473 | 253 | 435 | 350 | 130 | 215 | 473 |
| Other | 10 | 10 | 9 | 10 | 10 | Q | 6 | 6 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | |
| Multipaned windows | 3,012 | 2,902 | 1,152 | 2,726 | 1,496 | 361 | 611 | 377 |
| Tinted window glass | 1,875 | 1,825 | 697 | 1,723 | 991 | 275 | 402 | 250 |
| Reflective window glass | 549 | 541 | 224 | 504 | 330 | 88 | 156 | 106 |
| External overhangs or awnings | 1,867 | 1,819 | 761 | 1,728 | 1,011 | 215 | 396 | 257 |
| Skylights or atriums | 591 | 574 | 245 | 531 | 353 | 105 | 197 | 104 |
| Light scheduling | 918 | 918 | 390 | 851 | 598 | 200 | 300 | 183 |
| Occupancy sensors | 813 | 813 | 300 | 767 | 528 | 156 | 237 | 226 |
| Multi-level lighting or dimming | 349 | 349 | 219 | 320 | 258 | 86 | 160 | 117 |
| Daylight harvesting | 125 | 125 | 56 | 115 | 79 | 34 | 42 | 39 |
| Demand responsive lighting | 176 | 176 | 78 | 168 | 91 | 37 | 44 | 37 |
| Building automation system (BAS) for lighting[2] | 208 | 208 | 86 | 195 | 138 | 54 | 71 | 71 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | |
| Heating | 3,699 | 3,647 | 1,397 | 3,402 | 1,772 | 405 | 707 | 373 |
| Cooling | 3,517 | 3,480 | 1,348 | 3,250 | 1,736 | 391 | 705 | 371 |
| Lighting | 4,757 | 4,757 | 1,758 | 4,414 | 2,180 | 499 | 882 | 438 |

## Table B43. Lighting equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 5,557 | 5,025 | 1,826 | 4,649 | 2,302 | 525 | 905 | 473 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B44. Lighting equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 87,093 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |
| **Building floorspace (square feet)** | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 7,130 | 2,453 | 6,466 | 2,815 | 373 | 944 | 348 |
| 5,001 to 10,000 | 8,900 | 8,152 | 2,917 | 7,589 | 3,740 | 736 | 1,487 | 714 |
| 10,001 to 25,000 | 14,105 | 13,250 | 4,987 | 12,533 | 6,767 | 2,175 | 2,903 | 1,882 |
| 25,001 to 50,000 | 11,917 | 11,542 | 4,788 | 11,063 | 6,970 | 2,712 | 3,556 | 2,252 |
| 50,001 to 100,000 | 13,918 | 13,564 | 6,218 | 13,217 | 9,652 | 3,766 | 4,989 | 3,479 |
| 100,001 to 200,000 | 12,415 | 12,282 | 6,239 | 11,745 | 9,078 | 4,244 | 4,605 | 3,919 |
| 200,001 to 500,000 | 10,724 | 10,634 | 6,002 | 10,552 | 8,775 | 4,981 | 5,161 | 4,866 |
| Over 500,000 | 7,074 | 7,014 | 4,803 | 6,915 | 6,021 | 4,409 | 4,413 | 4,612 |
| **Principal building activity** | | | | | | | | |
| Education | 12,239 | 12,239 | 5,004 | 12,180 | 8,559 | 4,376 | 3,069 | 2,135 |
| Food sales | 1,252 | 1,252 | 443 | 1,232 | 560 | Q | 271 | 323 |
| Food service | 1,819 | 1,819 | 924 | 1,671 | 1,177 | 121 | 496 | 275 |
| Health care | 4,155 | 4,155 | 2,391 | 4,074 | 3,535 | 1,448 | 1,875 | 2,245 |
| Inpatient | 2,374 | 2,374 | 1,745 | 2,373 | 2,260 | 1,217 | 1,452 | 1,647 |
| Outpatient | 1,781 | 1,781 | 646 | 1,701 | 1,275 | 231 | 423 | 598 |
| Lodging | 5,826 | 5,817 | 3,585 | 5,409 | 5,258 | 1,848 | 2,696 | 2,024 |
| Mercantile | 11,330 | 11,320 | 6,646 | 10,714 | 8,053 | 3,959 | 5,925 | 5,118 |
| Retail (other than mall) | 5,439 | 5,430 | 1,671 | 4,864 | 2,712 | 891 | 1,608 | 1,295 |
| Enclosed and strip malls | 5,890 | 5,890 | 4,975 | 5,850 | 5,341 | 3,069 | 4,317 | 3,824 |
| Office | 15,952 | 15,952 | 7,541 | 15,547 | 11,438 | 3,858 | 5,598 | 5,034 |
| Public assembly | 5,559 | 5,527 | 3,035 | 5,208 | 4,125 | 1,922 | 2,172 | 1,955 |
| Public order and safety | 1,440 | 1,414 | 623 | 1,375 | 1,086 | 404 | 416 | 360 |
| Religious worship | 4,557 | 4,557 | 3,015 | 4,293 | 3,187 | 839 | 1,540 | 902 |
| Service | 4,630 | 4,379 | 1,026 | 4,142 | 1,569 | 980 | 1,024 | Q |
| Warehouse and storage | 13,077 | 12,079 | 3,094 | 11,280 | 4,040 | 2,934 | 2,438 | 998 |
| Other | 2,002 | 1,930 | 790 | 1,880 | 783 | 383 | 344 | 290 |
| Vacant | 3,256 | 1,128 | 288 | 1,076 | 445 | Q | Q | Q |
| **Year constructed** | | | | | | | | |
| Before 1920 | 3,983 | 3,715 | 2,292 | 3,280 | 2,346 | 763 | 1,208 | 744 |
| 1920 to 1945 | 6,025 | 5,774 | 2,750 | 5,472 | 3,714 | 1,337 | 1,948 | 1,528 |
| 1946 to 1959 | 7,381 | 7,087 | 3,494 | 6,860 | 4,340 | 1,785 | 2,028 | 1,306 |
| 1960 to 1969 | 10,362 | 10,061 | 4,629 | 9,857 | 6,463 | 2,525 | 2,948 | 2,224 |
| 1970 to 1979 | 10,846 | 10,354 | 5,560 | 9,992 | 6,913 | 3,311 | 3,418 | 2,632 |
| 1980 to 1989 | 15,230 | 14,688 | 6,972 | 14,263 | 9,199 | 4,591 | 5,124 | 4,374 |
| 1990 to 1999 | 13,803 | 12,856 | 5,494 | 12,267 | 8,327 | 4,127 | 4,364 | 3,489 |
| 2000 to 2003 | 7,215 | 7,100 | 2,874 | 6,810 | 4,692 | 2,072 | 2,580 | 1,915 |
| 2004 to 2007 | 6,524 | 6,378 | 2,745 | 6,209 | 4,249 | 1,770 | 2,514 | 2,113 |
| 2008 to 2012 | 5,723 | 5,556 | 1,595 | 5,070 | 3,574 | 1,116 | 1,929 | 1,747 |

## Table B44. Lighting equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 87,093 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |
| **Census region and division** | | | | | | | | |
| Northeast | 15,534 | 15,071 | 7,565 | 14,473 | 10,771 | 4,510 | 5,267 | 4,752 |
| New England | 4,302 | 4,062 | 2,046 | 3,771 | 2,886 | 1,161 | 1,494 | 1,363 |
| Middle Atlantic | 11,232 | 11,009 | 5,520 | 10,702 | 7,886 | 3,349 | 3,774 | 3,388 |
| Midwest | 18,919 | 18,190 | 9,038 | 17,514 | 11,841 | 5,357 | 6,169 | 5,148 |
| East North Central | 12,742 | 12,323 | 6,180 | 11,880 | 8,336 | 4,102 | 4,590 | 3,759 |
| West North Central | 6,178 | 5,867 | 2,858 | 5,634 | 3,505 | 1,255 | 1,578 | 1,389 |
| South | 34,279 | 32,621 | 14,581 | 31,363 | 20,042 | 9,347 | 10,970 | 7,559 |
| South Atlantic | 17,981 | 17,449 | 7,828 | 16,888 | 10,855 | 5,325 | 6,161 | 4,553 |
| East South Central | 4,904 | 4,726 | 2,468 | 4,573 | 2,923 | 1,182 | 1,349 | 1,232 |
| West South Central | 11,394 | 10,446 | 4,286 | 9,901 | 6,263 | 2,841 | 3,459 | 1,774 |
| West | 18,360 | 17,687 | 7,222 | 16,732 | 11,163 | 4,182 | 5,653 | 4,612 |
| Mountain | 4,981 | 4,677 | 2,253 | 4,529 | 3,007 | 1,314 | 1,663 | 1,513 |
| Pacific | 13,379 | 13,010 | 4,969 | 12,203 | 8,156 | 2,868 | 3,990 | 3,099 |
| **Climate region[1]** | | | | | | | | |
| Very cold/Cold | 31,898 | 30,542 | 14,837 | 29,315 | 20,485 | 8,734 | 10,366 | 9,156 |
| Mixed-humid | 27,873 | 27,096 | 13,429 | 26,407 | 17,410 | 8,547 | 9,391 | 6,936 |
| Mixed-dry/Hot-dry | 12,037 | 11,670 | 4,139 | 11,018 | 6,692 | 2,661 | 3,257 | 2,514 |
| Hot-humid | 12,831 | 11,881 | 4,769 | 11,096 | 7,285 | 3,035 | 4,152 | 2,733 |
| Marine | 2,454 | 2,381 | 1,232 | 2,246 | 1,944 | 420 | 893 | 732 |
| **Number of floors** | | | | | | | | |
| One | 39,809 | 37,113 | 13,966 | 34,818 | 18,664 | 8,474 | 9,952 | 6,930 |
| Two | 20,206 | 19,726 | 9,208 | 19,068 | 12,629 | 5,326 | 5,781 | 3,905 |
| Three | 8,140 | 8,055 | 3,886 | 7,767 | 5,761 | 2,239 | 2,789 | 1,950 |
| Four to nine | 13,535 | 13,307 | 7,842 | 13,083 | 11,610 | 4,469 | 6,053 | 5,642 |
| Ten or more | 5,404 | 5,368 | 3,504 | 5,344 | 5,152 | 2,888 | 3,484 | 3,645 |
| **Number of workers (main shift)** | | | | | | | | |
| Fewer than 5 | 17,751 | 14,286 | 4,834 | 12,622 | 6,162 | 1,664 | 2,418 | 993 |
| 5 to 9 | 8,973 | 8,925 | 3,346 | 8,446 | 4,404 | 1,445 | 1,953 | 902 |
| 10 to 19 | 9,623 | 9,614 | 3,753 | 9,292 | 5,181 | 1,673 | 2,355 | 1,360 |
| 20 to 49 | 14,514 | 14,512 | 6,370 | 14,195 | 9,078 | 3,603 | 4,800 | 3,548 |
| 50 to 99 | 13,476 | 13,476 | 6,902 | 13,040 | 9,597 | 4,563 | 5,243 | 4,223 |
| 100 to 249 | 10,941 | 10,941 | 5,568 | 10,782 | 8,461 | 4,441 | 4,227 | 4,231 |
| 250 or more | 11,815 | 11,815 | 7,633 | 11,704 | 10,933 | 6,007 | 7,062 | 6,814 |
| **Weekly operating hours** | | | | | | | | |
| Fewer than 40 | 8,220 | 5,514 | 2,684 | 5,037 | 2,645 | 754 | 1,073 | 445 |
| 40 to 48 | 15,828 | 15,693 | 6,209 | 15,156 | 7,767 | 3,063 | 3,615 | 1,876 |
| 49 to 60 | 20,529 | 20,401 | 7,753 | 19,671 | 12,581 | 5,227 | 5,702 | 4,094 |
| 61 to 84 | 15,867 | 15,773 | 8,805 | 15,372 | 11,430 | 5,341 | 6,696 | 6,080 |
| 85 to 167 | 9,395 | 9,336 | 4,289 | 8,702 | 6,225 | 2,726 | 3,544 | 2,832 |
| Open continuously | 17,253 | 16,852 | 8,667 | 16,144 | 13,169 | 6,286 | 7,428 | 6,745 |

## Table B44. Lighting equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 87,093 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |
| **Ownership and occupancy** | | | | | | | | |
| Nongovernment owned | 67,550 | 64,509 | 29,885 | 61,330 | 40,348 | 16,399 | 22,488 | 17,210 |
| Owner occupied | 30,637 | 29,949 | 13,181 | 28,109 | 18,432 | 6,238 | 8,652 | 6,135 |
| Leased to tenant(s) | 26,115 | 25,543 | 11,650 | 24,494 | 15,538 | 6,932 | 9,504 | 7,422 |
| Owner occupied and leased | 8,873 | 8,778 | 5,011 | 8,508 | 6,323 | 3,190 | 4,293 | 3,647 |
| Unoccupied | 1,925 | 239 | Q | 219 | Q | Q | Q | Q |
| Government owned | 19,543 | 19,060 | 8,522 | 18,751 | 13,469 | 6,998 | 5,571 | 4,862 |
| Federal | 1,573 | 1,573 | 761 | 1,572 | 1,288 | 804 | 949 | 798 |
| State | 5,539 | 5,412 | 2,581 | 5,320 | 4,009 | 1,955 | 1,716 | 1,480 |
| Local | 12,431 | 12,074 | 5,180 | 11,859 | 8,171 | 4,238 | 2,906 | 2,584 |
| **Party responsible for operation and maintenance of energy systems** | | | | | | | | |
| Building owner | 73,702 | 70,469 | 31,846 | 67,399 | 46,163 | 19,310 | 22,602 | 17,924 |
| Business owner or tenant | 11,309 | 11,045 | 5,466 | 10,748 | 6,369 | 3,351 | 4,596 | 3,455 |
| Property management | 1,250 | 1,230 | 681 | 1,127 | 841 | 462 | 628 | 502 |
| Other | 832 | 825 | 413 | 807 | 444 | Q | Q | Q |
| **Provider of direct input on energy-related equipment purchases** | | | | | | | | |
| Building owner | 76,271 | 72,961 | 33,177 | 69,883 | 47,361 | 19,929 | 23,577 | 18,671 |
| Business owner or tenant | 8,256 | 8,059 | 3,996 | 7,819 | 4,871 | 2,621 | 3,448 | 2,431 |
| Property management | 880 | 880 | 411 | 733 | 573 | 330 | 453 | 360 |
| Other | 1,686 | 1,668 | 822 | 1,647 | 1,012 | 517 | 581 | 609 |
| **Campus or complex activity** | | | | | | | | |
| Not part of a campus or complex | 52,275 | 50,347 | 23,510 | 48,384 | 31,219 | 12,969 | 16,382 | 11,924 |
| Primary or secondary school | 4,616 | 4,580 | 1,947 | 4,534 | 2,857 | 1,742 | 1,103 | 792 |
| College or university | 4,068 | 3,990 | 1,216 | 3,928 | 3,521 | 876 | 1,147 | 1,197 |
| Office complex | 3,456 | 3,383 | 1,586 | 3,281 | 2,536 | 910 | 1,329 | 1,204 |
| Retail complex | 5,159 | 5,011 | 3,088 | 4,795 | 3,723 | 1,995 | 2,705 | 2,325 |
| Storage complex | 3,212 | 2,360 | 397 | 1,951 | 695 | 566 | Q | Q |
| Religious campus or complex | 1,932 | 1,911 | 1,294 | 1,704 | 1,189 | 379 | 666 | 438 |
| Health care complex | 3,362 | 3,302 | 2,212 | 3,289 | 2,973 | 1,372 | 1,671 | 1,810 |
| Lodging or resort complex | 1,295 | 1,284 | 675 | 1,088 | 1,113 | 520 | 573 | Q |
| Transportation complex | 554 | 526 | 231 | 499 | 356 | 223 | 209 | 211 |
| Government complex | 2,107 | 2,087 | 798 | 2,005 | 1,436 | 660 | 683 | 608 |
| Other | 5,057 | 4,787 | 1,453 | 4,622 | 2,199 | 1,184 | 1,371 | 953 |

## Table B44. Lighting equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 87,093 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |
| **Renovations in buildings constructed before 2008 (more than one may apply)** | | | | | | | | |
| Any type of renovation | 42,216 | 41,479 | 21,682 | 40,110 | 29,853 | 13,577 | 16,029 | 13,577 |
| Addition or annex | 13,022 | 12,924 | 7,595 | 12,770 | 9,867 | 5,170 | 5,328 | 4,711 |
| Reduction in floorspace | 1,753 | 1,718 | 1,071 | 1,652 | 1,287 | 738 | 581 | 603 |
| Roof replacement | 20,917 | 20,674 | 11,459 | 20,154 | 15,616 | 7,578 | 8,126 | 7,492 |
| Exterior wall replacement | 4,230 | 4,197 | 2,231 | 4,118 | 3,247 | 1,569 | 1,951 | 1,725 |
| Interior wall reconfiguration | 21,340 | 21,006 | 11,613 | 20,643 | 16,528 | 7,193 | 9,477 | 8,549 |
| Window replacement | 12,265 | 12,193 | 6,862 | 11,805 | 9,675 | 4,328 | 5,358 | 4,526 |
| HVAC equipment upgrade | 26,779 | 26,504 | 14,715 | 25,911 | 20,410 | 9,918 | 11,421 | 9,614 |
| Lighting upgrade | 25,503 | 25,268 | 13,502 | 24,681 | 19,342 | 8,933 | 10,688 | 9,803 |
| Electrical upgrade | 16,160 | 15,948 | 9,523 | 15,553 | 12,613 | 5,533 | 7,293 | 6,345 |
| Plumbing system upgrade | 13,828 | 13,701 | 8,026 | 13,354 | 11,096 | 4,748 | 6,417 | 5,653 |
| Insulation upgrade | 7,607 | 7,471 | 4,343 | 7,377 | 5,782 | 2,503 | 3,255 | 3,303 |
| Fire, safety, or security upgrade | 17,196 | 17,108 | 9,766 | 16,727 | 13,892 | 6,325 | 7,996 | 7,226 |
| Structural upgrade | 3,913 | 3,876 | 2,199 | 3,791 | 3,152 | 1,316 | 1,902 | 1,672 |
| Other | 848 | 848 | 499 | 848 | 656 | Q | 492 | 391 |
| No renovations | 39,154 | 36,534 | 15,129 | 34,901 | 20,389 | 8,704 | 10,101 | 6,748 |
| Buildings constructed 2008 or later | 5,723 | 5,556 | 1,595 | 5,070 | 3,574 | 1,116 | 1,929 | 1,747 |
| **Energy sources (more than one may apply)** | | | | | | | | |
| Electricity | 84,869 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |
| Natural gas | 58,725 | 58,278 | 29,672 | 56,575 | 40,392 | 18,328 | 21,261 | 17,539 |
| Fuel oil | 20,200 | 20,120 | 11,355 | 19,742 | 16,251 | 8,782 | 9,690 | 8,933 |
| District heat | 5,964 | 5,873 | 3,161 | 5,781 | 5,314 | 2,555 | 2,769 | 2,871 |
| District chilled water | 4,608 | 4,545 | 2,284 | 4,516 | 4,071 | 1,729 | 1,805 | 1,941 |
| Propane | 7,706 | 7,652 | 3,803 | 7,281 | 4,622 | 2,584 | 2,865 | 2,098 |
| Other | 3,826 | 3,784 | 1,735 | 3,685 | 2,664 | 957 | 1,466 | 1,247 |
| **Energy end uses (more than one may apply)** | | | | | | | | |
| Buildings with space heating | 80,078 | 79,384 | 37,292 | 76,646 | 52,287 | 22,631 | 27,225 | 21,503 |
| Buildings with cooling | 79,294 | 78,876 | 37,119 | 76,125 | 52,285 | 22,734 | 27,618 | 21,869 |
| Buildings with water heating | 79,015 | 78,622 | 37,160 | 75,803 | 52,606 | 22,834 | 27,589 | 21,894 |
| Buildings with cooking | 38,546 | 38,494 | 23,469 | 37,728 | 30,809 | 14,810 | 17,558 | 15,043 |
| Buildings with manufacturing | 5,078 | 5,044 | 2,387 | 4,928 | 2,363 | 1,421 | 1,506 | 751 |
| Buildings with electricity generation | 25,642 | 25,605 | 13,305 | 25,096 | 21,247 | 10,397 | 12,027 | 11,434 |
| **Percent lit when open** | | | | | | | | |
| Zero | 322 | Q | Q | Q | Q | N | N | Q |
| 1 to 50 | 12,628 | 12,628 | 4,867 | 11,798 | 6,202 | 2,418 | 2,884 | 1,937 |
| 51 to 99 | 34,814 | 34,814 | 19,106 | 33,816 | 25,376 | 11,003 | 15,045 | 11,847 |
| 100 | 35,726 | 35,726 | 14,283 | 34,132 | 22,087 | 9,929 | 10,084 | 8,278 |
| Building never open/electricity not used | 3,603 | 371 | Q | 326 | Q | Q | Q | Q |

## Table B44. Lighting equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 87,093 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |
| **Percent lit during off hours** | | | | | | | | |
| Zero | 24,746 | 23,500 | 8,122 | 21,910 | 11,540 | 4,722 | 4,692 | 3,038 |
| 1 to 50 | 50,753 | 50,753 | 25,337 | 49,312 | 35,189 | 15,141 | 19,374 | 15,404 |
| 51 to 100 | 6,926 | 6,926 | 3,936 | 6,568 | 5,611 | 2,627 | 3,022 | 2,712 |
| Building always open with no "off hours" | 2,443 | 2,390 | 1,012 | 2,291 | 1,477 | 906 | 970 | 917 |
| Electricity not used | 2,225 | N | N | N | N | N | N | N |
| **Lighting equipment types (more than one may apply)** | | | | | | | | |
| Incandescent | 38,406 | 38,406 | 38,406 | 37,447 | 30,603 | 15,324 | 19,550 | 15,118 |
| Standard fluorescent | 80,081 | 80,081 | 37,447 | 80,081 | 51,568 | 22,703 | 27,403 | 21,386 |
| Compact fluorescent | 53,816 | 53,816 | 30,603 | 51,568 | 53,816 | 18,808 | 23,433 | 19,584 |
| High-intensity discharge | 23,396 | 23,396 | 15,324 | 22,703 | 18,808 | 23,396 | 13,211 | 10,729 |
| Halogen | 28,059 | 28,059 | 19,550 | 27,403 | 23,433 | 13,211 | 28,059 | 13,934 |
| LED | 22,071 | 22,071 | 15,118 | 21,386 | 19,584 | 10,729 | 13,934 | 22,071 |
| Other | 446 | 446 | 390 | 446 | 446 | Q | 361 | 357 |
| **Window and interior lighting features (more than one may apply)** | | | | | | | | |
| Multipaned windows | 60,362 | 59,205 | 29,012 | 57,237 | 41,014 | 18,216 | 21,614 | 17,864 |
| Tinted window glass | 45,025 | 44,068 | 21,931 | 42,856 | 31,503 | 15,006 | 17,327 | 14,758 |
| Reflective window glass | 15,908 | 15,759 | 8,748 | 15,232 | 12,668 | 6,287 | 7,896 | 6,873 |
| External overhangs or awnings | 32,188 | 31,869 | 17,405 | 30,762 | 23,268 | 10,433 | 13,417 | 10,694 |
| Skylights or atriums | 22,261 | 21,902 | 11,479 | 21,291 | 16,651 | 8,534 | 10,239 | 8,409 |
| Light scheduling | 30,263 | 30,263 | 16,639 | 29,056 | 24,267 | 12,845 | 15,175 | 12,888 |
| Occupancy sensors | 35,871 | 35,871 | 18,510 | 34,858 | 28,252 | 13,754 | 16,401 | 15,662 |
| Multi-level lighting or dimming | 14,534 | 14,534 | 9,302 | 13,971 | 12,688 | 6,520 | 8,888 | 7,984 |
| Daylight harvesting | 6,114 | 6,114 | 3,387 | 6,032 | 4,887 | 2,868 | 3,341 | 3,980 |
| Demand responsive lighting | 4,738 | 4,738 | 2,946 | 4,506 | 3,502 | 2,061 | 2,437 | 2,251 |
| Building automation system (BAS) for lighting[2] | 12,068 | 12,068 | 6,984 | 11,721 | 10,143 | 5,684 | 6,577 | 6,766 |
| **Equipment usage reduced when building not in full use (more than one may apply)** | | | | | | | | |
| Heating | 63,167 | 62,669 | 30,314 | 60,546 | 42,331 | 18,572 | 21,904 | 17,671 |
| Cooling | 62,516 | 62,156 | 30,210 | 59,941 | 42,180 | 18,424 | 22,268 | 17,939 |
| Lighting | 78,594 | 78,594 | 36,405 | 75,380 | 51,068 | 21,872 | 26,646 | 20,668 |

## Table B44. Lighting equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Lighting equipment (more than one may apply) | | | | | |
| | All buildings | Lit buildings | Incand-escent | Standard fluor-escent | Compact fluor-escent | High-intensity dis-charge | Halogen | LED |
| **All buildings** | 87,093 | 83,569 | 38,406 | 80,081 | 53,816 | 23,396 | 28,059 | 22,071 |

[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)* .

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B45. Refrigeration equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 5,557 | 3,984 | 811 | 295 | 826 | 78 | 846 | 3,388 | 960 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 2,777 | 1,815 | 344 | 103 | 344 | Q | 279 | 1,520 | 182 |
| 5,001 to 10,000 | 1,229 | 903 | 150 | 57 | 163 | Q | 172 | 791 | 167 |
| 10,001 to 25,000 | 884 | 688 | 116 | 48 | 130 | Q | 147 | 585 | 236 |
| 25,001 to 50,000 | 332 | 276 | 60 | 23 | 68 | Q | 82 | 239 | 153 |
| 50,001 to 100,000 | 199 | 177 | 73 | 29 | 60 | 9 | 90 | 150 | 117 |
| 100,001 to 200,000 | 90 | 82 | 40 | 20 | 35 | 6 | 44 | 68 | 66 |
| 200,001 to 500,000 | 38 | 35 | 22 | 13 | 20 | 4 | 25 | 29 | 31 |
| Over 500,000 | 8 | 8 | 5 | 3 | 4 | 1 | 6 | 7 | 7 |
| **Principal building activity** | | | | | | | | | |
| Education | 389 | 277 | 80 | 21 | 71 | Q | 68 | 229 | 97 |
| Food sales | 177 | 175 | 145 | 74 | 126 | 19 | 85 | 58 | 44 |
| Food service | 380 | 380 | 293 | 72 | 233 | Q | 259 | 201 | 42 |
| Health care | 157 | 142 | 9 | 6 | 15 | 1 | 18 | 139 | 36 |
| Inpatient | 10 | 10 | 8 | 3 | 5 | 1 | 9 | 9 | 9 |
| Outpatient | 147 | 132 | Q | Q | 9 | Q | 9 | 131 | 27 |
| Lodging | 158 | 144 | 37 | 4 | 32 | Q | 61 | 126 | 68 |
| Mercantile | 602 | 500 | 149 | 83 | 181 | 19 | 113 | 417 | 173 |
| Retail (other than mall) | 438 | 338 | 47 | 18 | 76 | Q | 21 | 265 | 76 |
| Enclosed and strip malls | 164 | 162 | 102 | 66 | 105 | 11 | 91 | 152 | 97 |
| Office | 1,012 | 816 | 23 | 10 | 39 | Q | 72 | 788 | 179 |
| Public assembly | 352 | 268 | 28 | 15 | 48 | Q | 51 | 243 | 48 |
| Public order and safety | 84 | 78 | Q | Q | Q | Q | 21 | 71 | 24 |
| Religious worship | 412 | 351 | Q | Q | 36 | Q | 39 | 330 | 12 |
| Service | 619 | 415 | Q | N | Q | N | Q | 384 | 118 |
| Warehouse and storage | 796 | 314 | 19 | Q | 11 | 12 | 29 | 286 | 90 |
| Other | 125 | 82 | 7 | Q | 8 | Q | 6 | 77 | 21 |
| Vacant | 296 | 44 | Q | Q | Q | N | Q | 37 | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 362 | 257 | 44 | 18 | 54 | Q | 32 | 233 | 23 |
| 1920 to 1945 | 488 | 344 | 53 | 18 | 74 | Q | 45 | 296 | 47 |
| 1946 to 1959 | 599 | 433 | 71 | 24 | 72 | Q | 75 | 377 | 89 |
| 1960 to 1969 | 639 | 476 | 101 | 36 | 98 | 9 | 100 | 410 | 138 |
| 1970 to 1979 | 684 | 498 | 115 | 36 | 96 | 7 | 101 | 427 | 135 |
| 1980 to 1989 | 915 | 626 | 132 | 40 | 123 | 17 | 147 | 528 | 169 |
| 1990 to 1999 | 845 | 595 | 132 | 42 | 139 | 14 | 160 | 481 | 149 |
| 2000 to 2003 | 375 | 280 | 63 | 28 | 60 | 3 | 59 | 234 | 82 |
| 2004 to 2007 | 347 | 255 | 52 | 27 | 50 | 9 | 53 | 217 | 66 |
| 2008 to 2012 | 303 | 220 | 48 | 26 | 61 | Q | 74 | 185 | 62 |

## Table B45. Refrigeration equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 5,557 | 3,984 | 811 | 295 | 826 | 78 | 846 | 3,388 | 960 |
| **Census region and division** | | | | | | | | | |
| Northeast | 805 | 593 | 139 | 51 | 155 | 12 | 101 | 511 | 135 |
| New England | 302 | 212 | 59 | 16 | 64 | Q | 36 | 186 | 47 |
| Middle Atlantic | 504 | 381 | 81 | 35 | 91 | 11 | 64 | 325 | 88 |
| Midwest | 1,237 | 898 | 175 | 53 | 190 | 14 | 167 | 795 | 194 |
| East North Central | 735 | 566 | 113 | 38 | 121 | 9 | 111 | 495 | 117 |
| West North Central | 502 | 332 | 62 | 16 | 68 | Q | 55 | 300 | 77 |
| South | 2,247 | 1,630 | 332 | 125 | 313 | 33 | 412 | 1,342 | 436 |
| South Atlantic | 1,091 | 789 | 180 | 71 | 167 | 19 | 216 | 640 | 220 |
| East South Central | 370 | 311 | 51 | 23 | 59 | Q | 77 | 261 | 89 |
| West South Central | 786 | 530 | 100 | 32 | 87 | 7 | 119 | 441 | 126 |
| West | 1,267 | 864 | 166 | 65 | 169 | 19 | 166 | 740 | 195 |
| Mountain | 338 | 222 | 43 | 17 | 44 | Q | 49 | 185 | 51 |
| Pacific | 929 | 641 | 122 | 48 | 125 | 14 | 118 | 554 | 145 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 2,031 | 1,427 | 295 | 89 | 326 | 26 | 266 | 1,250 | 321 |
| Mixed-humid | 1,743 | 1,313 | 272 | 114 | 274 | 27 | 311 | 1,091 | 327 |
| Mixed-dry/Hot-dry | 837 | 575 | 90 | 41 | 94 | 10 | 100 | 498 | 130 |
| Hot-humid | 799 | 566 | 126 | 41 | 107 | 12 | 142 | 455 | 157 |
| Marine | 147 | 104 | 28 | 10 | Q | Q | 25 | 94 | 25 |
| **Number of floors** | | | | | | | | | |
| One | 3,836 | 2,602 | 553 | 212 | 540 | 50 | 541 | 2,176 | 563 |
| Two | 1,158 | 915 | 151 | 49 | 165 | 20 | 183 | 800 | 235 |
| Three | 374 | 301 | 59 | 16 | 74 | Q | 60 | 267 | 78 |
| Four to nine | 177 | 154 | 43 | 15 | 40 | 4 | 54 | 135 | 75 |
| Ten or more | 13 | 12 | 6 | 3 | 6 | (*) | 7 | 10 | 10 |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 2,892 | 1,697 | 229 | 73 | 282 | Q | 232 | 1,449 | 195 |
| 5 to 9 | 1,085 | 899 | 169 | 66 | 185 | Q | 167 | 764 | 169 |
| 10 to 19 | 731 | 632 | 150 | 43 | 134 | Q | 160 | 532 | 159 |
| 20 to 49 | 513 | 445 | 139 | 57 | 118 | 14 | 141 | 379 | 205 |
| 50 to 99 | 206 | 190 | 75 | 30 | 55 | 8 | 80 | 162 | 132 |
| 100 to 249 | 93 | 86 | 34 | 17 | 36 | 7 | 43 | 72 | 69 |
| 250 or more | 37 | 35 | 16 | 9 | 16 | 2 | 23 | 30 | 31 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 1,149 | 604 | 32 | Q | 60 | Q | 60 | 576 | 27 |
| 40 to 48 | 1,346 | 986 | 65 | 24 | 72 | Q | 87 | 916 | 178 |
| 49 to 60 | 1,244 | 965 | 96 | 24 | 129 | 8 | 137 | 877 | 250 |
| 61 to 84 | 764 | 624 | 238 | 88 | 237 | 30 | 205 | 486 | 226 |
| 85 to 167 | 479 | 409 | 243 | 89 | 221 | 19 | 190 | 226 | 127 |
| Open continuously | 575 | 395 | 136 | 59 | 107 | 12 | 167 | 307 | 151 |

## Table B45. Refrigeration equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 5,557 | 3,984 | 811 | 295 | 826 | 78 | 846 | 3,388 | 960 |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 3,683 | 2,864 | 618 | 223 | 611 | 62 | 616 | 2,406 | 629 |
| Primary or secondary school | 237 | 114 | 45 | 12 | 32 | Q | 33 | 87 | 44 |
| College or university | 84 | 69 | 8 | 4 | 9 | Q | 15 | 57 | 44 |
| Office complex | 154 | 112 | 4 | 3 | 4 | Q | 12 | 107 | 30 |
| Retail complex | 258 | 210 | 84 | 41 | 85 | 7 | 67 | 171 | 79 |
| Storage complex | 314 | 37 | Q | N | Q | Q | Q | 33 | 7 |
| Religious campus or complex | 197 | 158 | Q | Q | 29 | Q | 22 | 138 | Q |
| Health care complex | 52 | 46 | 14 | 5 | 9 | (*) | 19 | 42 | 18 |
| Lodging or resort complex | 65 | 49 | 7 | Q | 11 | Q | 14 | 42 | 14 |
| Transportation complex | 35 | 25 | (*) | Q | Q | Q | Q | 25 | 7 |
| Government complex | 104 | 74 | 3 | Q | 11 | Q | 12 | 72 | 22 |
| Other | 371 | 226 | 16 | Q | 25 | Q | 34 | 209 | 54 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 5,234 | 3,984 | 811 | 295 | 826 | 78 | 846 | 3,388 | 960 |
| Natural gas | 2,933 | 2,433 | 593 | 208 | 573 | 53 | 594 | 2,032 | 648 |
| Fuel oil | 467 | 385 | 82 | 27 | 89 | 10 | 107 | 346 | 130 |
| District heat | 48 | 38 | 12 | 4 | 9 | Q | 15 | 30 | 27 |
| District chilled water | 54 | 36 | 7 | 3 | 7 | Q | 11 | 30 | 22 |
| Propane | 510 | 430 | 106 | 39 | 115 | 9 | 110 | 376 | 93 |
| Other | 172 | 141 | 33 | 7 | 29 | Q | 32 | 125 | 40 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 4,722 | 3,801 | 768 | 286 | 783 | 70 | 805 | 3,235 | 926 |
| Buildings with cooling | 4,461 | 3,687 | 780 | 287 | 777 | 75 | 824 | 3,119 | 921 |
| Buildings with water heating | 4,423 | 3,726 | 803 | 293 | 813 | 76 | 837 | 3,143 | 924 |
| Buildings with cooking | 1,589 | 1,584 | 660 | 242 | 600 | 53 | 630 | 1,227 | 354 |
| Buildings with manufacturing | 259 | 215 | 39 | 11 | 42 | Q | 38 | 190 | 57 |
| Buildings with electricity generation | 410 | 377 | 118 | 44 | 110 | 15 | 161 | 329 | 184 |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | |
| Any refrigeration | 3,984 | 3,984 | 811 | 295 | 826 | 78 | 846 | 3,388 | 960 |
| Walk-in units | 811 | 811 | 811 | 241 | 500 | 58 | 523 | 447 | 260 |
| Cases or cabinets | 915 | 915 | 555 | 295 | 826 | 51 | 534 | 517 | 274 |
| Large cold storage areas | 78 | 78 | 58 | 28 | 49 | 78 | 48 | 51 | 35 |
| Commercial ice makers | 846 | 846 | 523 | 216 | 485 | 48 | 846 | 581 | 328 |
| Residential-type or compact units | 3,388 | 3,388 | 447 | 170 | 469 | 51 | 581 | 3,388 | 777 |
| Vending machines | 960 | 960 | 260 | 121 | 249 | 35 | 328 | 777 | 960 |
| No refrigeration | 1,573 | N | N | N | N | N | N | N | N |

## Table B45. Refrigeration equipment, number of buildings, 2012

| | Number of buildings (thousand) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 5,557 | 3,984 | 811 | 295 | 826 | 78 | 846 | 3,388 | 960 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 153 | 153 | 97 | 58 | 81 | 18 | 89 | 115 | 72 |
| Fast food or small restaurant | 173 | 173 | 143 | 80 | 125 | 15 | 118 | 129 | 88 |
| Cafeteria or large restaurant | 130 | 129 | 105 | 35 | 74 | 6 | 90 | 99 | 83 |
| Commercial kitchen/ food preparation area | 282 | 281 | 146 | 61 | 147 | 18 | 145 | 208 | 115 |
| Small kitchen area | 736 | 733 | 96 | 45 | 113 | 13 | 120 | 691 | 119 |

[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).

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

N = No cases in reporting sample.

(*) = Value rounds to zero in the units displayed.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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

Release date: April 2015
Revised date: May 2016

## Table B46. Refrigeration equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 87,093 | 73,645 | 28,361 | 13,712 | 25,988 | 4,171 | 32,734 | 62,381 | 43,936 |
| **Building floorspace (square feet)** | | | | | | | | | |
| 1,001 to 5,000 | 8,041 | 5,448 | 1,039 | 294 | 1,034 | Q | 851 | 4,571 | 531 |
| 5,001 to 10,000 | 8,900 | 6,565 | 1,103 | 428 | 1,175 | Q | 1,248 | 5,741 | 1,252 |
| 10,001 to 25,000 | 14,105 | 11,012 | 1,837 | 774 | 2,086 | Q | 2,424 | 9,307 | 3,940 |
| 25,001 to 50,000 | 11,917 | 9,901 | 2,247 | 826 | 2,486 | Q | 3,017 | 8,558 | 5,558 |
| 50,001 to 100,000 | 13,918 | 12,334 | 5,193 | 2,077 | 4,305 | 718 | 6,276 | 10,393 | 8,174 |
| 100,001 to 200,000 | 12,415 | 11,371 | 5,729 | 2,799 | 4,901 | 825 | 6,236 | 9,530 | 9,288 |
| 200,001 to 500,000 | 10,724 | 10,080 | 6,233 | 3,594 | 5,716 | 1,139 | 7,022 | 8,371 | 8,881 |
| Over 500,000 | 7,074 | 6,935 | 4,981 | 2,921 | 4,286 | 804 | 5,660 | 5,910 | 6,311 |
| **Principal building activity** | | | | | | | | | |
| Education | 12,239 | 11,319 | 7,060 | 2,072 | 5,176 | Q | 6,152 | 8,956 | 7,666 |
| Food sales | 1,252 | 1,248 | 1,026 | 848 | 1,014 | 285 | 688 | 505 | 670 |
| Food service | 1,819 | 1,819 | 1,524 | 373 | 1,135 | Q | 1,338 | 929 | 207 |
| Health care | 4,155 | 4,060 | 2,332 | 1,508 | 2,082 | 319 | 2,891 | 3,678 | 3,232 |
| Inpatient | 2,374 | 2,374 | 2,216 | 1,430 | 1,753 | 311 | 2,293 | 2,059 | 2,297 |
| Outpatient | 1,781 | 1,686 | Q | Q | 329 | Q | 598 | 1,619 | 936 |
| Lodging | 5,826 | 5,713 | 3,126 | 898 | 2,535 | Q | 4,303 | 4,554 | 4,286 |
| Mercantile | 11,330 | 10,328 | 6,088 | 4,785 | 6,465 | 1,200 | 5,554 | 8,831 | 7,074 |
| Retail (other than mall) | 5,439 | 4,447 | 1,466 | 1,249 | 1,756 | Q | 1,141 | 3,180 | 2,399 |
| Enclosed and strip malls | 5,890 | 5,881 | 4,622 | 3,536 | 4,709 | 918 | 4,414 | 5,651 | 4,675 |
| Office | 15,952 | 13,979 | 3,419 | 1,878 | 3,394 | Q | 5,458 | 12,888 | 8,853 |
| Public assembly | 5,559 | 4,956 | 1,545 | 816 | 1,495 | Q | 2,189 | 4,309 | 2,714 |
| Public order and safety | 1,440 | 1,384 | Q | Q | Q | Q | 521 | 1,203 | 944 |
| Religious worship | 4,557 | 4,243 | Q | Q | 775 | Q | 1,064 | 3,789 | 449 |
| Service | 4,630 | 3,626 | Q | N | Q | N | Q | 3,145 | 1,710 |
| Warehouse and storage | 13,077 | 8,584 | 848 | Q | 842 | 883 | 1,695 | 7,545 | 4,998 |
| Other | 2,002 | 1,716 | 369 | Q | 398 | Q | 301 | 1,513 | 936 |
| Vacant | 3,256 | 670 | Q | Q | Q | N | Q | 536 | Q |
| **Year constructed** | | | | | | | | | |
| Before 1920 | 3,983 | 3,015 | 667 | 337 | 757 | Q | 741 | 2,569 | 1,169 |
| 1920 to 1945 | 6,025 | 4,839 | 1,591 | 743 | 1,691 | Q | 1,595 | 4,003 | 2,114 |
| 1946 to 1959 | 7,381 | 6,269 | 2,104 | 689 | 1,743 | Q | 2,350 | 5,336 | 3,648 |
| 1960 to 1969 | 10,362 | 8,963 | 3,574 | 1,432 | 2,926 | 387 | 3,650 | 7,745 | 5,235 |
| 1970 to 1979 | 10,846 | 9,062 | 4,015 | 1,832 | 3,643 | 497 | 4,044 | 7,772 | 5,659 |
| 1980 to 1989 | 15,230 | 12,812 | 5,184 | 2,390 | 4,445 | 829 | 6,287 | 10,950 | 8,021 |
| 1990 to 1999 | 13,803 | 11,609 | 4,937 | 2,590 | 4,303 | 688 | 5,983 | 9,498 | 7,222 |
| 2000 to 2003 | 7,215 | 6,446 | 2,184 | 1,021 | 2,251 | 418 | 3,015 | 5,535 | 4,228 |
| 2004 to 2007 | 6,524 | 5,635 | 2,390 | 1,535 | 2,102 | 520 | 2,628 | 4,597 | 3,530 |
| 2008 to 2012 | 5,723 | 4,995 | 1,715 | 1,144 | 2,127 | Q | 2,441 | 4,376 | 3,109 |

## Table B46. Refrigeration equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 87,093 | 73,645 | 28,361 | 13,712 | 25,988 | 4,171 | 32,734 | 62,381 | 43,936 |
| **Census region and division** | | | | | | | | | |
| Northeast | 15,534 | 13,612 | 5,870 | 2,771 | 5,523 | 569 | 5,573 | 11,436 | 8,448 |
| New England | 4,302 | 3,568 | 1,424 | 539 | 1,444 | Q | 1,240 | 3,081 | 1,902 |
| Middle Atlantic | 11,232 | 10,044 | 4,445 | 2,232 | 4,080 | 430 | 4,333 | 8,354 | 6,546 |
| Midwest | 18,919 | 16,570 | 6,331 | 2,779 | 6,300 | 972 | 6,598 | 14,257 | 9,673 |
| East North Central | 12,742 | 11,374 | 4,481 | 1,959 | 4,475 | 695 | 4,666 | 9,850 | 6,685 |
| West North Central | 6,178 | 5,196 | 1,850 | 821 | 1,825 | Q | 1,932 | 4,407 | 2,988 |
| South | 34,279 | 28,755 | 10,777 | 5,224 | 9,239 | 1,700 | 14,516 | 24,189 | 17,627 |
| South Atlantic | 17,981 | 15,268 | 6,399 | 3,134 | 4,938 | 1,049 | 7,957 | 13,129 | 9,706 |
| East South Central | 4,904 | 4,498 | 1,199 | 698 | 1,531 | Q | 2,457 | 3,747 | 2,702 |
| West South Central | 11,394 | 8,989 | 3,179 | 1,392 | 2,770 | 316 | 4,102 | 7,312 | 5,219 |
| West | 18,360 | 14,709 | 5,384 | 2,938 | 4,926 | 930 | 6,048 | 12,499 | 8,188 |
| Mountain | 4,981 | 4,179 | 1,898 | 790 | 1,584 | Q | 2,093 | 3,323 | 2,529 |
| Pacific | 13,379 | 10,530 | 3,486 | 2,148 | 3,342 | 676 | 3,955 | 9,176 | 5,659 |
| **Climate region[1]** | | | | | | | | | |
| Very cold/Cold | 31,898 | 27,633 | 10,742 | 4,568 | 10,468 | 1,531 | 11,045 | 23,817 | 16,400 |
| Mixed-humid | 27,873 | 24,268 | 10,079 | 4,815 | 8,565 | 1,297 | 12,168 | 20,411 | 15,132 |
| Mixed-dry/Hot-dry | 12,037 | 9,429 | 2,842 | 1,913 | 2,881 | 554 | 3,441 | 8,210 | 5,131 |
| Hot-humid | 12,831 | 10,299 | 3,922 | 1,918 | 3,423 | 701 | 5,199 | 8,180 | 6,115 |
| Marine | 2,454 | 2,015 | 775 | 498 | 651 | Q | 881 | 1,762 | 1,157 |
| **Number of floors** | | | | | | | | | |
| One | 39,809 | 31,001 | 10,649 | 5,883 | 10,051 | 1,931 | 11,581 | 25,926 | 15,933 |
| Two | 20,206 | 17,915 | 6,100 | 2,339 | 5,301 | 942 | 6,986 | 15,363 | 9,519 |
| Three | 8,140 | 7,152 | 2,393 | 741 | 2,494 | Q | 2,980 | 6,139 | 4,288 |
| Four to nine | 13,535 | 12,368 | 5,897 | 2,881 | 5,105 | 751 | 7,380 | 10,708 | 9,715 |
| Ten or more | 5,404 | 5,209 | 3,322 | 1,868 | 3,037 | 348 | 3,807 | 4,245 | 4,481 |
| **Number of workers (main shift)** | | | | | | | | | |
| Fewer than 5 | 17,751 | 10,252 | 1,110 | 293 | 1,764 | Q | 1,648 | 8,745 | 2,055 |
| 5 to 9 | 8,973 | 7,466 | 1,132 | 490 | 1,420 | Q | 1,553 | 6,349 | 2,088 |
| 10 to 19 | 9,623 | 8,231 | 1,695 | 470 | 1,750 | Q | 2,466 | 7,070 | 3,252 |
| 20 to 49 | 14,514 | 13,005 | 4,819 | 2,034 | 3,843 | 641 | 5,227 | 11,172 | 7,595 |
| 50 to 99 | 13,476 | 12,696 | 6,582 | 3,018 | 5,217 | 988 | 6,404 | 10,606 | 9,583 |
| 100 to 249 | 10,941 | 10,456 | 5,592 | 3,109 | 5,183 | 1,059 | 6,584 | 8,529 | 8,983 |
| 250 or more | 11,815 | 11,539 | 7,432 | 4,298 | 6,811 | 994 | 8,852 | 9,909 | 10,379 |
| **Weekly operating hours** | | | | | | | | | |
| Fewer than 40 | 8,220 | 4,464 | 763 | Q | 889 | Q | 923 | 4,054 | 804 |
| 40 to 48 | 15,828 | 13,062 | 3,048 | 1,032 | 2,413 | Q | 3,721 | 11,544 | 6,037 |
| 49 to 60 | 20,529 | 17,409 | 4,492 | 1,553 | 4,178 | 409 | 5,866 | 15,168 | 9,750 |
| 61 to 84 | 15,867 | 14,497 | 6,754 | 4,099 | 6,408 | 1,128 | 7,027 | 12,583 | 9,416 |
| 85 to 167 | 9,395 | 8,480 | 4,133 | 2,352 | 4,352 | 835 | 4,424 | 6,464 | 5,755 |
| Open continuously | 17,253 | 15,732 | 9,171 | 4,541 | 7,748 | 1,409 | 10,772 | 12,566 | 12,173 |

## Table B46. Refrigeration equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 87,093 | 73,645 | 28,361 | 13,712 | 25,988 | 4,171 | 32,734 | 62,381 | 43,936 |
| **Campus or complex activity** | | | | | | | | | |
| Not part of a campus or complex | 52,275 | 45,311 | 16,375 | 7,615 | 14,789 | 2,706 | 18,912 | 38,547 | 24,972 |
| Primary or secondary school | 4,616 | 3,759 | 2,684 | 692 | 1,922 | Q | 2,060 | 2,912 | 2,736 |
| College or university | 4,068 | 3,703 | 704 | 381 | 815 | Q | 1,446 | 3,013 | 3,106 |
| Office complex | 3,456 | 2,919 | 768 | 487 | 637 | Q | 1,198 | 2,708 | 1,834 |
| Retail complex | 5,159 | 4,684 | 2,894 | 2,320 | 2,961 | 584 | 2,682 | 4,178 | 3,216 |
| Storage complex | 3,212 | 861 | Q | N | Q | Q | Q | 706 | 406 |
| Religious campus or complex | 1,932 | 1,726 | Q | Q | 591 | Q | 460 | 1,279 | Q |
| Health care complex | 3,362 | 3,277 | 2,434 | 1,348 | 2,066 | 279 | 2,804 | 2,833 | 2,791 |
| Lodging or resort complex | 1,295 | 1,220 | 744 | Q | 591 | Q | 908 | 843 | 814 |
| Transportation complex | 554 | 450 | 198 | Q | Q | Q | 283 | 432 | 296 |
| Government complex | 2,107 | 1,902 | 576 | Q | 806 | Q | 817 | 1,633 | 1,409 |
| Other | 5,057 | 3,832 | 727 | Q | 622 | Q | 1,114 | 3,297 | 2,096 |
| **Energy sources (more than one may apply)** | | | | | | | | | |
| Electricity | 84,869 | 73,645 | 28,361 | 13,712 | 25,988 | 4,171 | 32,734 | 62,381 | 43,936 |
| Natural gas | 58,725 | 53,580 | 24,043 | 11,668 | 21,325 | 3,530 | 26,676 | 45,249 | 34,019 |
| Fuel oil | 20,200 | 19,094 | 10,470 | 5,108 | 9,160 | 1,575 | 12,029 | 16,450 | 14,989 |
| District heat | 5,964 | 5,598 | 2,638 | 1,312 | 2,478 | 212 | 3,537 | 4,667 | 4,874 |
| District chilled water | 4,608 | 4,309 | 1,786 | 904 | 1,776 | Q | 2,553 | 3,699 | 3,647 |
| Propane | 7,706 | 7,073 | 3,156 | 1,250 | 2,927 | 569 | 3,598 | 6,004 | 4,254 |
| Other | 3,826 | 3,626 | 1,592 | 728 | 1,319 | Q | 1,663 | 3,016 | 2,528 |
| **Energy end uses (more than one may apply)** | | | | | | | | | |
| Buildings with space heating | 80,078 | 71,446 | 27,734 | 13,458 | 25,488 | 3,991 | 32,098 | 60,495 | 43,101 |
| Buildings with cooling | 79,294 | 71,250 | 27,981 | 13,574 | 25,611 | 4,063 | 32,480 | 60,330 | 43,356 |
| Buildings with water heating | 79,015 | 71,439 | 28,290 | 13,673 | 25,856 | 4,139 | 32,576 | 60,306 | 43,096 |
| Buildings with cooking | 38,546 | 38,499 | 25,906 | 12,439 | 21,359 | 3,280 | 25,727 | 31,264 | 24,686 |
| Buildings with manufacturing | 5,078 | 4,517 | 1,009 | 372 | 1,087 | Q | 1,125 | 4,047 | 2,522 |
| Buildings with electricity generation | 25,642 | 24,873 | 14,439 | 7,171 | 12,346 | 2,173 | 16,752 | 21,557 | 20,385 |
| **Refrigeration equipment (more than one may apply)** | | | | | | | | | |
| Any refrigeration | 73,645 | 73,645 | 28,361 | 13,712 | 25,988 | 4,171 | 32,734 | 62,381 | 43,936 |
| Walk-in units | 28,361 | 28,361 | 28,361 | 11,940 | 18,593 | 3,175 | 22,620 | 21,549 | 21,314 |
| Cases or cabinets | 28,719 | 28,719 | 20,388 | 13,712 | 25,988 | 3,084 | 21,298 | 21,701 | 21,232 |
| Large cold storage areas | 4,171 | 4,171 | 3,175 | 2,354 | 2,801 | 4,171 | 2,960 | 3,185 | 3,153 |
| Commercial ice makers | 32,734 | 32,734 | 22,620 | 11,305 | 19,689 | 2,960 | 32,734 | 27,085 | 25,508 |
| Residential-type or compact units | 62,381 | 62,381 | 21,549 | 10,918 | 19,696 | 3,185 | 27,085 | 62,381 | 37,171 |
| Vending machines | 43,936 | 43,936 | 21,314 | 11,425 | 19,337 | 3,153 | 25,508 | 37,171 | 43,936 |
| No refrigeration | 13,448 | N | N | N | N | N | N | N | N |

## Table B46. Refrigeration equipment, floorspace, 2012

| | Total floorspace (million square feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Type of refrigeration equipment (more than one may apply) | | | | | | |
| | All buildings | Buildings with any refrig-eration equip-ment | Walk-in units | Open cases or cabinets | Closed cases or cabinets | Large cold storage areas | Comm-ercial ice makers | Resid-ential-type or compact units | Vending mach-ines |
| **All buildings** | 87,093 | 73,645 | 28,361 | 13,712 | 25,988 | 4,171 | 32,734 | 62,381 | 43,936 |
| **Food preparation or serving areas in non-food service buildings (more than one may apply)** | | | | | | | | | |
| Snack bar or concession stand | 9,884 | 9,866 | 8,063 | 4,699 | 6,772 | 1,328 | 8,194 | 8,482 | 8,153 |
| Fast food or small restaurant | 9,787 | 9,787 | 8,456 | 5,648 | 7,783 | 1,364 | 8,187 | 7,913 | 7,954 |
| Cafeteria or large restaurant | 15,222 | 15,219 | 13,687 | 6,211 | 10,137 | 1,180 | 12,404 | 12,434 | 12,235 |
| Commercial kitchen/ food preparation area | 16,150 | 16,142 | 13,735 | 6,147 | 11,039 | 2,183 | 12,848 | 12,754 | 12,279 |
| Small kitchen area | 14,054 | 14,035 | 6,719 | 3,356 | 5,864 | 1,219 | 7,518 | 12,806 | 7,716 |

[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).

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

N = No cases in reporting sample.

Notes: ● Because of rounding, data may not sum to totals. ● See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition 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/

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