

1999 Commercial Buildings Energy Consumption Survey Detailed Tables

Building Characteristics Tables

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Table B1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Mean Square Feet per Building (thousand) | Mean Square Feet per Worker | Mean Hours per Week |
|--|-----------------------------|---|--|---|-----------------------------------|------------------------|
| All Buildings | 4,657 | 67,338 | 81,852 | 14.5 | 823 | 60 |
| Building Floorspace (Square Feet) | | | | | | |
| 1,001 to 5,000 | 2,348 | 6,774 | 11,125 | 2.9 | 609 | 57 |
| 5,001 to 10,000 | 1,110 | 8,238 | 10,968 | 7.4 | 751 | 53 |
| 10,001 to 25,000 | 708 | 11,153 | 11,378 | 15.7 | 980 | 65 |
| 25,001 to 50,000 | 257 | 9,311 | 9,243 | 36.2 | 1,007 | 78 |
| 50,001 to 100,000 | 145 | 10,112 | 12,777 | 69.9 | 791 | 80 |
| 100,001 to 200,000 | 59 | 8,271 | 8,856 | 139.4 | 934 | 90 |
| 200,001 to 500,000 | 23 | 6,851 | 8,798 | 296.3 | 779 | 101 |
| Over 500,000 | 7 | 6,628 | 8,707 | 929.0 | 761 | 110 |
| Principal Building Activity | | | | | | |
| Education | 327 | 8,651 | 8,927 | 26.4 | 969 | 50 |
| Food Sales | 174 | 994 | 980 | 5.7 | 1,014 | 118 |
| Food Service | 349 | 1,851 | 4,031 | 5.3 | 459 | 84 |
| Health Care | 127 | 2,918 | 6,219 | 22.9 | 469 | 66 |
| Inpatient | 11 | 1,865 | 3,350 | 168.2 | 557 | 165 |
| Outpatient | 116 | 1,053 | 2,869 | 9.1 | 367 | 56 |
| Lodging | 153 | 4,521 | 2,356 | 29.5 | 1,919 | 150 |
| Mercantile | 667 | 10,398 | 11,384 | 15.6 | 913 | 65 |
| Retail (Other Than Mall) | 534 | 4,766 | 4,668 | 8.9 | 1,021 | 62 |
| Enclosed and Strip Malls | 133 | 5,631 | 6,716 | 42.2 | 838 | 77 |
| Office | 739 | 12,044 | 28,969 | 16.3 | 416 | 53 |
| Public Assembly | 305 | 4,393 | 3,147 | 14.4 | 1,396 | 54 |
| Public Order and Safety | 72 | 1,168 | 1,702 | 16.2 | 686 | 95 |
| Religious Worship | 307 | 3,405 | 1,654 | 11.1 | 2,059 | 29 |
| Service | 478 | 3,388 | 4,554 | 7.1 | 744 | 63 |
| Warehouse and Storage | 603 | 10,477 | 6,216 | 17.4 | 1,685 | 49 |
| Other | 102 | 1,222 | 1,453 | 12.0 | 841 | 49 |
| Vacant | 253 | 1,908 | 261 | 7.6 | Q | Q |
| Year Constructed | | | | | | |
| 1919 or Before | 419 | 4,034 | 3,911 | 9.6 | 1,031 | 46 |
| 1920 to 1945 | 499 | 6,445 | 5,925 | 12.9 | 1,088 | 52 |
| 1946 to 1959 | 763 | 9,127 | 9,832 | 12.0 | 928 | 52 |
| 1960 to 1969 | 665 | 10,866 | 12,886 | 16.3 | 843 | 63 |
| 1970 to 1979 | 774 | 11,840 | 15,842 | 15.3 | 747 | 64 |
| 1980 to 1989 | 846 | 13,931 | 19,828 | 16.5 | 703 | 69 |
| 1990 to 1999 | 690 | 11,094 | 13,628 | 16.1 | 814 | 64 |
| Floors | | | | | | |
| One | 2,879 | 26,800 | 29,908 | 9.3 | 896 | 58 |
| Two | 1,168 | 16,985 | 18,749 | 14.5 | 906 | 61 |
| Three | 420 | 8,928 | 9,545 | 21.3 | 935 | 60 |
| Four to Nine | 178 | 10,180 | 15,069 | 57.2 | 676 | 85 |
| Ten or More | 11 | 4,445 | 8,582 | 386.9 | 518 | 97 |
| Census Region and Division | | | | | | |
| Northeast | 686 | 12,360 | 14,407 | 18.0 | 858 | 66 |
| New England | 208 | 3,735 | 3,889 | 18.0 | 960 | 59 |
| Middle Atlantic | 479 | 8,625 | 10,518 | 18.0 | 820 | 69 |
| Midwest | 1,188 | 16,761 | 18,279 | 14.1 | 917 | 56 |
| East North Central | 782 | 11,205 | 11,668 | 14.3 | 960 | 56 |
| West North Central | 406 | 5,556 | 6,611 | 13.7 | 840 | 56 |
| South | 1,762 | 23,485 | 29,186 | 13.3 | 805 | 58 |
| South Atlantic | 748 | 11,001 | 14,051 | 14.7 | 783 | 57 |
| East South Central | 396 | 5,220 | 5,908 | 13.2 | 884 | 65 |
| West South Central | 618 | 7,264 | 9,226 | 11.8 | 787 | 56 |
| West | 1,021 | 14,731 | 19,981 | 14.4 | 737 | 62 |
| Mountain | 315 | 4,579 | 5,201 | 14.5 | 880 | 54 |
| Pacific | 705 | 10,152 | 14,780 | 14.4 | 687 | 66 |

Table B1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Mean Square Feet per Building (thousand) | Mean Square Feet per Worker | Mean Hours per Week |
|---|-----------------------------|---|--|---|-----------------------------------|------------------------|
| Climate Zone: 45-Year Average | | | | | | |
| Under 2,000 CDD and -- | | | | | | |
| More than 7000 HDD | 525 | 5,890 | 5,857 | 11.2 | 1,006 | 62 |
| 5500-7000 HDD | 986 | 17,083 | 18,323 | 17.3 | 932 | 60 |
| 4000-5499 HDD | 1,085 | 16,243 | 22,136 | 15.0 | 734 | 60 |
| Fewer than 4000 HDD | 1,134 | 16,333 | 21,145 | 14.4 | 772 | 60 |
| 2,000 CDD or More and -- | | | | | | |
| Fewer than 4000 HDD | 926 | 11,788 | 14,393 | 12.7 | 819 | 57 |
| Workers (main shift) | | | | | | |
| Fewer than 5 | 2,376 | 14,321 | 4,240 | 6.0 | 3,377 | 52 |
| 5 to 9 | 807 | 6,325 | 5,313 | 7.8 | 1,190 | 60 |
| 10 to 19 | 683 | 8,028 | 8,588 | 11.8 | 935 | 65 |
| 20 to 49 | 487 | 10,814 | 14,098 | 22.2 | 767 | 74 |
| 50 to 99 | 174 | 8,898 | 11,427 | 51.1 | 779 | 81 |
| 100 to 249 | 90 | 8,356 | 12,617 | 92.4 | 662 | 80 |
| 250 or More | 39 | 10,595 | 25,569 | 270.0 | 414 | 96 |
| Weekly Operating Hours | | | | | | |
| 39 or Fewer | 978 | 6,596 | 3,517 | 6.7 | 1,876 | 11 |
| 40 to 48 | 1,156 | 13,105 | 15,619 | 11.3 | 839 | 43 |
| 49 to 60 | 986 | 14,200 | 20,714 | 14.4 | 686 | 55 |
| 61 to 84 | 664 | 12,458 | 16,147 | 18.7 | 772 | 74 |
| 85 to 167 | 474 | 9,116 | 10,796 | 19.2 | 844 | 104 |
| Open Continuously | 398 | 11,863 | 15,060 | 29.8 | 788 | 168 |
| Ownership and Occupancy | | | | | | |
| Nongovernment Owned | 4,135 | 54,994 | 67,787 | 13.3 | 811 | 60 |
| Owner Occupied | 2,801 | 37,785 | 46,555 | 13.5 | 812 | 63 |
| Nonowner Occupied | 1,099 | 15,596 | 21,233 | 14.2 | 735 | 66 |
| Unoccupied | 236 | 1,613 | 0 | 6.8 | 0 | 0 |
| Government Owned | 521 | 12,343 | 14,065 | 23.7 | 878 | 57 |
| Vacancy Status | | | | | | |
| Completely Vacant | 140 | 953 | 0 | 6.8 | 0 | 0 |
| Mostly Vacant | 113 | 956 | 261 | 8.5 | Q | Q |
| Partially Vacant | 697 | 15,520 | 20,518 | 22.3 | 756 | 53 |
| Not At All Vacant | 3,707 | 49,910 | 61,073 | 13.5 | 817 | 65 |
| Number of Establishments | | | | | | |
| One | 3,528 | 43,343 | 48,677 | 12.3 | 890 | 63 |
| 2 to 5 | 688 | 10,582 | 12,379 | 15.4 | 855 | 61 |
| 6 to 10 | 114 | 3,574 | 6,580 | 31.4 | 543 | 73 |
| 11 to 20 | 48 | 3,260 | 5,965 | 68.0 | 547 | 76 |
| More than 20 | 27 | 4,811 | 8,251 | 175.2 | 583 | 77 |
| Currently Unoccupied | 251 | 1,769 | 0 | 7.0 | 0 | 0 |
| Energy Sources (more than one may apply) | | | | | | |
| Electricity | 4,395 | 65,716 | 81,768 | 15.0 | 804 | 62 |
| Natural Gas | 2,670 | 45,525 | 56,264 | 17.1 | 809 | 65 |
| Fuel Oil | 434 | 13,285 | 19,583 | 30.6 | 678 | 68 |
| District Heat | 117 | 5,891 | 8,654 | 50.2 | 681 | 83 |
| District Chilled Water | 50 | 2,750 | 4,637 | 55.4 | 593 | 81 |
| Propane | 451 | 6,290 | 6,349 | 14.0 | 991 | 59 |
| Wood | 79 | 570 | 578 | 7.2 | 986 | 69 |
| Coal | Q | Q | Q | Q | Q | Q |
| Solar | Q | Q | Q | Q | Q | Q |
| Other | 69 | 1,563 | 2,578 | 22.7 | 606 | 56 |

Table B1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Mean Square Feet per Building (thousand) | Mean Square Feet per Worker | Mean Hours per Week |
|---|-----------------------------|---|--|---|-----------------------------------|------------------------|
| Space-Heating Energy Sources (more than one may apply) | | | | | | |
| Electricity | 1,880 | 32,291 | 43,236 | 17.2 | 747 | 65 |
| Natural Gas | 2,380 | 37,902 | 45,992 | 15.9 | 824 | 63 |
| Fuel Oil | 377 | 5,611 | 6,542 | 14.9 | 858 | 61 |
| District Heat | 96 | 5,534 | 8,116 | 57.7 | 682 | 79 |
| Propane | 307 | 2,728 | 2,428 | 8.9 | 1,123 | 51 |
| Wood | 66 | 377 | 338 | 5.7 | 1,115 | 70 |
| Coal | Q | Q | Q | Q | Q | Q |
| Solar | Q | Q | Q | Q | Q | Q |
| Other | 26 | 409 | 760 | 15.8 | 538 | 50 |
| Primary Space-Heating Energy Source | | | | | | |
| Electricity | 1,128 | 17,627 | 25,423 | 15.6 | 693 | 70 |
| Natural Gas | 2,189 | 32,729 | 39,164 | 15.0 | 836 | 62 |
| Fuel Oil | 302 | 3,719 | 4,247 | 12.3 | 875 | 60 |
| District Heat | 77 | 5,077 | 7,008 | 66.0 | 724 | 85 |
| Propane | 282 | 2,107 | 1,907 | 7.5 | 1,105 | 49 |
| Wood | Q | Q | Q | Q | Q | Q |
| Coal | Q | Q | Q | Q | Q | Q |
| Solar | N | N | N | N | N | N |
| Other | Q | Q | Q | Q | Q | Q |
| Cooling Energy Sources (more than one may apply) | | | | | | |
| Electricity | 3,450 | 55,545 | 72,764 | 16.1 | 763 | 65 |
| Natural Gas | 142 | 1,914 | 2,846 | 13.5 | 672 | 75 |
| District Chilled Water | 50 | 2,750 | 4,637 | 55.4 | 593 | 81 |
| Water-Heating Energy Sources (more than one may apply) | | | | | | |
| Electricity | 1,546 | 24,171 | 33,505 | 15.6 | 721 | 62 |
| Natural Gas | 1,520 | 29,196 | 35,930 | 19.2 | 813 | 72 |
| Fuel Oil | 110 | 2,218 | 2,905 | 20.2 | 763 | 75 |
| District Heat | 62 | 4,182 | 5,870 | 67.5 | 712 | 102 |
| Propane | 130 | 1,371 | 1,465 | 10.5 | 936 | 77 |
| Cooking Energy Sources (more than one may apply) | | | | | | |
| Electricity | 437 | 13,733 | 18,369 | 31.4 | 748 | 89 |
| Natural Gas | 505 | 16,785 | 21,352 | 33.2 | 786 | 81 |
| Propane | 118 | 1,754 | 2,187 | 14.9 | 802 | 72 |
| Energy End Uses (more than one may apply) | | | | | | |
| Buildings with Space Heating | 4,016 | 61,602 | 78,082 | 15.3 | 789 | 63 |
| Buildings with Cooling | 3,560 | 58,474 | 77,367 | 16.4 | 756 | 66 |
| Buildings with Water Heating | 3,239 | 56,115 | 73,385 | 17.3 | 765 | 68 |
| Buildings with Cooking | 857 | 24,681 | 31,603 | 28.8 | 781 | 81 |
| Buildings with Manufacturing | 151 | 3,126 | 4,351 | 20.7 | 718 | 56 |
| Buildings with Electricity Generation | 172 | 11,882 | 18,904 | 69.3 | 629 | 93 |
| Percent of Floorspace Heated | | | | | | |
| Not Heated | 641 | 5,736 | 3,770 | 8.9 | 1,521 | 38 |
| 1 to 50 | 576 | 7,593 | 5,239 | 13.2 | 1,449 | 57 |
| 51 to 99 | 627 | 10,745 | 13,056 | 17.1 | 823 | 71 |
| 100 | 2,813 | 43,264 | 59,787 | 15.4 | 724 | 63 |

Table B1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Mean Square Feet per Building (thousand) | Mean Square Feet per Worker | Mean Hours per Week |
|---|-----------------------------|---|--|---|-----------------------------------|------------------------|
| Percent of Floorspace Cooled | | | | | | |
| Not Cooled | 1,097 | 8,864 | 4,485 | 8.1 | 1,976 | 41 |
| 1 to 50 | 1,012 | 16,846 | 14,146 | 16.6 | 1,191 | 61 |
| 51 to 99 | 751 | 16,966 | 23,833 | 22.6 | 712 | 73 |
| 100 | 1,796 | 24,662 | 39,388 | 13.7 | 626 | 65 |
| Percent Lit When Open | | | | | | |
| Zero | 34 | 173 | Q | 5.1 | 3,151 | 92 |
| 1 to 50 | 835 | 9,187 | 4,917 | 11.0 | 1,868 | 58 |
| 51 to 99 | 1,228 | 20,665 | 28,668 | 16.8 | 721 | 67 |
| 100 | 2,096 | 34,233 | 47,951 | 16.3 | 714 | 67 |
| Building Never Open/ Electricity Not Used | 464 | 3,080 | 261 | 6.6 | 11,787 | 10 |
| Percent Lit When Closed | | | | | | |
| Zero | 2,174 | 20,771 | 21,669 | 9.6 | 959 | 43 |
| 1 to 50 | 1,688 | 30,950 | 41,943 | 18.3 | 738 | 61 |
| 51 to 100 | 143 | 2,160 | 3,096 | 15.1 | 698 | 73 |
| Building Never Closed/ Electricity Not Used | 652 | 13,457 | 15,143 | 20.7 | 889 | 108 |
| Heating Equipment (more than one may apply) | | | | | | |
| Heat Pumps | 492 | 8,923 | 12,616 | 18.1 | 707 | 63 |
| Furnaces | 1,460 | 14,449 | 15,845 | 9.9 | 912 | 54 |
| Individual Space Heaters | 894 | 17,349 | 19,140 | 19.4 | 906 | 61 |
| District Heat | 96 | 5,534 | 8,116 | 57.7 | 682 | 79 |
| Boilers | 581 | 19,522 | 24,374 | 33.6 | 801 | 72 |
| Packaged Heating Units | 1,347 | 25,743 | 32,224 | 19.1 | 799 | 70 |
| Other | 185 | 4,073 | 7,008 | 22.1 | 581 | 75 |
| Cooling Equipment (more than one may apply) | | | | | | |
| Residential-Type Central | | | | | | |
| Air Conditioners | 676 | 8,329 | 10,136 | 12.3 | 822 | 59 |
| Heat Pumps | 485 | 9,147 | 13,463 | 18.8 | 679 | 64 |
| Individual Air Conditioners | 799 | 14,276 | 16,652 | 17.9 | 857 | 66 |
| District Chilled Water | 50 | 2,750 | 4,637 | 55.4 | 593 | 81 |
| Central Chillers | 130 | 12,909 | 21,586 | 99.7 | 598 | 84 |
| Packaged Air Conditioning | | | | | | |
| Units | 1,953 | 36,527 | 48,283 | 18.7 | 757 | 68 |
| Swamp Coolers | 136 | 2,219 | 2,425 | 16.3 | 915 | 63 |
| Other | 49 | 1,312 | 1,838 | 26.7 | 714 | 61 |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | |
| Heating | 984 | 13,220 | 16,913 | 13.4 | 782 | 64 |
| Cooling | 1,085 | 17,390 | 23,164 | 16.0 | 751 | 67 |
| Lighting Equipment Types (more than one may apply) | | | | | | |
| Incandescent | 2,193 | 38,156 | 49,616 | 17.4 | 769 | 67 |
| Standard Fluorescent | 3,778 | 60,344 | 77,862 | 16.0 | 775 | 65 |
| Compact Fluorescent | 607 | 20,666 | 30,075 | 34.1 | 687 | 76 |
| High Intensity Discharge | 430 | 19,223 | 21,658 | 44.8 | 888 | 73 |
| Halogen | 572 | 17,926 | 25,668 | 31.3 | 698 | 73 |
| Other | 58 | 1,004 | 1,393 | 17.5 | 720 | 73 |
| Water Heating Equipment | | | | | | |
| Centralized System | 2,472 | 35,579 | 45,136 | 14.4 | 788 | 68 |
| Distributed System | 566 | 10,899 | 14,348 | 19.3 | 760 | 64 |
| Combination of Centralized and Distributed System | 200 | 9,637 | 13,902 | 48.1 | 693 | 84 |

Table B1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Mean Square Feet per Building (thousand) | Mean Square Feet per Worker | Mean Hours per Week |
|---|-----------------------------|---|--|---|-----------------------------------|------------------------|
| Personal Computers | | | | | | |
| None | 1,617 | 9,583 | 4,785 | 5.9 | 2,003 | 48 |
| 1 to 4 | 1,636 | 13,853 | 12,711 | 8.5 | 1,090 | 65 |
| 5 to 9 | 542 | 6,528 | 7,485 | 12.0 | 872 | 62 |
| 10 to 19 | 403 | 7,514 | 9,200 | 18.7 | 817 | 64 |
| 20 to 49 | 247 | 8,087 | 9,668 | 32.7 | 836 | 76 |
| 50 to 99 | 105 | 5,867 | 7,268 | 55.9 | 807 | 68 |
| 100 to 249 | 71 | 6,818 | 9,574 | 96.0 | 712 | 77 |
| 250 or More | 36 | 9,088 | 21,162 | 252.4 | 429 | 89 |
| Photocopiers | | | | | | |
| None | 2,825 | 21,631 | 18,897 | 7.7 | 1,145 | 57 |
| One | 1,114 | 12,928 | 12,963 | 11.6 | 997 | 62 |
| 2 to 4 | 540 | 15,620 | 16,785 | 28.9 | 931 | 68 |
| 5 to 9 | 102 | 5,384 | 8,217 | 52.6 | 655 | 68 |
| 10 or More | 75 | 11,774 | 24,991 | 156.7 | 471 | 79 |
| Other Electronic Equipment (more than one may apply) | | | | | | |
| Laser Printers | 1,949 | 46,567 | 66,979 | 23.9 | 695 | 66 |
| FAX Machines | 2,807 | 54,764 | 74,706 | 19.5 | 733 | 68 |
| Medical Diagnostic Equipment | 86 | 2,493 | 5,625 | 29.1 | 443 | 61 |
| Energy-Related Space Functions (more than one may apply) | | | | | | |
| Commercial Food Preparation | 767 | 23,328 | 30,350 | 30.4 | 769 | 82 |
| Activities with Large Amounts of Hot Water | 698 | 21,793 | 25,850 | 31.2 | 843 | 91 |
| Building Shell Conservation Features (more than one may apply) | | | | | | |
| Multipaned Windows | 2,130 | 38,193 | 49,935 | 17.9 | 765 | 64 |
| Tinted, Reflective, or Shading Glass | 1,283 | 29,915 | 43,137 | 23.3 | 694 | 65 |
| HVAC Conservation Features (more than one may apply) | | | | | | |
| Variable Air-Volume System | 550 | 19,387 | 30,546 | 35.3 | 635 | 75 |
| Economizer Cycle | 567 | 21,256 | 32,923 | 37.5 | 646 | 77 |
| HVAC Maintenance | 2,786 | 53,395 | 71,290 | 19.2 | 749 | 68 |
| Energy Management and Control System (EMCS) | 460 | 21,613 | 31,767 | 47.0 | 680 | 76 |
| Lighting Conservation Features (more than one may apply) | | | | | | |
| Specular Reflectors | 843 | 19,994 | 28,787 | 23.7 | 695 | 72 |
| Electronic Ballasts | 2,167 | 42,035 | 55,879 | 19.4 | 752 | 68 |
| Skylights or Atriums | 580 | 18,286 | 21,158 | 31.5 | 864 | 62 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | |
| Heating | 2,862 | 39,969 | 50,855 | 14.0 | 786 | 52 |
| Cooling | 2,622 | 39,161 | 52,130 | 14.9 | 751 | 55 |
| Lighting | 3,675 | 51,083 | 65,064 | 13.9 | 785 | 54 |
| Office Equipment | 184 | 9,063 | 12,473 | 49.2 | 727 | 56 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Median Square Feet per Building (thousand) | Median Square Feet per Worker | Median Hours per Week | Median Age of Buildings (years) |
|------------------------------------|-----------------------------|---|--|---|-------------------------------------|--------------------------|---------------------------------------|
| All Buildings | 4,657 | 67,338 | 81,852 | 5.0 | 909 | 50 | 30.5 |
| Building Floorspace | | | | | | | |
| (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 2,348 | 6,774 | 11,125 | 2.5 | 667 | 50 | 30.5 |
| 5,001 to 10,000 | 1,110 | 8,238 | 10,968 | 7.0 | 1,000 | 50 | 34.5 |
| 10,001 to 25,000 | 708 | 11,153 | 11,378 | 15.0 | 1,354 | 55 | 28.5 |
| 25,001 to 50,000 | 257 | 9,311 | 9,243 | 35.0 | 1,500 | 60 | 29.5 |
| 50,001 to 100,000 | 145 | 10,112 | 12,777 | 65.0 | 1,214 | 60 | 24.5 |
| 100,001 to 200,000 | 59 | 8,271 | 8,856 | 130.0 | 1,400 | 75 | 22.5 |
| 200,001 to 500,000 | 23 | 6,851 | 8,798 | 275.0 | 1,500 | 80 | 27.5 |
| Over 500,000 | 7 | 6,628 | 8,707 | 800.0 | 1,286 | 90 | 24.5 |
| Principal Building Activity | | | | | | | |
| Education | 327 | 8,651 | 8,927 | 8.0 | 1,000 | 45 | 35.5 |
| Food Sales | 174 | 994 | 980 | 2.5 | 833 | 112 | 19.5 |
| Food Service | 349 | 1,851 | 4,031 | 3.8 | 500 | 80 | 27.5 |
| Health Care | 127 | 2,918 | 6,219 | 5.0 | 501 | 50 | 23.5 |
| Inpatient | 11 | 1,865 | 3,350 | 65.0 | 563 | 168 | 36.5 |
| Outpatient | 116 | 1,053 | 2,869 | 4.5 | 501 | 45 | 22.5 |
| Lodging | 153 | 4,521 | 2,356 | 10.0 | 2,031 | 168 | 28.5 |
| Mercantile | 667 | 10,398 | 11,384 | 6.0 | 1,125 | 54 | 36.5 |
| Retail (Other Than Mall) | 534 | 4,766 | 4,668 | 4.0 | 1,250 | 53 | 40.5 |
| Enclosed and Strip Malls | 133 | 5,631 | 6,716 | 13.8 | 650 | 73 | 24.5 |
| Office | 739 | 12,044 | 28,969 | 4.5 | 500 | 45 | 24.5 |
| Public Assembly | 305 | 4,393 | 3,147 | 6.5 | 2,500 | 50 | 32.5 |
| Public Order and Safety | 72 | 1,168 | 1,702 | 10.0 | 425 | 20 | 24.5 |
| Religious Worship | 307 | 3,405 | 1,654 | 8.0 | 3,000 | 20 | 38.5 |
| Service | 478 | 3,388 | 4,554 | 4.3 | 1,111 | 50 | 31.5 |
| Warehouse and Storage | 603 | 10,477 | 6,216 | 6.0 | 1,417 | 48 | 24.5 |
| Other | 102 | 1,222 | 1,453 | 5.0 | 769 | 48 | 30.5 |
| Vacant | 253 | 1,908 | 261 | 4.5 | 1,583 | 70 | 49.5 |
| Year Constructed | | | | | | | |
| 1919 or Before | 419 | 4,034 | 3,911 | 4.5 | 1,250 | 48 | 99.5 |
| 1920 to 1945 | 499 | 6,445 | 5,925 | 4.8 | 1,161 | 50 | 67.5 |
| 1946 to 1959 | 763 | 9,127 | 9,832 | 5.5 | 944 | 48 | 46.5 |
| 1960 to 1969 | 665 | 10,866 | 12,886 | 5.0 | 758 | 55 | 35.5 |
| 1970 to 1979 | 774 | 11,840 | 15,842 | 5.0 | 875 | 51 | 24.5 |
| 1980 to 1989 | 846 | 13,931 | 19,828 | 5.5 | 833 | 50 | 14.5 |
| 1990 to 1999 | 690 | 11,094 | 13,628 | 4.8 | 708 | 50 | 6.5 |
| Floors | | | | | | | |
| One | 2,879 | 26,800 | 29,908 | 4.0 | 833 | 50 | 25.5 |
| Two | 1,168 | 16,985 | 18,749 | 6.0 | 1,000 | 54 | 35.5 |
| Three | 420 | 8,928 | 9,545 | 9.5 | 1,250 | 53 | 59.5 |
| Four to Nine | 178 | 10,180 | 15,069 | 17.5 | 1,000 | 60 | 63.5 |
| Ten or More | 11 | 4,445 | 8,582 | 225.0 | 563 | 70 | 30.5 |
| Census Region and Division | | | | | | | |
| Northeast | 686 | 12,360 | 14,407 | 6.0 | 813 | 54 | 39.5 |
| New England | 208 | 3,735 | 3,889 | 5.5 | 750 | 54 | 35.5 |
| Middle Atlantic | 479 | 8,625 | 10,518 | 6.5 | 833 | 53 | 40.5 |
| Midwest | 1,188 | 16,761 | 18,279 | 5.0 | 1,125 | 50 | 37.5 |
| East North Central | 782 | 11,205 | 11,668 | 5.5 | 1,125 | 50 | 43.5 |
| West North Central | 406 | 5,556 | 6,611 | 4.5 | 1,125 | 49 | 29.5 |
| South | 1,762 | 23,485 | 29,186 | 5.0 | 875 | 50 | 24.5 |
| South Atlantic | 748 | 11,001 | 14,051 | 5.5 | 700 | 50 | 24.5 |
| East South Central | 396 | 5,220 | 5,908 | 6.5 | 813 | 55 | 24.5 |
| West South Central | 618 | 7,264 | 9,226 | 4.0 | 1,167 | 50 | 23.5 |
| West | 1,021 | 14,731 | 19,981 | 5.0 | 750 | 50 | 29.5 |
| Mountain | 315 | 4,579 | 5,201 | 5.0 | 950 | 50 | 33.5 |
| Pacific | 705 | 10,152 | 14,780 | 5.0 | 735 | 50 | 29.5 |

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Median Square Feet per Building (thousand) | Median Square Feet per Worker | Median Hours per Week | Median Age of Buildings (years) |
|---|-----------------------------|---|--|---|-------------------------------------|--------------------------|---------------------------------------|
| Climate Zone: 45-Year Average | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | |
| More than 7,000 HDD | 525 | 5,890 | 5,857 | 4.3 | 900 | 50 | 34.5 |
| 5,500-7,000 HDD | 986 | 17,083 | 18,323 | 5.5 | 1,000 | 50 | 39.5 |
| 4,000-5,499 HDD | 1,085 | 16,243 | 22,136 | 5.5 | 944 | 50 | 32.5 |
| Fewer than 4,000 HDD | 1,134 | 16,333 | 21,145 | 5.0 | 750 | 50 | 27.5 |
| 2,000 CDD or More and -- | | | | | | | |
| Fewer than 4,000 HDD | 926 | 11,788 | 14,393 | 5.0 | 1,125 | 50 | 27.5 |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 2,376 | 14,321 | 4,240 | 3.5 | 1,625 | 49 | 35.5 |
| 5 to 9 | 807 | 6,325 | 5,313 | 4.5 | 667 | 50 | 28.5 |
| 10 to 19 | 683 | 8,028 | 8,588 | 6.5 | 550 | 51 | 27.5 |
| 20 to 49 | 487 | 10,814 | 14,098 | 12.5 | 469 | 58 | 24.5 |
| 50 to 99 | 174 | 8,898 | 11,427 | 35.0 | 542 | 65 | 25.5 |
| 100 to 249 | 90 | 8,356 | 12,617 | 65.0 | 433 | 56 | 26.5 |
| 250 or More | 39 | 10,595 | 25,569 | 150.0 | 333 | 72 | 21.5 |
| Weekly Operating Hours | | | | | | | |
| 39 or Fewer | 978 | 6,596 | 3,517 | 4.0 | 1,500 | 38 | 38.5 |
| 40 to 48 | 1,156 | 13,105 | 15,619 | 5.5 | 875 | 45 | 34.5 |
| 49 to 60 | 986 | 14,200 | 20,714 | 5.5 | 800 | 50 | 29.5 |
| 61 to 84 | 664 | 12,458 | 16,147 | 6.0 | 833 | 65 | 30.5 |
| 85 to 167 | 474 | 9,116 | 10,796 | 5.0 | 792 | 98 | 21.5 |
| Open Continuously | 398 | 11,863 | 15,060 | 6.0 | 1,023 | 168 | 27.5 |
| Ownership and Occupancy | | | | | | | |
| Nongovernment Owned | 4,135 | 54,994 | 67,787 | 5.0 | 917 | 50 | 30.5 |
| Owner Occupied | 2,801 | 37,785 | 46,555 | 5.0 | 938 | 50 | 29.5 |
| Nonowner Occupied | 1,099 | 15,596 | 21,233 | 5.0 | 889 | 50 | 30.5 |
| Unoccupied | 236 | 1,613 | 0 | 3.8 | 0 | 70 | 35.5 |
| Government Owned | 521 | 12,343 | 14,065 | 6.5 | 750 | 45 | 31.5 |
| Vacancy Status | | | | | | | |
| Completely Vacant | 140 | 953 | 0 | 4.0 | 0 | 76 | 47.5 |
| Mostly Vacant | 113 | 956 | 261 | 4.8 | 1,583 | 40 | 54.5 |
| Partially Vacant | 697 | 15,520 | 20,518 | 6.0 | 1,053 | 50 | 25.5 |
| Not At All Vacant | 3,707 | 49,910 | 61,073 | 5.0 | 857 | 50 | 29.5 |
| Number of Establishments | | | | | | | |
| One | 3,528 | 43,343 | 48,677 | 5.0 | 1,000 | 50 | 30.5 |
| 2 to 5 | 688 | 10,582 | 12,379 | 6.5 | 694 | 50 | 28.5 |
| 6 to 10 | 114 | 3,574 | 6,580 | 15.0 | 600 | 64 | 19.5 |
| 11 to 20 | 48 | 3,260 | 5,965 | 35.0 | 476 | 60 | 21.5 |
| More than 20 | 27 | 4,811 | 8,251 | 60.0 | 650 | 60 | 29.5 |
| Currently Unoccupied | 251 | 1,769 | 0 | 3.8 | 0 | 67 | 39.5 |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 4,395 | 65,716 | 81,768 | 5.0 | 889 | 50 | 29.5 |
| Natural Gas | 2,670 | 45,525 | 56,264 | 6.0 | 917 | 50 | 34.5 |
| Fuel Oil | 434 | 13,285 | 19,583 | 5.0 | 926 | 52 | 39.5 |
| District Heat | 117 | 5,891 | 8,654 | 15.0 | 1,375 | 80 | 35.5 |
| District Chilled Water | 50 | 2,750 | 4,637 | 18.7 | 1,375 | 84 | 27.5 |
| Propane | 451 | 6,290 | 6,349 | 6.0 | 1,000 | 55 | 26.5 |
| Wood | 79 | 570 | 578 | 4.5 | 1,500 | 60 | 29.5 |
| Coal | Q | Q | Q | 4.5 | 2,250 | 45 | 35.5 |
| Solar | Q | Q | Q | 6.0 | 385 | 53 | 23.5 |
| Other | 69 | 1,563 | 2,578 | 5.0 | 1,250 | 50 | 24.5 |

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Median Square Feet per Building (thousand) | Median Square Feet per Worker | Median Hours per Week | Median Age of Buildings (years) |
|--|-----------------------------|---|--|---|-------------------------------------|--------------------------|---------------------------------------|
| Space-Heating Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 1,880 | 32,291 | 43,236 | 5.0 | 750 | 50 | 25.5 |
| Natural Gas | 2,380 | 37,902 | 45,992 | 6.0 | 917 | 50 | 34.5 |
| Fuel Oil | 377 | 5,611 | 6,542 | 4.3 | 944 | 50 | 43.5 |
| District Heat | 96 | 5,534 | 8,116 | 18.7 | 1,500 | 70 | 40.5 |
| Propane | 307 | 2,728 | 2,428 | 5.0 | 1,333 | 49 | 21.5 |
| Wood | 66 | 377 | 338 | 3.8 | 1,500 | 60 | 28.5 |
| Coal | Q | Q | Q | 4.5 | 2,250 | 45 | 35.5 |
| Solar | Q | Q | Q | 42.5 | 390 | 45 | 31.5 |
| Other | 26 | 409 | 760 | 5.0 | 1,146 | 44 | 24.5 |
| Primary Space-Heating Energy Source | | | | | | | |
| Electricity | 1,128 | 17,627 | 25,423 | 5.0 | 677 | 50 | 21.5 |
| Natural Gas | 2,189 | 32,729 | 39,164 | 5.5 | 921 | 50 | 35.5 |
| Fuel Oil | 302 | 3,719 | 4,247 | 4.8 | 944 | 50 | 43.5 |
| District Heat | 77 | 5,077 | 7,008 | 25.0 | 1,900 | 90 | 42.5 |
| Propane | 282 | 2,107 | 1,907 | 5.0 | 1,250 | 48 | 20.5 |
| Wood | Q | Q | Q | 2.8 | 1,500 | 40 | 19.5 |
| Coal | Q | Q | Q | 37.5 | 938 | 40 | 40.5 |
| Solar | N | N | N | N | N | N | N |
| Other | Q | Q | Q | 12.5 | 1,250 | 44 | 24.5 |
| Cooling Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 3,450 | 55,545 | 72,764 | 5.5 | 833 | 50 | 28.5 |
| Natural Gas | 142 | 1,914 | 2,846 | 8.0 | 769 | 60 | 25.5 |
| District Chilled Water | 50 | 2,750 | 4,637 | 18.7 | 1,375 | 84 | 27.5 |
| Water-Heating Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 1,546 | 24,171 | 33,505 | 5.0 | 735 | 50 | 24.5 |
| Natural Gas | 1,520 | 29,196 | 35,930 | 7.0 | 938 | 60 | 32.5 |
| Fuel Oil | 110 | 2,218 | 2,905 | 4.8 | 531 | 75 | 43.5 |
| District Heat | 62 | 4,182 | 5,870 | 25.0 | 1,452 | 98 | 33.5 |
| Propane | 130 | 1,371 | 1,465 | 6.0 | 700 | 86 | 23.5 |
| Cooking Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 437 | 13,733 | 18,369 | 6.5 | 833 | 84 | 24.5 |
| Natural Gas | 505 | 16,785 | 21,352 | 7.0 | 750 | 70 | 31.5 |
| Propane | 118 | 1,754 | 2,187 | 3.8 | 583 | 86 | 24.5 |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 4,016 | 61,602 | 78,082 | 5.0 | 857 | 50 | 29.5 |
| Buildings with Cooling | 3,560 | 58,474 | 77,367 | 5.5 | 833 | 50 | 28.5 |
| Buildings with Water Heating | 3,239 | 56,115 | 73,385 | 6.0 | 813 | 54 | 29.5 |
| Buildings with Cooking | 857 | 24,681 | 31,603 | 6.5 | 803 | 75 | 28.5 |
| Buildings with Manufacturing | 151 | 3,126 | 4,351 | 8.0 | 1,111 | 45 | 29.5 |
| Buildings with Electricity Generation | 172 | 11,882 | 18,904 | 17.5 | 694 | 60 | 26.5 |
| Percent of Floorspace Heated | | | | | | | |
| Not Heated | 641 | 5,736 | 3,770 | 4.8 | 1,500 | 60 | 31.5 |
| 1 to 50 | 576 | 7,593 | 5,239 | 6.5 | 1,500 | 50 | 29.5 |
| 51 to 99 | 627 | 10,745 | 13,056 | 7.0 | 1,023 | 53 | 30.5 |
| 100 | 2,813 | 43,264 | 59,787 | 5.0 | 750 | 50 | 29.5 |

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Median Square Feet per Building (thousand) | Median Square Feet per Worker | Median Hours per Week | Median Age of Buildings (years) |
|---|-----------------------------|---|--|---|-------------------------------------|--------------------------|---------------------------------------|
| Percent of Floorspace Cooled | | | | | | | |
| Not Cooled | 1,097 | 8,864 | 4,485 | 4.0 | 1,500 | 48 | 39.5 |
| 1 to 50 | 1,012 | 16,846 | 14,146 | 7.5 | 1,143 | 50 | 36.5 |
| 51 to 99 | 751 | 16,966 | 23,833 | 7.0 | 1,000 | 56 | 30.5 |
| 100 | 1,796 | 24,662 | 39,388 | 4.5 | 650 | 50 | 23.5 |
| Percent Lit When Open | | | | | | | |
| Zero | 34 | 173 | Q | 2.0 | 500 | 91 | 16.5 |
| 1 to 50 | 835 | 9,187 | 4,917 | 6.0 | 1,833 | 48 | 40.5 |
| 51 to 99 | 1,228 | 20,665 | 28,668 | 6.5 | 780 | 50 | 31.5 |
| 100 | 2,096 | 34,233 | 47,951 | 4.8 | 750 | 50 | 24.5 |
| Building Never Open/ Electricity Not Used | 464 | 3,080 | 261 | 4.0 | 1,250 | 50 | 39.5 |
| Percent Lit When Closed | | | | | | | |
| Zero | 2,174 | 20,771 | 21,669 | 4.8 | 1,000 | 45 | 31.5 |
| 1 to 50 | 1,688 | 30,950 | 41,943 | 6.5 | 769 | 55 | 30.5 |
| 51 to 100 | 143 | 2,160 | 3,096 | 4.5 | 833 | 68 | 23.5 |
| Building Never Closed/ Electricity Not Used | 652 | 13,457 | 15,143 | 5.0 | 1,063 | 168 | 30.5 |
| Heating Equipment (more than one may apply) | | | | | | | |
| Heat Pumps | 492 | 8,923 | 12,616 | 5.0 | 625 | 50 | 21.5 |
| Furnaces | 1,460 | 14,449 | 15,845 | 5.0 | 1,000 | 48 | 36.5 |
| Individual Space Heaters | 894 | 17,349 | 19,140 | 6.0 | 1,196 | 50 | 32.5 |
| District Heat | 96 | 5,534 | 8,116 | 18.7 | 1,500 | 70 | 40.5 |
| Boilers | 581 | 19,522 | 24,374 | 10.0 | 1,053 | 55 | 40.5 |
| Packaged Heating Units | 1,347 | 25,743 | 32,224 | 6.0 | 750 | 52 | 24.5 |
| Other | 185 | 4,073 | 7,008 | 4.5 | 1,000 | 52 | 28.5 |
| Cooling Equipment (more than one may apply) | | | | | | | |
| Residential-Type Central | | | | | | | |
| Air Conditioners | 676 | 8,329 | 10,136 | 5.5 | 1,125 | 50 | 28.5 |
| Heat Pumps | 485 | 9,147 | 13,463 | 5.0 | 648 | 50 | 23.5 |
| Individual Air Conditioners | 799 | 14,276 | 16,652 | 6.0 | 833 | 50 | 40.5 |
| District Chilled Water | 50 | 2,750 | 4,637 | 18.7 | 1,375 | 84 | 27.5 |
| Central Chillers | 130 | 12,909 | 21,586 | 40.0 | 938 | 56 | 27.5 |
| Packaged Air Conditioning | | | | | | | |
| Units | 1,953 | 36,527 | 48,283 | 6.0 | 750 | 53 | 26.5 |
| Swamp Coolers | 136 | 2,219 | 2,425 | 4.8 | 1,167 | 62 | 37.5 |
| Other | 49 | 1,312 | 1,838 | 7.0 | 1,250 | 55 | 21.5 |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | |
| Heating | 984 | 13,220 | 16,913 | 5.5 | 800 | 50 | 33.5 |
| Cooling | 1,085 | 17,390 | 23,164 | 6.0 | 833 | 53 | 31.5 |
| Lighting Equipment Types (more than one may apply) | | | | | | | |
| Incandescent | 2,193 | 38,156 | 49,616 | 6.0 | 950 | 50 | 32.5 |
| Standard Fluorescent | 3,778 | 60,344 | 77,862 | 5.5 | 850 | 50 | 29.5 |
| Compact Fluorescent | 607 | 20,666 | 30,075 | 8.5 | 833 | 60 | 27.5 |
| High Intensity Discharge | 430 | 19,223 | 21,658 | 13.8 | 1,286 | 55 | 24.5 |
| Halogen | 572 | 17,926 | 25,668 | 8.0 | 813 | 56 | 27.5 |
| Other | 58 | 1,004 | 1,393 | 4.0 | 500 | 64 | 23.5 |
| Water Heating Equipment | | | | | | | |
| Centralized System | 2,472 | 35,579 | 45,136 | 5.5 | 857 | 54 | 30.5 |
| Distributed System | 566 | 10,899 | 14,348 | 6.0 | 667 | 50 | 26.5 |
| Combination of Centralized and Distributed System | 200 | 9,637 | 13,902 | 15.0 | 833 | 62 | 24.5 |

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1999

| | All Buildings (thousand) | Total Floorspace (million square feet) | Total Workers in All Buildings (thousand) | Median Square Feet per Building (thousand) | Median Square Feet per Worker | Median Hours per Week | Median Age of Buildings (years) |
|---|-----------------------------|---|--|---|-------------------------------------|--------------------------|---------------------------------------|
| Personal Computers | | | | | | | |
| None | 1,617 | 9,583 | 4,785 | 3.8 | 1,500 | 50 | 35.5 |
| 1 to 4 | 1,636 | 13,853 | 12,711 | 4.8 | 1,000 | 52 | 34.5 |
| 5 to 9 | 542 | 6,528 | 7,485 | 5.0 | 571 | 50 | 23.5 |
| 10 to 19 | 403 | 7,514 | 9,200 | 9.0 | 563 | 50 | 19.5 |
| 20 to 49 | 247 | 8,087 | 9,668 | 16.2 | 600 | 50 | 28.5 |
| 50 to 99 | 105 | 5,867 | 7,268 | 35.0 | 707 | 50 | 23.5 |
| 100 to 249 | 71 | 6,818 | 9,574 | 65.0 | 606 | 60 | 25.5 |
| 250 or More | 36 | 9,088 | 21,162 | 150.0 | 389 | 72 | 25.5 |
| Photocopiers | | | | | | | |
| None | 2,825 | 21,631 | 18,897 | 4.0 | 1,143 | 50 | 34.5 |
| One | 1,114 | 12,928 | 12,963 | 6.0 | 818 | 50 | 28.5 |
| 2 to 4 | 540 | 15,620 | 16,785 | 12.5 | 650 | 50 | 25.5 |
| 5 to 9 | 102 | 5,384 | 8,217 | 23.7 | 432 | 52 | 15.5 |
| 10 or More | 75 | 11,774 | 24,991 | 75.0 | 429 | 60 | 21.5 |
| Other Electronic Equipment (more than one may apply) | | | | | | | |
| Laser Printers | 1,949 | 46,567 | 66,979 | 7.5 | 667 | 50 | 27.5 |
| FAX Machines | 2,807 | 54,764 | 74,706 | 6.0 | 750 | 50 | 27.5 |
| Medical Diagnostic Equipment | 86 | 2,493 | 5,625 | 5.0 | 500 | 48 | 22.5 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | |
| Commercial Food Preparation | 767 | 23,328 | 30,350 | 6.5 | 750 | 77 | 28.5 |
| Activities with Large Amounts of Hot Water | 698 | 21,793 | 25,850 | 9.5 | 921 | 77 | 29.5 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | |
| Multipaned Windows | 2,130 | 38,193 | 49,935 | 6.0 | 833 | 50 | 26.5 |
| Tinted, Reflective, or Shading Glass | 1,283 | 29,915 | 43,137 | 6.5 | 800 | 50 | 24.5 |
| HVAC Conservation Features (more than one may apply) | | | | | | | |
| Variable Air-Volume System | 550 | 19,387 | 30,546 | 9.0 | 804 | 61 | 22.5 |
| Economizer Cycle | 567 | 21,256 | 32,923 | 8.5 | 667 | 60 | 23.5 |
| HVAC Maintenance | 2,786 | 53,395 | 71,290 | 6.0 | 833 | 52 | 28.5 |
| Energy Management and Control System (EMCS) | 460 | 21,613 | 31,767 | 13.8 | 846 | 56 | 28.5 |
| Lighting Conservation Features (more than one may apply) | | | | | | | |
| Specular Reflectors | 843 | 19,994 | 28,787 | 6.0 | 750 | 54 | 26.5 |
| Electronic Ballasts | 2,167 | 42,035 | 55,879 | 6.0 | 857 | 54 | 28.5 |
| Skylights or Atriums | 580 | 18,286 | 21,158 | 8.5 | 833 | 50 | 23.5 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | |
| Heating | 2,862 | 39,969 | 50,855 | 5.5 | 833 | 49 | 30.5 |
| Cooling | 2,622 | 39,161 | 52,130 | 5.5 | 792 | 50 | 29.5 |
| Lighting | 3,675 | 51,083 | 65,064 | 5.0 | 875 | 50 | 29.5 |
| Office Equipment | 184 | 9,063 | 12,473 | 27.5 | 667 | 50 | 30.5 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B3. Census Region, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|------------|---------|-------|-------|--|------------|---------|--------|--------|
| | All Buildings | North-east | Midwest | South | West | All Buildings | North-east | Midwest | South | West |
| All Buildings | 4,657 | 686 | 1,188 | 1,762 | 1,021 | 67,338 | 12,360 | 16,761 | 23,485 | 14,731 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 305 | 620 | 916 | 506 | 6,774 | 901 | 1,835 | 2,536 | 1,503 |
| 5,001 to 10,000 | 1,110 | 169 | 273 | 413 | 255 | 8,238 | 1,302 | 2,045 | 3,058 | 1,834 |
| 10,001 to 25,000 | 708 | 130 | 188 | 260 | 130 | 11,153 | 1,954 | 2,881 | 4,194 | 2,124 |
| 25,001 to 50,000 | 257 | 39 | 48 | 93 | 76 | 9,311 | 1,407 | 1,773 | 3,384 | 2,746 |
| 50,001 to 100,000 | 145 | 26 | 35 | 49 | 35 | 10,112 | 1,771 | 2,436 | 3,450 | 2,455 |
| 100,001 to 200,000 | 59 | 10 | 16 | 20 | 13 | 8,271 | 1,461 | 2,279 | 2,864 | 1,666 |
| 200,001 to 500,000 | 23 | 5 | 7 | 8 | 4 | 6,851 | 1,362 | 1,993 | 2,273 | 1,222 |
| Over 500,000 | 7 | 2 | 2 | 2 | 1 | 6,628 | 2,202 | 1,519 | 1,726 | 1,180 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 31 | 42 | 121 | 134 | 8,651 | 1,714 | 2,250 | 2,348 | 2,338 |
| Food Sales | 174 | Q | Q | 76 | 29 | 994 | Q | Q | 392 | 208 |
| Food Service | 349 | Q | 95 | 124 | 89 | 1,851 | Q | 558 | 676 | 396 |
| Health Care | 127 | 14 | 33 | 59 | 21 | 2,918 | 448 | 750 | 1,085 | 635 |
| Inpatient | 11 | Q | 1 | 3 | 3 | 1,865 | 377 | 512 | 630 | 346 |
| Outpatient | 116 | Q | 32 | 56 | 18 | 1,053 | Q | 239 | 454 | 289 |
| Lodging | 153 | 13 | 27 | 54 | 59 | 4,521 | 484 | 940 | 1,595 | 1,501 |
| Mercantile | 667 | 117 | 182 | 257 | 111 | 10,398 | 1,885 | 2,591 | 4,080 | 1,842 |
| Retail (Other Than Mall) | 534 | 100 | 157 | 205 | 71 | 4,766 | 974 | 1,600 | 1,566 | 627 |
| Enclosed and Strip Malls | 133 | 17 | 25 | 52 | 40 | 5,631 | 912 | 991 | 2,513 | 1,215 |
| Office | 739 | 102 | 172 | 315 | 150 | 12,044 | 2,389 | 2,820 | 4,162 | 2,672 |
| Public Assembly | 305 | 43 | 88 | 126 | 48 | 4,393 | 882 | 1,142 | 1,511 | 859 |
| Public Order and Safety | 72 | 31 | 13 | 17 | Q | 1,168 | 530 | 216 | 286 | Q |
| Religious Worship | 307 | 38 | 74 | 101 | 93 | 3,405 | 440 | 923 | 1,146 | 896 |
| Service | 478 | 73 | 140 | 198 | 68 | 3,388 | 740 | 818 | 1,387 | 443 |
| Warehouse and Storage | 603 | 84 | 192 | 215 | 113 | 10,477 | 1,743 | 2,764 | 3,957 | 2,012 |
| Other | 102 | Q | Q | 39 | 29 | 1,222 | Q | 283 | 305 | 338 |
| Vacant | 253 | 33 | 91 | 61 | 68 | 1,908 | 367 | 533 | 554 | 455 |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 126 | 172 | 69 | 52 | 4,034 | 1,392 | 1,576 | 549 | 518 |
| 1920 to 1945 | 499 | 65 | 206 | 155 | 73 | 6,445 | 1,619 | 2,423 | 1,704 | 699 |
| 1946 to 1959 | 763 | 138 | 174 | 289 | 162 | 9,127 | 2,030 | 2,152 | 2,910 | 2,035 |
| 1960 to 1969 | 665 | 97 | 155 | 199 | 215 | 10,866 | 2,050 | 2,602 | 3,318 | 2,896 |
| 1970 to 1979 | 774 | 77 | 141 | 338 | 219 | 11,840 | 1,823 | 2,347 | 4,278 | 3,391 |
| 1980 to 1989 | 846 | 122 | 165 | 408 | 151 | 13,931 | 2,070 | 2,828 | 6,263 | 2,771 |
| 1990 to 1999 | 690 | 62 | 175 | 304 | 149 | 11,094 | 1,376 | 2,834 | 4,464 | 2,420 |
| Floors | | | | | | | | | | |
| One | 2,879 | 291 | 624 | 1,302 | 662 | 26,800 | 3,131 | 5,800 | 11,826 | 6,044 |
| Two | 1,168 | 230 | 331 | 346 | 262 | 16,985 | 2,944 | 4,405 | 5,687 | 3,948 |
| Three | 420 | 108 | 172 | 76 | 64 | 8,928 | 2,261 | 2,725 | 2,106 | 1,836 |
| Four to Nine | 178 | 54 | 60 | 33 | 30 | 10,180 | 2,598 | 3,080 | 2,540 | 1,962 |
| Ten or More | 11 | 3 | 2 | 4 | 2 | 4,445 | 1,426 | 752 | 1,327 | 940 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 271 | 668 | 970 | 468 | 14,321 | 1,906 | 4,033 | 5,579 | 2,802 |
| 5 to 9 | 807 | 163 | 224 | 220 | 199 | 6,325 | 1,372 | 1,689 | 1,730 | 1,533 |
| 10 to 19 | 683 | 114 | 136 | 273 | 160 | 8,028 | 1,472 | 1,930 | 2,935 | 1,690 |
| 20 to 49 | 487 | 87 | 95 | 204 | 101 | 10,814 | 1,574 | 2,575 | 4,174 | 2,492 |
| 50 to 99 | 174 | 30 | 32 | 51 | 61 | 8,898 | 1,814 | 1,876 | 2,876 | 2,332 |
| 100 to 249 | 90 | 16 | 24 | 32 | 19 | 8,356 | 1,702 | 2,228 | 2,856 | 1,570 |
| 250 or More | 39 | 5 | 9 | 12 | 12 | 10,595 | 2,519 | 2,430 | 3,335 | 2,312 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 115 | 286 | 380 | 196 | 6,596 | 900 | 1,851 | 2,532 | 1,313 |
| 40 to 48 | 1,156 | 156 | 280 | 486 | 235 | 13,105 | 1,879 | 2,989 | 5,265 | 2,972 |
| 49 to 60 | 986 | 135 | 250 | 346 | 255 | 14,200 | 2,792 | 3,577 | 4,617 | 3,214 |
| 61 to 84 | 664 | 130 | 184 | 207 | 143 | 12,458 | 2,482 | 3,088 | 4,198 | 2,689 |
| 85 to 167 | 474 | 65 | 102 | 211 | 96 | 9,116 | 1,813 | 2,531 | 2,978 | 1,794 |
| Open Continuously | 398 | 86 | 86 | 132 | 95 | 11,863 | 2,494 | 2,725 | 3,896 | 2,748 |

Table B3. Census Region, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|------------|---------|-------|------|--|------------|---------|--------|--------|
| | All Buildings | North-east | Midwest | South | West | All Buildings | North-east | Midwest | South | West |
| Ownership and Occupancy | | | | | | | | | | |
| Nongovernment Owned | 4,135 | 607 | 1,105 | 1,585 | 839 | 54,994 | 9,542 | 13,896 | 19,745 | 11,810 |
| Owner Occupied | 2,801 | 455 | 747 | 1,083 | 516 | 37,785 | 7,143 | 9,990 | 13,228 | 7,424 |
| Nonowner Occupied | 1,099 | 142 | 256 | 431 | 270 | 15,596 | 2,286 | 3,427 | 5,881 | 4,001 |
| Unoccupied | 236 | Q | 102 | 71 | 53 | 1,613 | Q | 479 | 636 | 385 |
| Government Owned | 521 | 80 | 83 | 177 | 182 | 12,343 | 2,818 | 2,865 | 3,740 | 2,921 |
| Vacancy Status | | | | | | | | | | |
| Completely Vacant | 140 | Q | 57 | Q | 36 | 953 | Q | 298 | Q | 287 |
| Mostly Vacant | 113 | Q | 34 | Q | Q | 956 | Q | 235 | Q | Q |
| Partially Vacant | 697 | 78 | 189 | 266 | 165 | 15,520 | 2,693 | 4,031 | 5,548 | 3,248 |
| Not At All Vacant | 3,707 | 576 | 908 | 1,436 | 787 | 49,910 | 9,301 | 12,197 | 17,383 | 11,029 |
| Number of Establishments | | | | | | | | | | |
| One | 3,528 | 531 | 860 | 1,392 | 745 | 43,343 | 7,665 | 11,299 | 14,723 | 9,655 |
| 2 to 5 | 688 | 113 | 190 | 231 | 154 | 10,582 | 2,186 | 2,900 | 3,421 | 2,075 |
| 6 to 10 | 114 | 15 | 22 | 41 | 36 | 3,574 | 494 | 571 | 1,440 | 1,068 |
| 11 to 20 | 48 | 8 | 7 | 17 | 16 | 3,260 | 705 | 579 | 1,239 | 738 |
| More than 20 | 27 | 4 | 4 | 9 | Q | 4,811 | 1,159 | 864 | 2,000 | 788 |
| Currently Unoccupied | 251 | Q | 103 | 72 | 60 | 1,769 | Q | 548 | 662 | 407 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 639 | 1,113 | 1,689 | 954 | 65,716 | 11,964 | 16,389 | 23,076 | 14,287 |
| Natural Gas | 2,670 | 311 | 874 | 820 | 665 | 45,525 | 7,305 | 13,506 | 14,199 | 10,515 |
| Fuel Oil | 434 | 218 | 48 | 138 | 30 | 13,285 | 5,414 | 2,423 | 3,749 | 1,699 |
| District Heat | 117 | 31 | 25 | 39 | 22 | 5,891 | 1,898 | 1,521 | 1,265 | 1,207 |
| District Chilled Water | 50 | 2 | 14 | Q | 13 | 2,750 | 326 | 746 | 939 | 739 |
| Propane | 451 | 112 | 109 | 167 | 62 | 6,290 | 1,706 | 1,405 | 2,389 | 790 |
| Other | 153 | 21 | 37 | 64 | Q | 2,322 | 580 | 606 | 579 | 557 |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 601 | 1,049 | 1,503 | 863 | 61,602 | 11,667 | 15,916 | 20,598 | 13,421 |
| Buildings with Cooling | 3,560 | 473 | 861 | 1,506 | 720 | 58,474 | 10,311 | 14,371 | 21,549 | 12,243 |
| Buildings with Water Heating | 3,239 | 515 | 776 | 1,179 | 769 | 56,115 | 10,577 | 13,702 | 19,014 | 12,822 |
| Buildings with Cooking | 857 | 141 | 221 | 315 | 181 | 24,681 | 5,245 | 6,042 | 8,569 | 4,825 |
| Buildings with Manufacturing | 151 | 22 | 18 | 87 | 24 | 3,126 | 568 | 818 | 1,035 | 706 |
| Buildings with Electricity Generation | 172 | 46 | 39 | 64 | 22 | 11,882 | 3,108 | 2,782 | 4,062 | 1,930 |
| Percent of Floorspace Heated | | | | | | | | | | |
| Not Heated | 641 | 86 | 138 | 259 | 158 | 5,736 | 693 | 846 | 2,887 | 1,310 |
| 1 to 50 | 576 | 83 | 151 | 182 | 160 | 7,593 | 1,053 | 1,571 | 2,538 | 2,432 |
| 51 to 99 | 627 | 82 | 175 | 254 | 117 | 10,745 | 1,688 | 2,323 | 4,335 | 2,399 |
| 100 | 2,813 | 436 | 724 | 1,067 | 586 | 43,264 | 8,927 | 12,022 | 13,725 | 8,590 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 1,097 | 213 | 327 | 256 | 301 | 8,864 | 2,049 | 2,390 | 1,936 | 2,489 |
| 1 to 50 | 1,012 | 226 | 330 | 289 | 167 | 16,846 | 3,914 | 5,068 | 4,618 | 3,246 |
| 51 to 99 | 751 | 80 | 207 | 320 | 144 | 16,966 | 3,196 | 4,741 | 5,801 | 3,229 |
| 100 | 1,796 | 168 | 324 | 896 | 409 | 24,662 | 3,202 | 4,562 | 11,130 | 5,768 |
| Percent Lit When Open | | | | | | | | | | |
| Zero | 34 | Q | Q | Q | Q | 173 | Q | Q | Q | Q |
| 1 to 50 | 835 | 123 | 273 | 275 | 164 | 9,187 | 1,620 | 2,486 | 3,013 | 2,068 |
| 51 to 99 | 1,228 | 194 | 337 | 453 | 245 | 20,665 | 4,081 | 5,814 | 6,392 | 4,378 |
| 100 | 2,096 | 291 | 422 | 862 | 522 | 34,233 | 6,077 | 7,668 | 12,817 | 7,671 |
| Building Never Open/ Electricity Not Used | 464 | 67 | 154 | 154 | 89 | 3,080 | 555 | 780 | 1,162 | 582 |

Table B3. Census Region, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|---|--------------------------------|------------|---------|-------|------|--|------------|---------|--------|--------|
| | All Buildings | North-east | Midwest | South | West | All Buildings | North-east | Midwest | South | West |
| Heating Equipment (more than one may apply) | | | | | | | | | | |
| Heat Pumps | 492 | 24 | 28 | 338 | 102 | 8,923 | 1,193 | 1,015 | 4,580 | 2,135 |
| Furnaces | 1,460 | 222 | 632 | 369 | 237 | 14,449 | 2,257 | 5,767 | 3,949 | 2,476 |
| Individual Space Heaters | 894 | 119 | 205 | 370 | 200 | 17,349 | 3,555 | 4,667 | 5,471 | 3,657 |
| District Heat | 96 | 31 | 22 | 27 | 17 | 5,534 | 1,876 | 1,514 | 1,022 | 1,121 |
| Boilers | 581 | 189 | 175 | 123 | 93 | 19,522 | 5,469 | 5,961 | 4,209 | 3,883 |
| Packaged Heating Units | 1,347 | 135 | 201 | 645 | 366 | 25,743 | 4,033 | 5,081 | 10,455 | 6,175 |
| Other | 185 | 22 | 52 | 62 | 49 | 4,073 | 769 | 1,113 | 1,391 | 800 |
| Cooling Equipment (more than one may apply) | | | | | | | | | | |
| Residential-Type Central | | | | | | | | | | |
| Air Conditioners | 676 | 72 | 285 | 258 | 62 | 8,329 | 950 | 2,951 | 3,272 | 1,156 |
| Heat Pumps | 485 | 19 | 27 | 329 | 110 | 9,147 | 1,215 | 1,063 | 4,604 | 2,265 |
| Individual Air Conditioners | 799 | 172 | 214 | 312 | 100 | 14,276 | 3,897 | 3,724 | 4,526 | 2,130 |
| District Chilled Water | 50 | 2 | 14 | Q | 13 | 2,750 | 326 | 746 | 939 | 739 |
| Central Chillers | 130 | 17 | 25 | 57 | 31 | 12,909 | 2,782 | 3,149 | 4,328 | 2,651 |
| Packaged Air Conditioning | | | | | | | | | | |
| Units | 1,953 | 265 | 403 | 841 | 443 | 36,527 | 6,641 | 8,198 | 13,915 | 7,773 |
| Swamp Coolers | 136 | Q | Q | Q | 109 | 2,219 | Q | Q | 339 | 1,624 |
| Other | 49 | Q | Q | Q | Q | 1,312 | Q | 328 | 343 | 324 |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | | |
| Heating | 984 | 134 | 266 | 371 | 213 | 13,220 | 1,829 | 3,244 | 5,080 | 3,068 |
| Cooling | 1,085 | 151 | 231 | 495 | 208 | 17,390 | 3,080 | 3,808 | 7,088 | 3,414 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | |
| Multipaned Windows | | | | | | | | | | |
| Tinted, Reflective, or Shading Glass | 2,130 | 342 | 698 | 694 | 395 | 38,193 | 7,564 | 11,546 | 11,981 | 7,103 |
| Shading Glass | 1,283 | 127 | 264 | 509 | 383 | 29,915 | 4,525 | 6,364 | 11,246 | 7,780 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | |
| Variable Air-Volume System | 550 | 93 | 129 | 194 | 133 | 19,387 | 3,643 | 4,858 | 6,121 | 4,765 |
| Economizer Cycle | 567 | 118 | 130 | 135 | 184 | 21,256 | 4,634 | 5,688 | 5,858 | 5,075 |
| HVAC Maintenance | 2,786 | 498 | 675 | 1,000 | 613 | 53,395 | 10,640 | 13,025 | 17,981 | 11,749 |
| Energy Management and Control System (EMCS) | 460 | 81 | 107 | 138 | 135 | 21,613 | 4,211 | 5,296 | 7,108 | 4,998 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | | |
| Specular Reflectors | 843 | 148 | 155 | 317 | 224 | 19,994 | 4,874 | 4,296 | 6,400 | 4,424 |
| Electronic Ballasts | 2,167 | 370 | 482 | 802 | 514 | 42,035 | 8,480 | 10,287 | 13,745 | 9,523 |
| Skylights or Atriums | 580 | 89 | 130 | 203 | 158 | 18,286 | 3,697 | 4,491 | 6,116 | 3,982 |

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

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B4. Census Region and Division, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | | |
|--|--------------------------------|-------------|-----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------|
| | All Buildings | Northeast | | Midwest | | South | | | West | |
| | | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Mountain | Pacific |
| All Buildings | 4,657 | 208 | 479 | 782 | 406 | 748 | 396 | 618 | 315 | 705 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 99 | 206 | 390 | 230 | 368 | 189 | 360 | 155 | 351 |
| 5,001 to 10,000 | 1,110 | 41 | 128 | 200 | 72 | 194 | 80 | 139 | 80 | 175 |
| 10,001 to 25,000 | 708 | 38 | 92 | 122 | 66 | 105 | 87 | 69 | 39 | 91 |
| 25,001 to 50,000 | 257 | 14 | 25 | 32 | 17 | 43 | 25 | 25 | 25 | 52 |
| 50,001 to 100,000 | 145 | 10 | 16 | 22 | 13 | 24 | 9 | 16 | 12 | 23 |
| 100,001 to 200,000 | 59 | 3 | 7 | 11 | 5 | 11 | 4 | 6 | 4 | 8 |
| 200,001 to 500,000 | 23 | 1 | 4 | 5 | 2 | 4 | 1 | 2 | Q | 3 |
| Over 500,000 | 7 | Q | 2 | 1 | 1 | 1 | Q | 1 | Q | 1 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 8 | 23 | 23 | 18 | 52 | 22 | 48 | 21 | 113 |
| Food Sales | 174 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Food Service | 349 | Q | Q | 78 | Q | 41 | Q | 61 | Q | 65 |
| Health Care | 127 | Q | 11 | 25 | Q | 37 | Q | 21 | 4 | 16 |
| Inpatient | 11 | Q | Q | 1 | Q | 1 | Q | 2 | Q | 2 |
| Outpatient | 116 | Q | Q | Q | Q | 35 | Q | Q | Q | 15 |
| Lodging | 153 | Q | 10 | 15 | 12 | 22 | 20 | 12 | 19 | 41 |
| Mercantile | 667 | Q | 92 | 127 | 55 | 107 | 55 | 95 | 34 | 77 |
| Retail (Other Than Mall) | 534 | Q | 78 | 107 | 50 | 77 | 44 | 84 | 29 | 42 |
| Enclosed and Strip Malls | 133 | Q | 14 | 19 | 5 | 29 | Q | 12 | Q | 35 |
| Office | 739 | 47 | 55 | 117 | 56 | 163 | 77 | 75 | 43 | 107 |
| Public Assembly | 305 | Q | 33 | 50 | 39 | 52 | 36 | 38 | Q | 29 |
| Public Order and Safety | 72 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Religious Worship | 307 | Q | 29 | 43 | 32 | 23 | Q | 49 | Q | 62 |
| Service | 478 | Q | 53 | 68 | 72 | 72 | 37 | 89 | 18 | 49 |
| Warehouse and Storage | 603 | 31 | 53 | 122 | 70 | 114 | 50 | 50 | 37 | 76 |
| Other | 102 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Vacant | 253 | Q | Q | 75 | Q | Q | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 35 | 91 | 140 | 32 | 31 | Q | 32 | Q | Q |
| 1920 to 1945 | 499 | 28 | 37 | 147 | 59 | 58 | 45 | 51 | 35 | 38 |
| 1946 to 1959 | 763 | 24 | 114 | 123 | 51 | 123 | 65 | 102 | 52 | 110 |
| 1960 to 1969 | 665 | 33 | 64 | 97 | 57 | 85 | 38 | 76 | 66 | 149 |
| 1970 to 1979 | 774 | 38 | 39 | 95 | 46 | 117 | 65 | 156 | 45 | 173 |
| 1980 to 1989 | 846 | 34 | 88 | 73 | 92 | 152 | 120 | 136 | 61 | 90 |
| 1990 to 1999 | 690 | Q | 47 | 107 | 68 | 183 | Q | 65 | 36 | 113 |
| Floors | | | | | | | | | | |
| One | 2,879 | 83 | 208 | 384 | 240 | 525 | 259 | 517 | 208 | 455 |
| Two | 1,168 | 86 | 143 | 214 | 117 | 159 | 110 | 77 | 74 | 188 |
| Three | 420 | 23 | 85 | 141 | 31 | 36 | Q | 18 | 23 | 41 |
| Four to Nine | 178 | 15 | 40 | 42 | 18 | 25 | Q | 4 | 11 | 19 |
| Ten or More | 11 | Q | 3 | 1 | Q | 3 | Q | 1 | Q | 2 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 81 | 189 | 440 | 228 | 380 | 193 | 397 | 172 | 295 |
| 5 to 9 | 807 | 52 | 111 | 144 | 80 | 92 | 54 | 75 | 48 | 151 |
| 10 to 19 | 683 | 40 | 74 | 90 | 45 | 151 | 68 | 54 | 43 | 117 |
| 20 to 49 | 487 | 18 | 68 | 68 | 27 | 78 | 65 | 61 | 27 | 74 |
| 50 to 99 | 174 | 9 | 21 | 16 | 15 | 26 | 10 | 15 | 14 | 47 |
| 100 to 249 | 90 | 6 | 10 | 18 | 6 | 15 | 5 | 12 | 7 | 12 |
| 250 or More | 39 | 1 | 4 | 5 | 4 | 7 | 2 | 4 | 3 | 9 |

Table B4. Census Region and Division, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | | |
|--|--------------------------------|-------------|-----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------|
| | All Buildings | Northeast | | Midwest | | South | | | West | |
| | | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Mountain | Pacific |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | Q | 72 | 193 | 93 | 161 | 85 | 135 | 90 | 106 |
| 40 to 48 | 1,156 | 45 | 111 | 168 | 112 | 203 | 108 | 174 | 85 | 150 |
| 49 to 60 | 986 | 52 | 82 | 167 | 83 | 164 | 55 | 128 | 54 | 202 |
| 61 to 84 | 664 | 35 | 95 | 123 | 61 | 95 | 44 | 69 | 22 | 121 |
| 85 to 167 | 474 | 13 | 52 | 80 | 22 | 76 | 60 | 75 | 35 | 61 |
| Open Continuously | 398 | 20 | 66 | 51 | 35 | 49 | 45 | 38 | 30 | 65 |
| Ownership and Occupancy | | | | | | | | | | |
| Nongovernment Owned | 4,135 | 181 | 426 | 752 | 353 | 671 | 360 | 554 | 284 | 555 |
| Owner Occupied | 2,801 | 123 | 331 | 522 | 225 | 478 | 241 | 363 | 153 | 363 |
| Nonowner Occupied | 1,099 | 56 | 87 | 169 | 87 | 151 | 112 | 168 | 92 | 178 |
| Unoccupied | 236 | Q | Q | 61 | Q | Q | Q | Q | Q | Q |
| Government Owned | 521 | 27 | 52 | 30 | 52 | 77 | 36 | 64 | 31 | 150 |
| Vacancy Status | | | | | | | | | | |
| Completely Vacant | 140 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Mostly Vacant | 113 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Partially Vacant | 697 | 32 | 46 | 124 | 65 | 119 | 54 | 93 | 40 | 125 |
| Not At All Vacant | 3,707 | 165 | 411 | 583 | 325 | 599 | 336 | 501 | 233 | 555 |
| Number of Establishments | | | | | | | | | | |
| One | 3,528 | 169 | 362 | 570 | 291 | 563 | 328 | 501 | 213 | 532 |
| 2 to 5 | 688 | 22 | 90 | 133 | 58 | 109 | 42 | 80 | 40 | 114 |
| 6 to 10 | 114 | Q | 12 | 11 | Q | 19 | Q | 6 | 6 | 30 |
| 11 to 20 | 48 | 4 | 3 | 3 | 4 | 10 | Q | 4 | Q | 13 |
| More than 20 | 27 | Q | Q | 3 | Q | 6 | Q | 3 | Q | 3 |
| Currently Unoccupied | 251 | Q | Q | 61 | Q | Q | Q | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 190 | 449 | 730 | 383 | 711 | 383 | 595 | 275 | 679 |
| Natural Gas | 2,670 | 45 | 266 | 611 | 263 | 231 | 224 | 365 | 230 | 435 |
| Fuel Oil | 434 | 90 | 128 | 28 | 20 | 98 | 12 | 28 | Q | Q |
| District Heat | 117 | 2 | 29 | 11 | Q | Q | Q | 21 | 9 | 13 |
| District Chilled Water | 50 | Q | 2 | 2 | Q | 3 | Q | Q | Q | 7 |
| Propane | 451 | 62 | 51 | 63 | 46 | 87 | Q | 30 | Q | Q |
| Other | 153 | Q | 20 | 23 | Q | Q | Q | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 170 | 431 | 688 | 361 | 612 | 366 | 524 | 271 | 592 |
| Buildings with Cooling | 3,560 | 136 | 337 | 563 | 298 | 631 | 353 | 522 | 239 | 481 |
| Buildings with Water Heating | 3,239 | 151 | 364 | 515 | 261 | 492 | 283 | 404 | 244 | 525 |
| Buildings with Cooking | 857 | 36 | 106 | 162 | 59 | 134 | 79 | 101 | 57 | 124 |
| Buildings with Manufacturing | 151 | Q | Q | Q | Q | 30 | Q | 37 | Q | 19 |
| Buildings with Electricity Generation | 172 | 8 | 38 | 27 | 13 | 44 | 6 | 14 | 11 | 11 |
| Percent of Floorspace Heated | | | | | | | | | | |
| Not Heated | 641 | Q | 48 | 94 | Q | 136 | 29 | 94 | 44 | 114 |
| 1 to 50 | 576 | Q | 65 | 116 | 35 | 56 | 56 | 70 | 40 | 121 |
| 51 to 99 | 627 | 22 | 59 | 114 | 61 | 119 | 63 | 72 | 39 | 77 |
| 100 | 2,813 | 130 | 307 | 459 | 266 | 437 | 247 | 383 | 193 | 393 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 1,097 | 71 | 142 | 219 | 108 | 117 | 43 | 96 | 77 | 224 |
| 1 to 50 | 1,012 | 65 | 161 | 221 | 109 | 126 | 70 | 93 | 55 | 112 |
| 51 to 99 | 751 | 30 | 49 | 137 | 70 | 140 | 66 | 114 | 69 | 76 |
| 100 | 1,796 | 41 | 126 | 205 | 119 | 364 | 217 | 315 | 116 | 293 |

Table B4. Census Region and Division, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | | |
|---|--------------------------------|-------------|-----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------|
| | All Buildings | Northeast | | Midwest | | South | | | West | |
| | | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Mountain | Pacific |
| Percent Lit When Open | | | | | | | | | | |
| Zero | 34 | Q | Q | Q | N | Q | Q | Q | Q | Q |
| 1 to 50 | 835 | 35 | 89 | 200 | 73 | 132 | 56 | 88 | 53 | 110 |
| 51 to 99 | 1,228 | 51 | 143 | 201 | 136 | 180 | 75 | 198 | 93 | 152 |
| 100 | 2,096 | 93 | 198 | 278 | 144 | 331 | 247 | 284 | 118 | 404 |
| Building Never Open/ Electricity Not Used | | | | | | | | | | |
| | 464 | Q | Q | 101 | 53 | 90 | Q | 47 | 50 | Q |
| Heating Equipment (more than one may apply) | | | | | | | | | | |
| Heat Pumps | 492 | 6 | 18 | 10 | 18 | 190 | 104 | 44 | 15 | 86 |
| Furnaces | 1,460 | 66 | 156 | 429 | 203 | 115 | 105 | 149 | 116 | 121 |
| Individual Space Heaters | 894 | 33 | 86 | 130 | 75 | 132 | 109 | 129 | 81 | 119 |
| District Heat | 96 | 2 | 29 | 8 | Q | 5 | Q | 20 | 5 | 12 |
| Boilers | 581 | 80 | 109 | 123 | 52 | 76 | 18 | 29 | 30 | 63 |
| Packaged Heating Units | 1,347 | 29 | 107 | 129 | 72 | 229 | 149 | 267 | 96 | 270 |
| Other | 185 | Q | 20 | 35 | Q | 17 | Q | 27 | 15 | 34 |
| Cooling Equipment (more than one may apply) | | | | | | | | | | |
| Residential-Type Central | | | | | | | | | | |
| Air Conditioners | 676 | Q | 63 | 174 | 111 | 79 | 63 | 116 | 29 | 32 |
| Heat Pumps | 485 | 4 | 15 | 8 | 19 | 187 | 99 | 43 | 19 | 91 |
| Individual Air Conditioners | 799 | 61 | 111 | 147 | 68 | 140 | 89 | 83 | 27 | 74 |
| District Chilled Water | 50 | Q | 2 | 2 | Q | 3 | Q | Q | Q | 7 |
| Central Chillers | 130 | 5 | 12 | 15 | 10 | 34 | 5 | 18 | 13 | 18 |
| Packaged Air Conditioning | | | | | | | | | | |
| Units | 1,953 | 76 | 189 | 284 | 119 | 318 | 200 | 323 | 142 | 301 |
| Swamp Coolers | 136 | Q | Q | Q | Q | Q | Q | Q | 73 | 36 |
| Other | 49 | Q | Q | Q | Q | 3 | Q | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | | |
| Heating | 984 | Q | 98 | 192 | 74 | 164 | 62 | 146 | 54 | 159 |
| Cooling | 1,085 | 51 | 100 | 183 | 47 | 202 | 90 | 203 | 69 | 139 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | |
| Multipaned Windows | 2,130 | 107 | 235 | 465 | 233 | 331 | 189 | 174 | 131 | 265 |
| Tinted, Reflective, or Shading Glass | 1,283 | 30 | 97 | 168 | 96 | 195 | 114 | 199 | 138 | 245 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | |
| Variable Air-Volume System | 550 | 11 | 82 | 94 | 36 | 106 | 26 | 63 | 44 | 89 |
| Economizer Cycle | 567 | 38 | 80 | 63 | 67 | 55 | 32 | 47 | 57 | 127 |
| HVAC Maintenance | 2,786 | 149 | 349 | 414 | 260 | 419 | 254 | 327 | 209 | 404 |
| Energy Management and Control System (EMCS) | 460 | 17 | 63 | 59 | 47 | 66 | 30 | 42 | 31 | 103 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | | |
| Specular Reflectors | 843 | 48 | 100 | 107 | 48 | 148 | 60 | 108 | 48 | 175 |
| Electronic Ballasts | 2,167 | 109 | 262 | 333 | 149 | 328 | 189 | 284 | 129 | 385 |
| Skylights or Atriums | 580 | 17 | 72 | 87 | 43 | 90 | 43 | 70 | 55 | 103 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B5. Census Region and Division, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | | |
|--|--|-------------|-----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------|
| | All Buildings | Northeast | | Midwest | | South | | | West | |
| | | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Mountain | Pacific |
| All Buildings | 67,338 | 3,735 | 8,625 | 11,205 | 5,556 | 11,001 | 5,220 | 7,264 | 4,579 | 10,152 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 287 | 614 | 1,186 | 648 | 1,006 | 514 | 1,015 | 493 | 1,009 |
| 5,001 to 10,000 | 8,238 | 287 | 1,015 | 1,480 | 566 | 1,430 | 644 | 983 | 612 | 1,222 |
| 10,001 to 25,000 | 11,153 | 569 | 1,384 | 1,855 | 1,026 | 1,707 | 1,343 | 1,145 | 632 | 1,492 |
| 25,001 to 50,000 | 9,311 | 506 | 902 | 1,181 | 592 | 1,597 | 875 | 912 | 865 | 1,881 |
| 50,001 to 100,000 | 10,112 | 709 | 1,062 | 1,544 | 892 | 1,679 | 654 | 1,116 | 817 | 1,638 |
| 100,001 to 200,000 | 8,271 | 506 | 956 | 1,549 | 730 | 1,621 | 508 | 735 | 552 | 1,114 |
| 200,001 to 500,000 | 6,851 | 176 | 1,187 | 1,434 | 560 | 1,261 | 342 | 670 | Q | 971 |
| Over 500,000 | 6,628 | Q | 1,507 | 976 | 543 | 698 | Q | 687 | 358 | 823 |
| Principal Building Activity | | | | | | | | | | |
| Education | 8,651 | 575 | 1,139 | 1,506 | 744 | 997 | 438 | 913 | 758 | 1,580 |
| Food Sales | 994 | Q | Q | Q | Q | Q | Q | 135 | Q | Q |
| Food Service | 1,851 | Q | Q | 463 | Q | 302 | Q | 207 | Q | 292 |
| Health Care | 2,918 | Q | 335 | 502 | 248 | 585 | 132 | 367 | 201 | 434 |
| Inpatient | 1,865 | Q | 291 | 336 | Q | 312 | Q | 215 | Q | 233 |
| Outpatient | 1,053 | Q | Q | Q | Q | 273 | Q | Q | Q | 201 |
| Lodging | 4,521 | Q | 315 | 725 | 215 | 825 | 467 | 303 | 545 | 956 |
| Mercantile | 10,398 | 612 | 1,273 | 1,780 | 811 | 2,007 | 937 | 1,135 | 418 | 1,423 |
| Retail (Other Than Mall) | 4,766 | Q | 725 | 1,158 | 442 | 625 | 430 | 512 | 169 | 458 |
| Enclosed and Strip Malls | 5,631 | Q | 548 | 622 | 369 | 1,383 | 507 | 623 | Q | 966 |
| Office | 12,044 | 849 | 1,540 | 1,777 | 1,043 | 2,311 | 696 | 1,155 | 760 | 1,913 |
| Public Assembly | 4,393 | Q | 574 | 635 | 507 | 539 | 431 | 541 | 373 | 486 |
| Public Order and Safety | 1,168 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Religious Worship | 3,405 | Q | 370 | 566 | 357 | 309 | Q | 487 | Q | 588 |
| Service | 3,388 | Q | 527 | 403 | 415 | 604 | 351 | 433 | 168 | 275 |
| Warehouse and Storage | 10,477 | 429 | 1,314 | 1,983 | 782 | 1,909 | 963 | 1,085 | 520 | 1,493 |
| Other | 1,222 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Vacant | 1,908 | Q | Q | 412 | Q | Q | Q | Q | Q | 198 |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 4,034 | 458 | 933 | 1,215 | 360 | 346 | Q | 159 | 267 | 251 |
| 1920 to 1945 | 6,445 | 423 | 1,196 | 1,849 | 574 | 603 | 335 | 765 | 287 | 412 |
| 1946 to 1959 | 9,127 | 434 | 1,596 | 1,417 | 735 | 1,106 | 659 | 1,146 | 713 | 1,322 |
| 1960 to 1969 | 10,866 | 670 | 1,380 | 1,605 | 997 | 1,613 | 639 | 1,065 | 807 | 2,089 |
| 1970 to 1979 | 11,840 | 746 | 1,078 | 1,564 | 784 | 2,060 | 754 | 1,464 | 676 | 2,715 |
| 1980 to 1989 | 13,931 | 570 | 1,500 | 1,673 | 1,155 | 2,966 | 1,739 | 1,557 | 1,126 | 1,645 |
| 1990 to 1999 | 11,094 | 433 | 943 | 1,882 | 952 | 2,306 | 1,050 | 1,107 | 704 | 1,716 |
| Floors | | | | | | | | | | |
| One | 26,800 | 835 | 2,295 | 3,976 | 1,824 | 5,249 | 2,611 | 3,965 | 1,958 | 4,086 |
| Two | 16,985 | 1,018 | 1,926 | 2,658 | 1,748 | 2,485 | 1,639 | 1,564 | 1,167 | 2,781 |
| Three | 8,928 | 674 | 1,587 | 2,049 | 675 | 1,043 | 417 | 646 | 631 | 1,205 |
| Four to Nine | 10,180 | 867 | 1,732 | 1,931 | 1,149 | 1,491 | Q | 636 | 659 | 1,302 |
| Ten or More | 4,445 | Q | 1,085 | 591 | Q | 733 | Q | 452 | Q | 777 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 14,321 | 521 | 1,385 | 2,847 | 1,186 | 2,314 | 1,158 | 2,108 | 1,118 | 1,685 |
| 5 to 9 | 6,325 | 450 | 923 | 1,146 | 544 | 705 | 454 | 571 | 465 | 1,069 |
| 10 to 19 | 8,028 | 425 | 1,048 | 1,315 | 615 | 1,447 | 856 | 632 | 470 | 1,220 |
| 20 to 49 | 10,814 | 479 | 1,096 | 1,820 | 755 | 1,745 | 1,167 | 1,261 | 812 | 1,680 |
| 50 to 99 | 8,898 | 715 | 1,099 | 1,014 | 862 | 1,508 | 537 | 831 | 587 | 1,745 |
| 100 to 249 | 8,356 | 579 | 1,123 | 1,605 | 623 | 1,575 | 526 | 756 | 573 | 997 |
| 250 or More | 10,595 | 567 | 1,952 | 1,459 | 971 | 1,708 | 522 | 1,105 | 555 | 1,757 |

Table B5. Census Region and Division, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | | |
|--|--|-------------|-----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------|
| | All Buildings | Northeast | | Midwest | | South | | | West | |
| | | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Mountain | Pacific |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 6,596 | 249 | 651 | 1,305 | 546 | 1,053 | 594 | 884 | 689 | 625 |
| 40 to 48 | 13,105 | 527 | 1,352 | 1,680 | 1,309 | 1,943 | 1,370 | 1,952 | 1,242 | 1,730 |
| 49 to 60 | 14,200 | 1,085 | 1,707 | 2,455 | 1,122 | 2,549 | 681 | 1,387 | 788 | 2,426 |
| 61 to 84 | 12,458 | 846 | 1,637 | 2,149 | 939 | 2,201 | 743 | 1,254 | 496 | 2,193 |
| 85 to 167 | 9,116 | 464 | 1,349 | 1,848 | 683 | 1,267 | 951 | 759 | 574 | 1,220 |
| Open Continuously | 11,863 | 565 | 1,930 | 1,768 | 957 | 1,987 | 882 | 1,027 | 790 | 1,958 |
| Ownership and Occupancy | | | | | | | | | | |
| Nongovernment Owned | 54,994 | 2,976 | 6,567 | 9,640 | 4,257 | 9,162 | 4,486 | 6,097 | 3,443 | 8,367 |
| Owner Occupied | 37,785 | 2,129 | 5,014 | 6,933 | 3,057 | 6,072 | 3,019 | 4,136 | 2,064 | 5,360 |
| Nonowner Occupied | 15,596 | 810 | 1,476 | 2,373 | 1,054 | 2,716 | 1,389 | 1,776 | 1,124 | 2,877 |
| Unoccupied | 1,613 | Q | Q | 334 | Q | Q | Q | Q | Q | Q |
| Government Owned | 12,343 | 759 | 2,059 | 1,565 | 1,300 | 1,839 | 734 | 1,167 | 1,136 | 1,785 |
| Vacancy Status | | | | | | | | | | |
| Completely Vacant | 953 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Mostly Vacant | 956 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Partially Vacant | 15,520 | 1,003 | 1,689 | 2,890 | 1,141 | 2,656 | 992 | 1,900 | 1,022 | 2,226 |
| Not At All Vacant | 49,910 | 2,619 | 6,682 | 7,903 | 4,294 | 8,124 | 4,172 | 5,086 | 3,301 | 7,728 |
| Number of Establishments | | | | | | | | | | |
| One | 43,343 | 2,225 | 5,440 | 7,546 | 3,753 | 6,407 | 3,558 | 4,758 | 3,066 | 6,588 |
| 2 to 5 | 10,582 | 610 | 1,575 | 2,042 | 858 | 1,659 | 751 | 1,012 | 538 | 1,537 |
| 6 to 10 | 3,574 | Q | 366 | 306 | 266 | 701 | Q | 353 | 262 | 806 |
| 11 to 20 | 3,260 | 376 | 329 | 319 | 260 | 826 | Q | 252 | Q | 499 |
| More than 20 | 4,811 | Q | 830 | 606 | Q | 1,026 | Q | 686 | Q | 587 |
| Currently Unoccupied | 1,769 | Q | Q | 386 | Q | Q | Q | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 65,716 | 3,615 | 8,349 | 10,940 | 5,449 | 10,817 | 5,149 | 7,110 | 4,292 | 9,995 |
| Natural Gas | 45,525 | 1,590 | 5,714 | 9,383 | 4,123 | 5,517 | 3,508 | 5,174 | 3,183 | 7,332 |
| Fuel Oil | 13,285 | 2,254 | 3,160 | 1,299 | 1,123 | 2,457 | 546 | 747 | 379 | 1,321 |
| District Heat | 5,891 | 180 | 1,718 | 799 | 722 | 504 | Q | 524 | 410 | 797 |
| District Chilled Water | 2,750 | Q | 252 | 282 | 464 | 359 | Q | 488 | Q | 494 |
| Propane | 6,290 | 858 | 848 | 752 | 653 | 1,455 | 694 | 239 | Q | 693 |
| Other | 2,322 | Q | 539 | 360 | Q | 268 | Q | Q | Q | 439 |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 61,602 | 3,551 | 8,116 | 10,530 | 5,386 | 9,243 | 4,854 | 6,501 | 4,204 | 9,218 |
| Buildings with Cooling | 58,474 | 3,034 | 7,278 | 9,374 | 4,997 | 10,140 | 4,793 | 6,616 | 3,845 | 8,398 |
| Buildings with Water Heating | 56,115 | 3,187 | 7,390 | 9,131 | 4,571 | 8,900 | 4,247 | 5,867 | 3,993 | 8,828 |
| Buildings with Cooking | 24,681 | 1,487 | 3,758 | 4,088 | 1,953 | 4,531 | 1,552 | 2,486 | 1,533 | 3,292 |
| Buildings with Manufacturing | 3,126 | Q | 392 | 493 | Q | 388 | Q | 340 | Q | 568 |
| Buildings with Electricity Generation | 11,882 | 988 | 2,121 | 1,728 | 1,054 | 2,530 | 659 | 873 | 532 | 1,398 |
| Percent of Floorspace Heated | | | | | | | | | | |
| Not Heated | 5,736 | Q | 510 | 675 | Q | 1,757 | 366 | 763 | 376 | 934 |
| 1 to 50 | 7,593 | Q | 810 | 1,177 | 393 | 981 | 697 | 860 | 471 | 1,960 |
| 51 to 99 | 10,745 | 446 | 1,242 | 1,665 | 657 | 2,030 | 1,123 | 1,182 | 465 | 1,935 |
| 100 | 43,264 | 2,863 | 6,064 | 7,687 | 4,335 | 6,232 | 3,034 | 4,460 | 3,268 | 5,322 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 8,864 | 701 | 1,348 | 1,831 | 559 | 861 | 427 | 648 | 735 | 1,754 |
| 1 to 50 | 16,846 | 1,105 | 2,808 | 3,490 | 1,578 | 2,070 | 1,136 | 1,412 | 871 | 2,375 |
| 51 to 99 | 16,966 | 917 | 2,279 | 3,015 | 1,726 | 2,970 | 1,220 | 1,610 | 1,028 | 2,200 |
| 100 | 24,662 | 1,012 | 2,190 | 2,869 | 1,693 | 5,099 | 2,438 | 3,593 | 1,945 | 3,823 |

Table B5. Census Region and Division, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | | |
|---|--|-------------|-----------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------|
| | All Buildings | Northeast | | Midwest | | South | | | West | |
| | | New England | Middle Atlantic | East North Central | West North Central | South Atlantic | East South Central | West South Central | Mountain | Pacific |
| Percent Lit When Open | | | | | | | | | | |
| Zero | 173 | Q | Q | Q | N | Q | Q | Q | Q | Q |
| 1 to 50 | 9,187 | 479 | 1,140 | 1,866 | 620 | 1,436 | 728 | 849 | 572 | 1,497 |
| 51 to 99 | 20,665 | 1,259 | 2,822 | 3,830 | 1,983 | 2,973 | 1,248 | 2,171 | 1,373 | 3,005 |
| 100 | 34,233 | 1,832 | 4,245 | 4,927 | 2,741 | 5,916 | 3,080 | 3,821 | 2,273 | 5,398 |
| Building Never Open/ Electricity Not Used | | | | | | | | | | |
| | 3,080 | Q | Q | 569 | 212 | 624 | Q | 410 | 337 | 245 |
| Heating Equipment (more than one may apply) | | | | | | | | | | |
| Heat Pumps | 8,923 | 387 | 807 | 476 | 539 | 2,594 | 1,382 | 604 | 571 | 1,564 |
| Furnaces | 14,449 | 775 | 1,482 | 3,908 | 1,859 | 1,310 | 1,253 | 1,387 | 1,232 | 1,244 |
| Individual Space Heaters | 17,349 | 937 | 2,618 | 2,812 | 1,854 | 2,293 | 1,579 | 1,599 | 1,250 | 2,407 |
| District Heat | 5,534 | 180 | 1,696 | 792 | 722 | 423 | Q | 486 | Q | 758 |
| Boilers | 19,522 | 2,170 | 3,299 | 4,010 | 1,951 | 2,243 | 771 | 1,195 | 1,329 | 2,554 |
| Packaged Heating Units | 25,743 | 1,086 | 2,946 | 3,302 | 1,778 | 4,695 | 2,401 | 3,359 | 1,592 | 4,583 |
| Other | 4,073 | Q | 595 | 825 | 289 | 578 | Q | 576 | 311 | 488 |
| Cooling Equipment (more than one may apply) | | | | | | | | | | |
| Residential-Type Central | | | | | | | | | | |
| Air Conditioners | 8,329 | Q | 790 | 1,766 | 1,186 | 1,281 | 898 | 1,093 | 646 | 510 |
| Heat Pumps | 9,147 | 346 | 870 | 490 | 573 | 2,642 | 1,316 | 646 | 649 | 1,615 |
| Individual Air Conditioners | 14,276 | 1,316 | 2,581 | 2,525 | 1,200 | 1,940 | 1,386 | 1,200 | 642 | 1,487 |
| District Chilled Water | 2,750 | Q | 252 | 282 | 464 | 359 | Q | 488 | Q | 494 |
| Central Chillers | 12,909 | 719 | 2,063 | 2,013 | 1,136 | 2,269 | 591 | 1,468 | 753 | 1,897 |
| Packaged Air Conditioning | | | | | | | | | | |
| Units | 36,527 | 1,796 | 4,844 | 5,463 | 2,735 | 6,575 | 3,147 | 4,193 | 2,206 | 5,568 |
| Swamp Coolers | 2,219 | Q | Q | Q | Q | Q | Q | Q | 986 | 638 |
| Other | 1,312 | Q | Q | Q | Q | 154 | Q | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | | |
| Heating | 13,220 | 551 | 1,277 | 2,335 | 909 | 2,032 | 1,348 | 1,700 | 840 | 2,227 |
| Cooling | 17,390 | 972 | 2,108 | 2,891 | 917 | 3,237 | 1,576 | 2,276 | 1,009 | 2,405 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | |
| Multipaned Windows | 38,193 | 2,534 | 5,029 | 7,421 | 4,125 | 5,989 | 2,820 | 3,171 | 2,478 | 4,624 |
| Tinted, Reflective, or Shading Glass | 29,915 | 1,347 | 3,178 | 4,234 | 2,130 | 5,279 | 2,330 | 3,637 | 2,337 | 5,443 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | |
| Variable Air-Volume System | 19,387 | 988 | 2,655 | 3,333 | 1,524 | 3,163 | 998 | 1,960 | 1,401 | 3,364 |
| Economizer Cycle | 21,256 | 1,419 | 3,215 | 3,305 | 2,384 | 3,025 | 1,015 | 1,818 | 1,586 | 3,489 |
| HVAC Maintenance | 53,395 | 3,266 | 7,374 | 8,461 | 4,564 | 8,699 | 4,107 | 5,176 | 3,772 | 7,977 |
| Energy Management and Control System (EMCS) | 21,613 | 1,404 | 2,806 | 3,591 | 1,705 | 3,694 | 1,036 | 2,378 | 1,564 | 3,434 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | | |
| Specular Reflectors | 19,994 | 1,624 | 3,251 | 2,978 | 1,318 | 3,386 | 1,117 | 1,897 | 1,232 | 3,192 |
| Electronic Ballasts | 42,035 | 2,398 | 6,082 | 6,991 | 3,297 | 6,646 | 2,835 | 4,265 | 2,650 | 6,873 |
| Skylights or Atriums | 18,286 | 1,221 | 2,476 | 3,006 | 1,485 | 2,860 | 1,359 | 1,897 | 1,326 | 2,656 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B6. Building Size, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|------------------------------------|--------------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 | 4,657 | 2,348 | 1,110 | 708 | 257 | 145 | 59 | 23 | 7 |
| Principal Building Activity | | | | | | | | | |
| Education | 327 | 119 | 61 | 52 | 49 | 30 | 10 | 5 | Q |
| Food Sales | 174 | 138 | Q | Q | Q | Q | Q | N | N |
| Food Service | 349 | 251 | 71 | 23 | Q | Q | Q | N | N |
| Health Care | 127 | 64 | Q | 10 | 8 | 4 | 2 | 2 | 1 |
| Inpatient | 11 | N | N | Q | Q | Q | 2 | 2 | 1 |
| Outpatient | 116 | 64 | Q | Q | 7 | Q | Q | Q | Q |
| Lodging | 153 | Q | 38 | 27 | 32 | 11 | 4 | 3 | Q |
| Mercantile | 667 | 316 | 146 | 141 | 28 | 20 | 13 | 2 | 1 |
| Retail (Other Than Mall) | 534 | 308 | 103 | 100 | 11 | 6 | 5 | Q | Q |
| Enclosed and Strip Malls | 133 | Q | 43 | 41 | 17 | 14 | 8 | 1 | 1 |
| Office | 739 | 422 | 141 | 95 | 33 | 29 | 13 | 5 | 2 |
| Public Assembly | 305 | 124 | 88 | 64 | 15 | 11 | 2 | 1 | Q |
| Public Order and Safety | 72 | Q | Q | 24 | 5 | Q | Q | Q | Q |
| Religious Worship | 307 | 92 | 102 | 92 | 15 | Q | Q | N | Q |
| Service | 478 | 291 | 131 | 41 | 11 | Q | Q | Q | Q |
| Warehouse and Storage | 603 | 266 | 157 | 97 | 46 | 22 | 11 | 4 | 1 |
| Other | 102 | Q | Q | 14 | Q | Q | Q | Q | Q |
| Vacant | 253 | 153 | 73 | 17 | 7 | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 419 | 227 | 107 | 63 | 13 | 7 | Q | Q | Q |
| 1920 to 1945 | 499 | 270 | 102 | 90 | 20 | 9 | 5 | 2 | 1 |
| 1946 to 1959 | 763 | 359 | 240 | 97 | 39 | 19 | 5 | 3 | 1 |
| 1960 to 1969 | 665 | 321 | 166 | 84 | 53 | 24 | 12 | 4 | 1 |
| 1970 to 1979 | 774 | 367 | 193 | 130 | 44 | 26 | 8 | 4 | 2 |
| 1980 to 1989 | 846 | 413 | 156 | 179 | 43 | 33 | 15 | 4 | 2 |
| 1990 to 1999 | 690 | 390 | 145 | 65 | 44 | 27 | 12 | 4 | 1 |
| Floors | | | | | | | | | |
| One | 2,879 | 1,751 | 633 | 311 | 109 | 48 | 22 | 5 | 1 |
| Two | 1,168 | 475 | 317 | 238 | 81 | 40 | 12 | 4 | 1 |
| Three | 420 | 101 | 121 | 119 | 41 | 26 | 8 | 3 | Q |
| Four to Nine | 178 | Q | 39 | 40 | 26 | 28 | 15 | 7 | 2 |
| Ten or More | 11 | N | N | Q | Q | Q | 3 | 4 | 3 |
| Census Region | | | | | | | | | |
| Northeast | 686 | 305 | 169 | 130 | 39 | 26 | 10 | 5 | 2 |
| Midwest | 1,188 | 620 | 273 | 188 | 48 | 35 | 16 | 7 | 2 |
| South | 1,762 | 916 | 413 | 260 | 93 | 49 | 20 | 8 | 2 |
| West | 1,021 | 506 | 255 | 130 | 76 | 35 | 13 | 4 | 1 |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 2,376 | 1,567 | 511 | 250 | 37 | 7 | 2 | Q | Q |
| 5 to 9 | 807 | 482 | 180 | 105 | 32 | 6 | 3 | Q | N |
| 10 to 19 | 683 | 226 | 249 | 146 | 47 | 12 | Q | Q | Q |
| 20 to 49 | 487 | 66 | 144 | 157 | 75 | 36 | 7 | 2 | Q |
| 50 to 99 | 174 | Q | Q | 46 | 46 | 45 | 15 | 2 | Q |
| 100 to 249 | 90 | Q | Q | Q | 18 | 29 | 18 | 7 | 1 |
| 250 or More | 39 | N | N | Q | Q | 10 | 12 | 10 | 5 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 978 | 605 | 244 | 105 | 17 | 4 | Q | Q | Q |
| 40 to 48 | 1,156 | 557 | 342 | 153 | 58 | 36 | 8 | 2 | Q |
| 49 to 60 | 986 | 471 | 225 | 177 | 63 | 34 | 11 | 4 | 1 |
| 61 to 84 | 664 | 292 | 163 | 121 | 45 | 26 | 12 | 4 | 2 |
| 85 to 167 | 474 | 240 | 76 | 91 | 27 | 21 | 13 | 4 | 1 |
| Open Continuously | 398 | 183 | 60 | 62 | 47 | 24 | 12 | 7 | 3 |

Table B6. Building Size, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|--|--------------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 |
| Ownership and Occupancy | | | | | | | | | |
| Nongovernment Owned | 4,135 | 2,131 | 1,006 | 618 | 202 | 109 | 47 | 18 | 5 |
| Owner Occupied | 2,801 | 1,433 | 693 | 431 | 129 | 69 | 29 | 13 | 5 |
| Nonowner Occupied | 1,099 | 548 | 250 | 172 | 68 | 39 | 17 | 4 | 1 |
| Unoccupied | 236 | 151 | Q | 15 | Q | Q | Q | Q | Q |
| Government Owned | 521 | 216 | 104 | 91 | 55 | 36 | 13 | 5 | 2 |
| Vacancy Status | | | | | | | | | |
| Completely Vacant | 140 | Q | Q | 8 | Q | Q | Q | Q | N |
| Mostly Vacant | 113 | Q | Q | Q | Q | Q | Q | Q | Q |
| Partially Vacant | 697 | 282 | 200 | 107 | 51 | 33 | 15 | 6 | 3 |
| Not At All Vacant | 3,707 | 1,913 | 837 | 584 | 198 | 110 | 44 | 17 | 4 |
| Number of Establishments | | | | | | | | | |
| One | 3,528 | 1,897 | 802 | 506 | 184 | 88 | 34 | 14 | 3 |
| 2 to 5 | 688 | 272 | 222 | 121 | 33 | 26 | 10 | 3 | 1 |
| 6 to 10 | 114 | Q | 17 | 51 | 15 | 12 | 4 | 2 | Q |
| 11 to 20 | 48 | Q | Q | 12 | 15 | 12 | 6 | 2 | Q |
| More than 20 | 27 | Q | Q | Q | Q | 6 | 5 | 2 | 3 |
| Currently Unoccupied | 251 | 164 | Q | 17 | Q | Q | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 4,395 | 2,186 | 1,036 | 688 | 253 | 143 | 59 | 23 | 7 |
| Natural Gas | 2,670 | 1,193 | 684 | 448 | 176 | 103 | 42 | 18 | 5 |
| Fuel Oil | 434 | 220 | 74 | 65 | 28 | 22 | 13 | 9 | 4 |
| District Heat | 117 | Q | Q | 24 | 19 | 13 | 7 | 3 | 2 |
| District Chilled Water | 50 | Q | Q | Q | 7 | 7 | 5 | 2 | 1 |
| Propane | 451 | 215 | 124 | 74 | 17 | 13 | 6 | 2 | 1 |
| Other | 153 | 93 | Q | 19 | 7 | 5 | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 1,982 | 946 | 629 | 237 | 137 | 57 | 22 | 7 |
| Buildings with Cooling | 3,560 | 1,680 | 828 | 611 | 223 | 134 | 55 | 21 | 7 |
| Buildings with Water Heating | 3,239 | 1,456 | 778 | 574 | 222 | 127 | 54 | 21 | 7 |
| Buildings with Cooking | 857 | 357 | 176 | 150 | 72 | 54 | 29 | 14 | 5 |
| Buildings with Manufacturing | 151 | Q | 36 | 28 | 11 | 9 | 3 | 1 | Q |
| Buildings with Electricity Generation | 172 | Q | Q | 24 | 22 | 26 | 13 | 9 | 4 |
| Percent of Floorspace Heated | | | | | | | | | |
| Not Heated | 641 | 366 | 164 | 79 | 20 | 8 | 3 | 1 | Q |
| 1 to 50 | 576 | 230 | 194 | 102 | 29 | 12 | 5 | 2 | 1 |
| 51 to 99 | 627 | 272 | 149 | 128 | 45 | 20 | 7 | 4 | 2 |
| 100 | 2,813 | 1,479 | 603 | 399 | 162 | 105 | 45 | 16 | 5 |
| Percent of Floorspace Cooled | | | | | | | | | |
| Not Cooled | 1,097 | 668 | 282 | 98 | 34 | 10 | 4 | 2 | Q |
| 1 to 50 | 1,012 | 352 | 292 | 242 | 69 | 37 | 13 | 7 | 1 |
| 51 to 99 | 751 | 294 | 188 | 146 | 58 | 37 | 16 | 8 | 3 |
| 100 | 1,796 | 1,034 | 348 | 222 | 96 | 60 | 27 | 7 | 2 |
| Percent Lit When Open | | | | | | | | | |
| Zero | 34 | Q | Q | Q | Q | N | Q | N | N |
| 1 to 50 | 835 | 351 | 279 | 147 | 40 | 13 | 4 | 2 | 0 |
| 51 to 99 | 1,228 | 517 | 351 | 198 | 84 | 52 | 16 | 8 | 3 |
| 100 | 2,096 | 1,156 | 367 | 316 | 124 | 77 | 39 | 13 | 4 |
| Building Never Open/ Electricity Not Used | 464 | 294 | 113 | 45 | 8 | Q | Q | Q | Q |

Table B6. Building Size, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 |
| Heating Equipment (more than one may apply) | | | | | | | | | |
| Heat Pumps | 492 | 240 | 100 | 81 | 37 | 20 | 8 | 3 | 1 |
| Furnaces | 1,460 | 783 | 387 | 206 | 47 | 25 | 9 | 3 | 1 |
| Individual Space Heaters | 894 | 397 | 183 | 191 | 62 | 35 | 18 | 6 | 3 |
| District Heat | 96 | Q | Q | 19 | 17 | 13 | 7 | 3 | 2 |
| Boilers | 581 | 146 | 144 | 128 | 72 | 52 | 24 | 11 | 3 |
| Packaged Heating Units | 1,347 | 589 | 302 | 253 | 101 | 62 | 27 | 10 | 3 |
| Other | 185 | 98 | Q | 22 | 14 | 8 | 3 | 2 | 1 |
| Cooling Equipment (more than one may apply) | | | | | | | | | |
| Residential-Type Central | | | | | | | | | |
| Air Conditioners | 676 | 319 | 211 | 96 | 24 | 17 | 7 | 2 | 1 |
| Heat Pumps | 485 | 240 | 95 | 80 | 35 | 22 | 9 | 4 | 1 |
| Individual Air Conditioners | 799 | 356 | 184 | 149 | 60 | 29 | 13 | 7 | 1 |
| District Chilled Water | 50 | Q | Q | Q | 7 | 7 | 5 | 2 | 1 |
| Central Chillers | 130 | Q | Q | 17 | 25 | 28 | 16 | 9 | 4 |
| Packaged Air Conditioning | | | | | | | | | |
| Units | 1,953 | 857 | 423 | 387 | 141 | 89 | 37 | 14 | 4 |
| Swamp Coolers | 136 | 79 | 25 | 13 | 9 | 7 | 2 | Q | Q |
| Other | 49 | Q | Q | Q | 4 | Q | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | |
| Heating | 984 | 469 | 250 | 160 | 61 | 32 | 9 | 4 | 1 |
| Cooling | 1,085 | 490 | 239 | 224 | 73 | 38 | 13 | 7 | 2 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | | |
| Incandescent | 2,193 | 980 | 548 | 391 | 138 | 83 | 33 | 14 | 5 |
| Standard Fluorescent | 3,778 | 1,795 | 904 | 628 | 230 | 136 | 56 | 22 | 7 |
| Compact Fluorescent | 607 | 198 | 149 | 109 | 62 | 48 | 24 | 12 | 4 |
| High Intensity Discharge | 430 | 80 | 94 | 111 | 60 | 43 | 25 | 11 | 5 |
| Halogen | 572 | 194 | 136 | 123 | 43 | 41 | 23 | 9 | 4 |
| Other | 58 | Q | Q | Q | Q | Q | Q | Q | Q |
| Personal Computers | | | | | | | | | |
| None | 1,617 | 1,056 | 413 | 117 | 23 | 5 | 2 | 1 | Q |
| 1 to 4 | 1,636 | 875 | 394 | 288 | 59 | 14 | 6 | Q | Q |
| 5 to 9 | 542 | 280 | 105 | 95 | 41 | 18 | 3 | Q | Q |
| 10 to 19 | 403 | 106 | 142 | 93 | 34 | 19 | 6 | 2 | Q |
| 20 to 49 | 247 | Q | 53 | 78 | 46 | 26 | 12 | 2 | 1 |
| 50 to 99 | 105 | Q | Q | 32 | 34 | 25 | 7 | 3 | 1 |
| 100 to 249 | 71 | Q | Q | Q | 17 | 30 | 12 | 4 | 1 |
| 250 or More | 36 | N | N | N | Q | 9 | 11 | 9 | 4 |
| Photocopiers | | | | | | | | | |
| None | 2,825 | 1,706 | 691 | 309 | 81 | 29 | 7 | 3 | Q |
| One | 1,114 | 500 | 295 | 217 | 69 | 23 | 8 | 1 | Q |
| 2 to 4 | 540 | 136 | 99 | 148 | 75 | 55 | 19 | 7 | 1 |
| 5 to 9 | 102 | Q | Q | 23 | 18 | 17 | 9 | 4 | 1 |
| 10 or More | 75 | N | N | Q | 14 | 21 | 17 | 9 | 5 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | | |
| Laser Printers | 1,949 | 732 | 424 | 412 | 181 | 121 | 52 | 20 | 7 |
| FAX Machines | 2,807 | 1,203 | 661 | 509 | 213 | 136 | 56 | 22 | 7 |
| Medical Diagnostic Equipment | 86 | Q | Q | Q | 6 | 4 | 2 | 2 | 1 |

Table B6. Building Size, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | |
| Commercial Food Preparation | 767 | 320 | 157 | 123 | 68 | 52 | 28 | 14 | 5 |
| Activities with Large Amounts of Hot Water | 698 | 232 | 142 | 149 | 87 | 47 | 25 | 12 | 4 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | |
| Multipaned Windows | 2,130 | 1,005 | 497 | 344 | 138 | 89 | 36 | 15 | 5 |
| Tinted, Reflective, or Shading Glass | 1,283 | 507 | 329 | 214 | 110 | 69 | 35 | 13 | 5 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | |
| Variable Air-Volume System | 550 | 188 | 136 | 81 | 57 | 49 | 23 | 10 | 5 |
| Economizer Cycle | 567 | 218 | 104 | 86 | 61 | 52 | 30 | 11 | 5 |
| HVAC Maintenance | 2,786 | 1,217 | 627 | 521 | 209 | 129 | 55 | 21 | 7 |
| Energy Management and Control System (EMCS) | 460 | 150 | 59 | 81 | 65 | 56 | 31 | 13 | 5 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | |
| Specular Reflectors | 843 | 389 | 186 | 123 | 64 | 46 | 20 | 10 | 4 |
| Electronic Ballasts | 2,167 | 952 | 545 | 354 | 149 | 98 | 45 | 17 | 6 |
| Skylights or Atriums | 580 | 200 | 128 | 116 | 62 | 39 | 20 | 9 | 4 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | |
| Heating | 2,862 | 1,387 | 743 | 432 | 160 | 89 | 36 | 11 | 4 |
| Cooling | 2,622 | 1,229 | 659 | 442 | 151 | 90 | 35 | 12 | 4 |
| Lighting | 3,675 | 1,794 | 913 | 592 | 197 | 115 | 45 | 15 | 4 |
| Office Equipment | 184 | Q | Q | 50 | 39 | 38 | 14 | 4 | 1 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B7. Building Size, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|------------------------------------|--|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 | 67,338 | 6,774 | 8,238 | 11,153 | 9,311 | 10,112 | 8,271 | 6,851 | 6,628 |
| Principal Building Activity | | | | | | | | | |
| Education | 8,651 | 338 | 444 | 883 | 1,803 | 2,144 | 1,484 | 1,311 | Q |
| Food Sales | 994 | 302 | Q | Q | Q | Q | Q | N | N |
| Food Service | 1,851 | 754 | 541 | 352 | Q | Q | Q | N | N |
| Health Care | 2,918 | 189 | Q | 135 | 274 | 263 | 315 | 756 | 767 |
| Inpatient | 1,865 | N | N | Q | Q | Q | 243 | 681 | 760 |
| Outpatient | 1,053 | 189 | Q | Q | 235 | Q | Q | Q | Q |
| Lodging | 4,521 | Q | 283 | 436 | 1,142 | 758 | 530 | 794 | Q |
| Mercantile | 10,398 | 925 | 1,047 | 2,131 | 1,001 | 1,498 | 1,765 | 427 | 1,605 |
| Retail (Other Than Mall) | 4,766 | 901 | 749 | 1,511 | 400 | 464 | 662 | Q | Q |
| Enclosed and Strip Malls | 5,631 | Q | 298 | 619 | 601 | 1,034 | 1,103 | 359 | 1,593 |
| Office | 12,044 | 1,212 | 1,063 | 1,486 | 1,191 | 1,951 | 1,717 | 1,560 | 1,864 |
| Public Assembly | 4,393 | 337 | 646 | 968 | 559 | 740 | 285 | 347 | Q |
| Public Order and Safety | 1,168 | Q | Q | 365 | 155 | Q | Q | Q | Q |
| Religious Worship | 3,405 | 272 | 730 | 1,435 | 530 | Q | Q | N | Q |
| Service | 3,388 | 825 | 962 | 630 | 380 | Q | Q | Q | Q |
| Warehouse and Storage | 10,477 | 790 | 1,242 | 1,647 | 1,693 | 1,525 | 1,565 | 1,290 | 725 |
| Other | 1,222 | Q | Q | 205 | Q | Q | Q | Q | Q |
| Vacant | 1,908 | 497 | 527 | 278 | 246 | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 4,034 | 655 | 791 | 972 | 489 | 483 | Q | Q | Q |
| 1920 to 1945 | 6,445 | 798 | 776 | 1,504 | 673 | 637 | 727 | 705 | 624 |
| 1946 to 1959 | 9,127 | 1,025 | 1,777 | 1,488 | 1,343 | 1,343 | 789 | 796 | 565 |
| 1960 to 1969 | 10,866 | 928 | 1,165 | 1,267 | 1,987 | 1,698 | 1,593 | 1,243 | 987 |
| 1970 to 1979 | 11,840 | 1,056 | 1,392 | 2,045 | 1,587 | 1,816 | 1,147 | 1,206 | 1,593 |
| 1980 to 1989 | 13,931 | 1,153 | 1,150 | 2,767 | 1,594 | 2,273 | 2,088 | 1,307 | 1,599 |
| 1990 to 1999 | 11,094 | 1,159 | 1,188 | 1,110 | 1,638 | 1,862 | 1,662 | 1,344 | 1,131 |
| Floors | | | | | | | | | |
| One | 26,800 | 4,898 | 4,726 | 4,887 | 3,929 | 3,377 | 2,930 | 1,328 | 724 |
| Two | 16,985 | 1,528 | 2,263 | 3,689 | 2,922 | 2,799 | 1,645 | 1,059 | 1,081 |
| Three | 8,928 | 278 | 942 | 1,907 | 1,475 | 1,776 | 1,128 | 942 | Q |
| Four to Nine | 10,180 | Q | 308 | 666 | 979 | 2,015 | 2,112 | 2,325 | 1,704 |
| Ten or More | 4,445 | N | N | Q | Q | Q | 457 | 1,197 | 2,638 |
| Census Region | | | | | | | | | |
| Northeast | 12,360 | 901 | 1,302 | 1,954 | 1,407 | 1,771 | 1,461 | 1,362 | 2,202 |
| Midwest | 16,761 | 1,835 | 2,045 | 2,881 | 1,773 | 2,436 | 2,279 | 1,993 | 1,519 |
| South | 23,485 | 2,536 | 3,058 | 4,194 | 3,384 | 3,450 | 2,864 | 2,273 | 1,726 |
| West | 14,731 | 1,503 | 1,834 | 2,124 | 2,746 | 2,455 | 1,666 | 1,222 | 1,180 |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 14,321 | 4,230 | 3,748 | 3,922 | 1,361 | 430 | 356 | Q | Q |
| 5 to 9 | 6,325 | 1,502 | 1,331 | 1,557 | 1,098 | 444 | 350 | Q | N |
| 10 to 19 | 8,028 | 791 | 1,792 | 2,263 | 1,647 | 799 | Q | Q | Q |
| 20 to 49 | 10,814 | 235 | 1,174 | 2,510 | 2,759 | 2,437 | 955 | 635 | Q |
| 50 to 99 | 8,898 | Q | Q | 819 | 1,690 | 3,172 | 2,000 | 598 | Q |
| 100 to 249 | 8,356 | Q | Q | Q | 692 | 2,067 | 2,552 | 1,927 | 979 |
| 250 or More | 10,595 | N | N | Q | Q | 762 | 1,767 | 3,015 | 4,977 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 6,596 | 1,712 | 1,790 | 1,632 | 571 | 269 | Q | Q | Q |
| 40 to 48 | 13,105 | 1,621 | 2,595 | 2,437 | 2,049 | 2,483 | 1,151 | 656 | Q |
| 49 to 60 | 14,200 | 1,384 | 1,633 | 2,712 | 2,291 | 2,421 | 1,534 | 1,200 | 1,025 |
| 61 to 84 | 12,458 | 859 | 1,213 | 1,952 | 1,673 | 1,751 | 1,710 | 1,231 | 2,068 |
| 85 to 167 | 9,116 | 745 | 575 | 1,419 | 1,037 | 1,486 | 1,751 | 1,244 | 859 |
| Open Continuously | 11,863 | 454 | 432 | 1,001 | 1,689 | 1,702 | 1,787 | 2,271 | 2,528 |

Table B7. Building Size, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|--|--|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 |
| Ownership and Occupancy | | | | | | | | | |
| Nongovernment Owned | 54,994 | 6,189 | 7,466 | 9,655 | 7,264 | 7,571 | 6,509 | 5,229 | 5,112 |
| Owner Occupied | 37,785 | 4,040 | 5,179 | 6,736 | 4,577 | 4,723 | 4,097 | 3,924 | 4,509 |
| Nonowner Occupied | 15,596 | 1,686 | 1,827 | 2,656 | 2,496 | 2,775 | 2,374 | 1,190 | 592 |
| Unoccupied | 1,613 | 463 | Q | 264 | Q | Q | Q | Q | Q |
| Government Owned | 12,343 | 585 | 772 | 1,498 | 2,047 | 2,541 | 1,762 | 1,622 | 1,516 |
| Vacancy Status | | | | | | | | | |
| Completely Vacant | 953 | Q | Q | 124 | Q | Q | Q | Q | N |
| Mostly Vacant | 956 | Q | Q | Q | Q | Q | Q | Q | Q |
| Partially Vacant | 15,520 | 784 | 1,430 | 1,824 | 1,868 | 2,291 | 2,067 | 1,769 | 3,487 |
| Not At All Vacant | 49,910 | 5,493 | 6,281 | 9,051 | 7,196 | 7,726 | 6,127 | 4,940 | 3,094 |
| Number of Establishments | | | | | | | | | |
| One | 43,343 | 5,358 | 5,952 | 7,812 | 6,720 | 6,063 | 4,798 | 4,126 | 2,514 |
| 2 to 5 | 10,582 | 857 | 1,630 | 1,982 | 1,220 | 1,833 | 1,453 | 931 | 676 |
| 6 to 10 | 3,574 | Q | 137 | 784 | 550 | 845 | 480 | 498 | Q |
| 11 to 20 | 3,260 | Q | Q | Q | 494 | 839 | 790 | 455 | 416 |
| More than 20 | 4,811 | Q | Q | Q | Q | 432 | 690 | 702 | 2,771 |
| Currently Unoccupied | 1,769 | 512 | Q | 296 | Q | Q | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 65,716 | 6,280 | 7,721 | 10,843 | 9,175 | 10,034 | 8,246 | 6,790 | 6,628 |
| Natural Gas | 45,525 | 3,566 | 5,088 | 7,001 | 6,405 | 7,165 | 5,915 | 5,282 | 5,104 |
| Fuel Oil | 13,285 | 620 | 583 | 983 | 983 | 1,612 | 1,875 | 2,984 | 3,645 |
| District Heat | 5,891 | Q | Q | 414 | 660 | 933 | 903 | 1,003 | 1,707 |
| District Chilled Water | 2,750 | Q | Q | Q | 294 | 525 | 630 | 470 | 630 |
| Propane | 6,290 | 635 | 986 | 1,203 | 568 | 865 | 854 | 616 | 562 |
| Other | 2,322 | 292 | Q | 290 | 250 | 350 | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 61,602 | 5,684 | 7,090 | 9,865 | 8,565 | 9,597 | 7,893 | 6,445 | 6,465 |
| Buildings with Cooling | 58,474 | 4,879 | 6,212 | 9,530 | 8,116 | 9,401 | 7,609 | 6,345 | 6,382 |
| Buildings with Water Heating | 56,115 | 4,280 | 5,748 | 9,000 | 8,088 | 8,887 | 7,527 | 6,258 | 6,327 |
| Buildings with Cooking | 24,681 | 1,095 | 1,272 | 2,415 | 2,630 | 3,901 | 4,092 | 4,254 | 5,020 |
| Buildings with Manufacturing | 3,126 | Q | 318 | 519 | 390 | 600 | 478 | 283 | Q |
| Buildings with Electricity Generation | 11,882 | Q | Q | 433 | 813 | 1,920 | 1,836 | 2,778 | 3,725 |
| Percent of Floorspace Heated | | | | | | | | | |
| Not Heated | 5,736 | 1,091 | 1,148 | 1,289 | 746 | 515 | 378 | 406 | Q |
| 1 to 50 | 7,593 | 707 | 1,504 | 1,611 | 1,078 | 877 | 739 | 589 | 487 |
| 51 to 99 | 10,745 | 750 | 1,177 | 1,936 | 1,690 | 1,407 | 946 | 1,341 | 1,498 |
| 100 | 43,264 | 4,227 | 4,409 | 6,317 | 5,796 | 7,313 | 6,207 | 4,515 | 4,480 |
| Percent of Floorspace Cooled | | | | | | | | | |
| Not Cooled | 8,864 | 1,895 | 2,026 | 1,623 | 1,195 | 711 | 662 | 506 | Q |
| 1 to 50 | 16,846 | 1,084 | 2,233 | 3,829 | 2,517 | 2,574 | 1,701 | 1,950 | 957 |
| 51 to 99 | 16,966 | 838 | 1,435 | 2,224 | 2,128 | 2,668 | 2,281 | 2,339 | 3,053 |
| 100 | 24,662 | 2,957 | 2,544 | 3,477 | 3,470 | 4,159 | 3,627 | 2,055 | 2,372 |
| Percent Lit When Open | | | | | | | | | |
| Zero | 173 | Q | Q | Q | Q | N | Q | N | N |
| 1 to 50 | 9,187 | 1,061 | 2,014 | 2,320 | 1,474 | 925 | 529 | 448 | 415 |
| 51 to 99 | 20,665 | 1,499 | 2,614 | 3,085 | 3,013 | 3,657 | 2,247 | 2,345 | 2,206 |
| 100 | 34,233 | 3,299 | 2,793 | 4,953 | 4,499 | 5,387 | 5,407 | 3,914 | 3,982 |
| Building Never Open/ Electricity Not Used | 3,080 | 849 | 811 | 762 | 278 | Q | Q | Q | Q |

Table B7. Building Size, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 |
| Heating Equipment (more than one may apply) | | | | | | | | | |
| Heat Pumps | 8,923 | 679 | 745 | 1,288 | 1,376 | 1,493 | 1,095 | 996 | 1,250 |
| Furnaces | 14,449 | 2,271 | 2,848 | 3,047 | 1,674 | 1,718 | 1,283 | 807 | 802 |
| Individual Space Heaters | 17,349 | 1,183 | 1,350 | 3,021 | 2,218 | 2,492 | 2,467 | 1,974 | 2,643 |
| District Heat | 5,534 | Q | Q | 307 | 617 | 905 | 883 | 963 | 1,698 |
| Boilers | 19,522 | 463 | 1,040 | 2,047 | 2,591 | 3,698 | 3,334 | 3,268 | 3,081 |
| Packaged Heating Units | 25,743 | 1,779 | 2,301 | 3,994 | 3,695 | 4,262 | 3,811 | 2,943 | 2,959 |
| Other | 4,073 | 250 | Q | 401 | 510 | 511 | 450 | 782 | 903 |
| Cooling Equipment (more than one may apply) | | | | | | | | | |
| Residential-Type Central | | | | | | | | | |
| Air Conditioners | 8,329 | 890 | 1,606 | 1,420 | 860 | 1,221 | 905 | 715 | 712 |
| Heat Pumps | 9,147 | 700 | 707 | 1,270 | 1,304 | 1,593 | 1,229 | 1,126 | 1,219 |
| Individual Air Conditioners | 14,276 | 962 | 1,396 | 2,482 | 2,140 | 2,057 | 1,834 | 2,032 | 1,373 |
| District Chilled Water | 2,750 | Q | Q | Q | 294 | 525 | 630 | 470 | 630 |
| Central Chillers | 12,909 | Q | Q | 307 | 919 | 1,989 | 2,331 | 2,963 | 4,223 |
| Packaged Air Conditioning | | | | | | | | | |
| Units | 36,527 | 2,613 | 3,197 | 6,031 | 5,120 | 6,164 | 5,217 | 4,106 | 4,080 |
| Swamp Coolers | 2,219 | 253 | 181 | 207 | 325 | 477 | 307 | Q | Q |
| Other | 1,312 | Q | Q | Q | 153 | Q | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | |
| Heating | 13,220 | 1,325 | 1,757 | 2,472 | 2,145 | 2,214 | 1,359 | 1,141 | 807 |
| Cooling | 17,390 | 1,399 | 1,638 | 3,402 | 2,614 | 2,709 | 1,809 | 2,032 | 1,787 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | | |
| Incandescent | 38,156 | 2,946 | 4,047 | 6,055 | 5,004 | 5,880 | 4,685 | 4,396 | 5,143 |
| Standard Fluorescent | 60,344 | 5,154 | 6,722 | 9,815 | 8,344 | 9,525 | 7,817 | 6,423 | 6,544 |
| Compact Fluorescent | 20,666 | 738 | 1,108 | 1,759 | 2,296 | 3,425 | 3,429 | 3,575 | 4,336 |
| High Intensity Discharge | 19,223 | 245 | 663 | 1,701 | 2,224 | 3,101 | 3,633 | 3,259 | 4,397 |
| Halogen | 17,926 | 600 | 991 | 1,996 | 1,611 | 2,929 | 3,241 | 2,677 | 3,882 |
| Other | 1,004 | Q | Q | Q | Q | Q | Q | Q | Q |
| Personal Computers | | | | | | | | | |
| None | 9,583 | 2,987 | 2,983 | 1,839 | 825 | 310 | 305 | 305 | Q |
| 1 to 4 | 13,853 | 2,351 | 2,964 | 4,383 | 2,133 | 947 | 807 | Q | Q |
| 5 to 9 | 6,528 | 936 | 752 | 1,520 | 1,439 | 1,240 | 396 | Q | Q |
| 10 to 19 | 7,514 | 387 | 1,147 | 1,432 | 1,259 | 1,393 | 830 | 730 | Q |
| 20 to 49 | 8,087 | Q | 366 | 1,303 | 1,662 | 1,757 | 1,657 | 692 | 540 |
| 50 to 99 | 5,867 | Q | Q | 578 | 1,227 | 1,708 | 957 | 813 | 557 |
| 100 to 249 | 6,818 | Q | Q | Q | 659 | 2,121 | 1,620 | 1,027 | 1,289 |
| 250 or More | 9,088 | N | N | N | Q | 635 | 1,698 | 2,874 | 3,774 |
| Photocopiers | | | | | | | | | |
| None | 21,631 | 4,851 | 5,062 | 4,841 | 2,878 | 1,974 | 1,016 | 704 | Q |
| One | 12,928 | 1,487 | 2,237 | 3,430 | 2,495 | 1,613 | 1,090 | 378 | Q |
| 2 to 4 | 15,620 | 427 | 737 | 2,348 | 2,770 | 3,819 | 2,543 | 1,998 | 978 |
| 5 to 9 | 5,384 | Q | Q | 394 | 643 | 1,200 | 1,234 | 1,038 | 665 |
| 10 or More | 11,774 | N | N | Q | 526 | 1,507 | 2,389 | 2,733 | 4,479 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | | |
| Laser Printers | 46,567 | 2,190 | 3,206 | 6,508 | 6,550 | 8,540 | 7,183 | 6,109 | 6,281 |
| FAX Machines | 54,764 | 3,594 | 4,931 | 8,093 | 7,773 | 9,563 | 7,786 | 6,425 | 6,599 |
| Medical Diagnostic Equipment | 2,493 | Q | Q | Q | 193 | 245 | 296 | 732 | 673 |

Table B7. Building Size, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|----------------------------|-----------------------------|------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------|
| | All Buildings | Building Size | | | | | | | |
| | | 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 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | |
| Commercial Food Preparation | 23,328 | 1,005 | 1,129 | 2,002 | 2,472 | 3,729 | 3,923 | 4,104 | 4,965 |
| Activities with Large Amounts of Hot Water | 21,793 | 760 | 1,063 | 2,331 | 3,158 | 3,346 | 3,547 | 3,666 | 3,922 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | |
| Multipaned Windows | 38,193 | 3,052 | 3,806 | 5,506 | 5,027 | 6,209 | 5,064 | 4,499 | 5,030 |
| Tinted, Reflective, or Shading Glass | 29,915 | 1,530 | 2,423 | 3,385 | 3,993 | 4,866 | 4,938 | 4,032 | 4,746 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | |
| Variable Air-Volume System | 19,387 | 634 | 1,058 | 1,309 | 2,115 | 3,430 | 3,350 | 3,077 | 4,414 |
| Economizer Cycle | 21,256 | 640 | 798 | 1,392 | 2,219 | 3,679 | 4,164 | 3,408 | 4,955 |
| HVAC Maintenance | 53,395 | 3,690 | 4,671 | 8,100 | 7,560 | 9,044 | 7,613 | 6,207 | 6,510 |
| Energy Management and Control System (EMCS) | 21,613 | 511 | 475 | 1,391 | 2,299 | 3,953 | 4,267 | 3,930 | 4,787 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | |
| Specular Reflectors | 19,994 | 1,171 | 1,389 | 1,970 | 2,384 | 3,285 | 2,837 | 3,087 | 3,870 |
| Electronic Ballasts | 42,035 | 2,736 | 4,044 | 5,620 | 5,468 | 6,903 | 6,366 | 5,248 | 5,650 |
| Skylights or Atriums | 18,286 | 556 | 977 | 1,949 | 2,251 | 2,745 | 2,765 | 2,898 | 4,144 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | |
| Heating | 39,969 | 4,018 | 5,522 | 6,731 | 5,788 | 6,269 | 5,007 | 3,315 | 3,318 |
| Cooling | 39,161 | 3,703 | 4,901 | 6,912 | 5,484 | 6,322 | 4,854 | 3,438 | 3,546 |
| Lighting | 51,083 | 5,227 | 6,819 | 9,236 | 7,153 | 8,069 | 6,268 | 4,265 | 4,046 |
| Office Equipment | 9,063 | Q | Q | 852 | 1,403 | 2,625 | 1,927 | 1,213 | 825 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B8. Year Constructed, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|--|--------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| All Buildings | 4,657 | 419 | 499 | 763 | 665 | 774 | 846 | 690 |
| Building Floorspace (Square Feet) | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 227 | 270 | 359 | 321 | 367 | 413 | 390 |
| 5,001 to 10,000 | 1,110 | 107 | 102 | 240 | 166 | 193 | 156 | 145 |
| 10,001 to 25,000 | 708 | 63 | 90 | 97 | 84 | 130 | 179 | 65 |
| 25,001 to 50,000 | 257 | 13 | 20 | 39 | 53 | 44 | 43 | 44 |
| 50,001 to 100,000 | 145 | 7 | 9 | 19 | 24 | 26 | 33 | 27 |
| 100,001 to 200,000 | 59 | Q | 5 | 5 | 12 | 8 | 15 | 12 |
| 200,001 to 500,000 | 23 | Q | 2 | 3 | 4 | 4 | 4 | 4 |
| Over 500,000 | 7 | Q | 1 | 1 | 1 | 2 | 2 | 1 |
| Principal Building Activity | | | | | | | | |
| Education | 327 | 18 | 32 | 71 | 69 | 53 | 37 | 47 |
| Food Sales | 174 | Q | Q | Q | Q | Q | Q | 50 |
| Food Service | 349 | Q | 48 | Q | 50 | 70 | 80 | Q |
| Health Care | 127 | Q | Q | 27 | 16 | 38 | 15 | 23 |
| Inpatient | 11 | Q | Q | 1 | 2 | 2 | 2 | Q |
| Outpatient | 116 | Q | Q | Q | Q | 36 | 14 | 23 |
| Lodging | 153 | Q | Q | 15 | 33 | 33 | 29 | 24 |
| Mercantile | 667 | 93 | 61 | 154 | 60 | 112 | 127 | 60 |
| Retail (Other Than Mall) | 534 | 92 | 46 | 140 | 44 | 78 | 88 | 46 |
| Enclosed and Strip Malls | 133 | Q | Q | 14 | 16 | 35 | 39 | 14 |
| Office | 739 | 72 | 55 | 96 | 96 | 115 | 169 | 135 |
| Public Assembly | 305 | 34 | 37 | 31 | 58 | 42 | 59 | 43 |
| Public Order and Safety | 72 | Q | Q | Q | Q | Q | Q | 5 |
| Religious Worship | 307 | 44 | Q | 76 | 47 | 58 | 27 | 33 |
| Service | 478 | Q | 78 | 89 | 66 | 89 | 88 | Q |
| Warehouse and Storage | 603 | 36 | 66 | 68 | 62 | 91 | 132 | 149 |
| Other | 102 | Q | Q | Q | 27 | Q | Q | Q |
| Vacant | 253 | 49 | 57 | 67 | 45 | Q | Q | Q |
| Floors | | | | | | | | |
| One | 2,879 | 88 | 209 | 478 | 461 | 568 | 547 | 529 |
| Two | 1,168 | 141 | 166 | 202 | 155 | 155 | 221 | 127 |
| Three | 420 | 136 | 81 | 72 | 31 | 38 | 45 | 16 |
| Four to Nine | 178 | 52 | 41 | 10 | 17 | 11 | 30 | 17 |
| Ten or More | 11 | Q | 2 | 1 | 2 | 2 | 3 | 1 |
| Census Region | | | | | | | | |
| Northeast | 686 | 126 | 65 | 138 | 97 | 77 | 122 | 62 |
| Midwest | 1,188 | 172 | 206 | 174 | 155 | 141 | 165 | 175 |
| South | 1,762 | 69 | 155 | 289 | 199 | 338 | 408 | 304 |
| West | 1,021 | 52 | 73 | 162 | 215 | 219 | 151 | 149 |
| Workers (main shift) | | | | | | | | |
| Fewer than 5 | 2,376 | 280 | 331 | 405 | 316 | 344 | 371 | 330 |
| 5 to 9 | 807 | 62 | 65 | 135 | 124 | 174 | 126 | 121 |
| 10 to 19 | 683 | 52 | 58 | 107 | 95 | 110 | 159 | 102 |
| 20 to 49 | 487 | 12 | 29 | 84 | 78 | 81 | 116 | 87 |
| 50 to 99 | 174 | 3 | 8 | 22 | 27 | 43 | 44 | 27 |
| 100 to 249 | 90 | Q | 5 | 7 | 21 | 15 | 19 | 16 |
| 250 or More | 39 | Q | 3 | 3 | 5 | 8 | 11 | 7 |
| Weekly Operating Hours | | | | | | | | |
| 39 or Fewer | 978 | 132 | 140 | 189 | 130 | 152 | 124 | 111 |
| 40 to 48 | 1,156 | 116 | 145 | 213 | 154 | 147 | 222 | 158 |
| 49 to 60 | 986 | 95 | 75 | 152 | 145 | 185 | 150 | 185 |
| 61 to 84 | 664 | 39 | 68 | 122 | 109 | 111 | 118 | 96 |
| 85 to 167 | 474 | 20 | 42 | 41 | 50 | 111 | 128 | 82 |
| Open Continuously | 398 | 17 | 29 | 46 | 77 | 67 | 104 | 58 |

Table B8. Year Constructed, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|--|--------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| Ownership and Occupancy | | | | | | | | |
| Nongovernment Owned | 4,135 | 384 | 436 | 670 | 581 | 684 | 761 | 619 |
| Owner Occupied | 2,801 | 256 | 291 | 450 | 377 | 465 | 532 | 431 |
| Nonowner Occupied | 1,099 | 94 | 130 | 159 | 172 | 201 | 195 | 148 |
| Unoccupied | 236 | Q | Q | 62 | Q | Q | Q | Q |
| Government Owned | 521 | 35 | 63 | 93 | 85 | 90 | 85 | 71 |
| Vacancy Status | | | | | | | | |
| Completely Vacant | 140 | Q | Q | Q | Q | Q | Q | Q |
| Mostly Vacant | 113 | Q | Q | Q | Q | Q | Q | Q |
| Partially Vacant | 697 | 71 | 64 | 89 | 89 | 104 | 134 | 146 |
| Not At All Vacant | 3,707 | 298 | 379 | 606 | 531 | 652 | 704 | 537 |
| Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 4,395 | 363 | 480 | 716 | 628 | 758 | 781 | 669 |
| Natural Gas | 2,670 | 291 | 329 | 426 | 406 | 481 | 389 | 349 |
| Fuel Oil | 434 | 53 | 55 | 109 | 65 | 37 | 70 | 45 |
| District Heat | 117 | 20 | 9 | 21 | 18 | Q | 16 | 15 |
| District Chilled Water | 50 | Q | 2 | 5 | 7 | Q | Q | 4 |
| Propane | 451 | Q | 45 | 65 | 72 | 66 | 89 | 94 |
| Other | 153 | Q | Q | 36 | 12 | 24 | 39 | Q |
| Energy End Uses (more than one may apply) | | | | | | | | |
| Buildings with Space Heating | 4,016 | 350 | 430 | 666 | 557 | 691 | 713 | 608 |
| Buildings with Cooling | 3,560 | 260 | 313 | 589 | 496 | 649 | 702 | 549 |
| Buildings with Water Heating | 3,239 | 277 | 311 | 493 | 493 | 592 | 623 | 450 |
| Buildings with Cooking | 857 | 69 | 85 | 115 | 131 | 161 | 173 | 124 |
| Buildings with Manufacturing | 151 | Q | Q | 28 | 19 | 32 | 37 | Q |
| Buildings with Electricity Generation | 172 | Q | 4 | 41 | 25 | 23 | 26 | 44 |
| Percent of Floorspace Heated | | | | | | | | |
| Not Heated | 641 | 69 | 69 | 97 | 108 | 83 | 133 | 82 |
| 1 to 50 | 576 | 48 | 79 | 93 | 58 | 107 | 113 | 78 |
| 51 to 99 | 627 | 56 | 103 | 86 | 75 | 86 | 111 | 109 |
| 100 | 2,813 | 246 | 248 | 487 | 424 | 498 | 490 | 421 |
| Percent of Floorspace Cooled | | | | | | | | |
| Not Cooled | 1,097 | 159 | 186 | 174 | 169 | 125 | 144 | 141 |
| 1 to 50 | 1,012 | 105 | 133 | 205 | 126 | 163 | 148 | 131 |
| 51 to 99 | 751 | 65 | 94 | 102 | 123 | 118 | 128 | 122 |
| 100 | 1,796 | 90 | 86 | 282 | 247 | 368 | 426 | 296 |
| Percent Lit When Open | | | | | | | | |
| Zero | 34 | N | N | Q | Q | Q | Q | Q |
| 1 to 50 | 835 | 122 | 152 | 159 | 91 | 113 | 108 | 91 |
| 51 to 99 | 1,228 | 121 | 107 | 202 | 218 | 237 | 199 | 144 |
| 100 | 2,096 | 99 | 175 | 315 | 283 | 374 | 464 | 387 |
| Building Never Open/ Electricity Not Used | 464 | 77 | 65 | 82 | 72 | 43 | 73 | Q |
| Heating Equipment (more than one may apply) | | | | | | | | |
| Heat Pumps | 492 | 6 | 23 | 95 | 39 | 102 | 124 | 103 |
| Furnaces | 1,460 | 163 | 206 | 251 | 191 | 205 | 237 | 208 |
| Individual Space Heaters | 894 | 79 | 107 | 180 | 110 | 172 | 127 | 119 |
| District Heat | 96 | 19 | 9 | 21 | 16 | Q | 11 | 4 |
| Boilers | 581 | 100 | 83 | 121 | 98 | 63 | 65 | 52 |
| Packaged Heating Units | 1,347 | 40 | 110 | 157 | 213 | 304 | 289 | 235 |
| Other | 185 | Q | Q | 33 | 19 | 35 | 59 | Q |

Table B8. Year Constructed, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|---|--------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| Cooling Equipment (more than one may apply) | | | | | | | | |
| Residential-Type Central | | | | | | | | |
| Air Conditioners | 676 | 78 | 75 | 129 | 39 | 105 | 143 | 107 |
| Heat Pumps | 485 | Q | 24 | 89 | 39 | 106 | 121 | 91 |
| Individual Air Conditioners | 799 | 101 | 124 | 178 | 102 | 112 | 96 | 86 |
| District Chilled Water | 50 | Q | 2 | 5 | 7 | Q | Q | 4 |
| Central Chillers | 130 | Q | 8 | 13 | 32 | 17 | 22 | 29 |
| Packaged Air Conditioning | | | | | | | | |
| Units | 1,953 | 92 | 143 | 275 | 332 | 398 | 421 | 291 |
| Swamp Coolers | 136 | Q | Q | 29 | 25 | 33 | 19 | 6 |
| Other | 49 | Q | Q | Q | Q | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | |
| Heating | 984 | 83 | 116 | 201 | 128 | 211 | 138 | 107 |
| Cooling | 1,085 | 83 | 112 | 216 | 157 | 239 | 186 | 93 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | |
| Incandescent | 2,193 | 221 | 283 | 334 | 307 | 391 | 415 | 242 |
| Standard Fluorescent | 3,778 | 307 | 376 | 622 | 525 | 674 | 721 | 552 |
| Compact Fluorescent | 607 | 44 | 58 | 56 | 122 | 81 | 123 | 121 |
| High Intensity Discharge | 430 | 41 | 31 | 54 | 48 | 69 | 94 | 93 |
| Halogen | 572 | 55 | 33 | 79 | 86 | 112 | 131 | 77 |
| Other | 58 | Q | Q | Q | Q | Q | Q | Q |
| Personal Computers | | | | | | | | |
| None | 1,617 | 187 | 222 | 297 | 209 | 243 | 253 | 206 |
| 1 to 4 | 1,636 | 156 | 194 | 274 | 245 | 297 | 272 | 198 |
| 5 to 9 | 542 | 33 | 28 | 80 | 68 | 117 | 100 | 117 |
| 10 to 19 | 403 | 27 | 12 | 43 | 66 | 53 | 108 | 94 |
| 20 to 49 | 247 | 10 | 23 | 49 | 35 | 32 | 57 | 40 |
| 50 to 99 | 105 | Q | 14 | 10 | 17 | 15 | 29 | 18 |
| 100 to 249 | 71 | 3 | 4 | 6 | 18 | 10 | 18 | 12 |
| 250 or More | 36 | Q | 3 | 4 | 6 | 7 | 9 | 5 |
| Photocopiers | | | | | | | | |
| None | 2,825 | 289 | 338 | 502 | 409 | 446 | 489 | 352 |
| One | 1,114 | 88 | 100 | 160 | 178 | 205 | 184 | 198 |
| 2 to 4 | 540 | 37 | 53 | 85 | 53 | 89 | 126 | 97 |
| 5 to 9 | 102 | Q | Q | 4 | 16 | 21 | 23 | 34 |
| 10 or More | 75 | 3 | 5 | Q | 9 | 13 | 24 | 10 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | |
| Laser Printers | 1,949 | 163 | 153 | 290 | 305 | 300 | 412 | 327 |
| FAX Machines | 2,807 | 222 | 251 | 430 | 383 | 481 | 564 | 476 |
| Medical Diagnostic Equipment | 86 | Q | Q | 23 | 8 | 28 | 14 | 11 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | |
| Commercial Food Preparation | 767 | 53 | 82 | 100 | 127 | 135 | 163 | 108 |
| Activities with Large Amounts of Hot Water | 698 | 46 | 92 | 84 | 120 | 154 | 131 | 70 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | |
| Multipaned Windows | 2,130 | 206 | 182 | 283 | 282 | 301 | 446 | 428 |
| Tinted, Reflective, or Shading Glass | 1,283 | 82 | 71 | 163 | 174 | 283 | 302 | 210 |

Table B8. Year Constructed, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|---|--------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| HVAC Conservation Features | | | | | | | | |
| (more than one may apply) | | | | | | | | |
| Variable Air-Volume System | 550 | 16 | 31 | 84 | 74 | 100 | 118 | 127 |
| Economizer Cycle | 567 | 23 | 18 | 40 | 121 | 98 | 138 | 129 |
| HVAC Maintenance | 2,786 | 233 | 250 | 440 | 405 | 461 | 577 | 420 |
| Energy Management and Control System (EMCS) | 460 | 17 | 35 | 52 | 110 | 55 | 102 | 90 |
| Lighting Conservation Features | | | | | | | | |
| (more than one may apply) | | | | | | | | |
| Specular Reflectors | 843 | 48 | 48 | 125 | 132 | 155 | 184 | 151 |
| Electronic Ballasts | 2,167 | 146 | 201 | 360 | 288 | 428 | 429 | 315 |
| Skylights or Atriums | 580 | 40 | 46 | 64 | 68 | 88 | 184 | 89 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B9. Year Constructed, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|--|--|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| All Buildings | 67,338 | 4,034 | 6,445 | 9,127 | 10,866 | 11,840 | 13,931 | 11,094 |
| Building Floorspace (Square Feet) | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 655 | 798 | 1,025 | 928 | 1,056 | 1,153 | 1,159 |
| 5,001 to 10,000 | 8,238 | 791 | 776 | 1,777 | 1,165 | 1,392 | 1,150 | 1,188 |
| 10,001 to 25,000 | 11,153 | 972 | 1,504 | 1,488 | 1,267 | 2,045 | 2,767 | 1,110 |
| 25,001 to 50,000 | 9,311 | 489 | 673 | 1,343 | 1,987 | 1,587 | 1,594 | 1,638 |
| 50,001 to 100,000 | 10,112 | 483 | 637 | 1,343 | 1,698 | 1,816 | 2,273 | 1,862 |
| 100,001 to 200,000 | 8,271 | Q | 727 | 789 | 1,593 | 1,147 | 2,088 | 1,662 |
| 200,001 to 500,000 | 6,851 | Q | 705 | 796 | 1,243 | 1,206 | 1,307 | 1,344 |
| Over 500,000 | 6,628 | Q | 624 | 565 | 987 | 1,593 | 1,599 | 1,131 |
| Principal Building Activity | | | | | | | | |
| Education | 8,651 | 278 | 1,138 | 1,831 | 2,035 | 1,411 | 719 | 1,239 |
| Food Sales | 994 | Q | Q | Q | Q | Q | Q | 355 |
| Food Service | 1,851 | Q | 265 | Q | 310 | 295 | 347 | Q |
| Health Care | 2,918 | Q | Q | 322 | 487 | 852 | 558 | 473 |
| Inpatient | 1,865 | Q | Q | 232 | 377 | 613 | 287 | Q |
| Outpatient | 1,053 | Q | Q | Q | Q | 238 | 271 | 319 |
| Lodging | 4,521 | Q | Q | 351 | 870 | 838 | 1,289 | 716 |
| Mercantile | 10,398 | 818 | 381 | 1,384 | 1,305 | 1,951 | 2,529 | 2,030 |
| Retail (Other Than Mall) | 4,766 | 773 | 242 | 886 | 517 | 509 | 700 | 1,139 |
| Enclosed and Strip Malls | 5,631 | Q | Q | 497 | 788 | 1,442 | 1,829 | 891 |
| Office | 12,044 | 702 | 1,051 | 1,155 | 1,685 | 2,036 | 3,586 | 1,830 |
| Public Assembly | 4,393 | 292 | 569 | 534 | 868 | 717 | 678 | 736 |
| Public Order and Safety | 1,168 | Q | Q | Q | Q | Q | Q | 227 |
| Religious Worship | 3,405 | 385 | Q | 641 | 612 | 718 | 418 | 357 |
| Service | 3,388 | Q | 629 | 541 | 608 | 645 | 515 | 336 |
| Warehouse and Storage | 10,477 | 380 | 1,092 | 1,265 | 1,247 | 1,793 | 2,620 | 2,079 |
| Other | 1,222 | Q | Q | Q | 355 | Q | Q | 367 |
| Vacant | 1,908 | 385 | 468 | 501 | 257 | Q | Q | Q |
| Floors | | | | | | | | |
| One | 26,800 | 464 | 1,455 | 3,683 | 4,466 | 5,156 | 5,946 | 5,632 |
| Two | 16,985 | 796 | 1,569 | 2,853 | 2,761 | 2,860 | 3,489 | 2,657 |
| Three | 8,928 | 1,439 | 1,376 | 1,328 | 1,163 | 1,339 | 1,309 | 974 |
| Four to Nine | 10,180 | 1,188 | 1,457 | 875 | 1,707 | 1,629 | 2,005 | 1,319 |
| Ten or More | 4,445 | Q | 589 | 388 | 770 | 857 | 1,183 | 512 |
| Census Region | | | | | | | | |
| Northeast | 12,360 | 1,392 | 1,619 | 2,030 | 2,050 | 1,823 | 2,070 | 1,376 |
| Midwest | 16,761 | 1,576 | 2,423 | 2,152 | 2,602 | 2,347 | 2,828 | 2,834 |
| South | 23,485 | 549 | 1,704 | 2,910 | 3,318 | 4,278 | 6,263 | 4,464 |
| West | 14,731 | 518 | 699 | 2,035 | 2,896 | 3,391 | 2,771 | 2,420 |
| Workers (main shift) | | | | | | | | |
| Fewer than 5 | 14,321 | 1,863 | 2,443 | 2,264 | 2,015 | 2,012 | 2,013 | 1,712 |
| 5 to 9 | 6,325 | 506 | 508 | 1,012 | 1,181 | 1,337 | 952 | 829 |
| 10 to 19 | 8,028 | 637 | 729 | 1,415 | 1,128 | 1,233 | 1,731 | 1,153 |
| 20 to 49 | 10,814 | 316 | 691 | 1,947 | 1,707 | 1,682 | 2,383 | 2,089 |
| 50 to 99 | 8,898 | 219 | 586 | 833 | 1,696 | 1,803 | 2,161 | 1,601 |
| 100 to 249 | 8,356 | 235 | 658 | 688 | 1,561 | 1,515 | 1,915 | 1,786 |
| 250 or More | 10,595 | Q | 830 | 968 | 1,579 | 2,259 | 2,776 | 1,925 |
| Weekly Operating Hours | | | | | | | | |
| 39 or Fewer | 6,596 | 803 | 1,182 | 1,292 | 967 | 1,035 | 807 | 511 |
| 40 to 48 | 13,105 | 951 | 1,896 | 2,095 | 2,027 | 1,853 | 2,511 | 1,771 |
| 49 to 60 | 14,200 | 967 | 1,209 | 2,083 | 2,171 | 2,586 | 2,892 | 2,292 |
| 61 to 84 | 12,458 | 565 | 672 | 1,613 | 2,092 | 2,482 | 2,847 | 2,186 |
| 85 to 167 | 9,116 | 274 | 611 | 934 | 1,482 | 1,812 | 2,021 | 1,981 |
| Open Continuously | 11,863 | 474 | 876 | 1,110 | 2,127 | 2,071 | 2,853 | 2,352 |

Table B9. Year Constructed, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|--|--|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| Ownership and Occupancy | | | | | | | | |
| Nongovernment Owned | 54,994 | 3,456 | 4,812 | 7,053 | 8,122 | 9,907 | 12,507 | 9,138 |
| Owner Occupied | 37,785 | 2,479 | 3,575 | 4,879 | 5,495 | 6,795 | 8,364 | 6,198 |
| Nonowner Occupied | 15,596 | 728 | 1,081 | 1,737 | 2,419 | 2,960 | 3,855 | 2,817 |
| Unoccupied | 1,613 | Q | Q | 437 | Q | Q | Q | Q |
| Government Owned | 12,343 | 579 | 1,633 | 2,074 | 2,745 | 1,933 | 1,424 | 1,956 |
| Vacancy Status | | | | | | | | |
| Completely Vacant | 953 | Q | Q | Q | Q | Q | Q | Q |
| Mostly Vacant | 956 | Q | Q | Q | Q | Q | Q | Q |
| Partially Vacant | 15,520 | 932 | 1,360 | 1,583 | 2,382 | 2,646 | 3,802 | 2,817 |
| Not At All Vacant | 49,910 | 2,718 | 4,617 | 7,043 | 8,227 | 9,028 | 10,057 | 8,219 |
| Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 65,716 | 3,714 | 6,281 | 8,794 | 10,686 | 11,750 | 13,485 | 11,007 |
| Natural Gas | 45,525 | 2,766 | 4,257 | 6,040 | 7,512 | 8,080 | 8,794 | 8,076 |
| Fuel Oil | 13,285 | 745 | 1,060 | 1,782 | 2,349 | 2,446 | 2,795 | 2,108 |
| District Heat | 5,891 | 486 | 764 | 1,088 | 1,406 | 788 | 682 | 677 |
| District Chilled Water | 2,750 | Q | 134 | 406 | 633 | 492 | 424 | 407 |
| Propane | 6,290 | Q | 473 | 748 | 1,220 | 1,033 | 1,333 | 1,295 |
| Other | 2,322 | Q | Q | 433 | 353 | 352 | 499 | 353 |
| Energy End Uses (more than one may apply) | | | | | | | | |
| Buildings with Space Heating | 61,602 | 3,593 | 5,559 | 8,402 | 9,966 | 10,916 | 12,566 | 10,600 |
| Buildings with Cooling | 58,474 | 2,911 | 4,383 | 7,601 | 9,325 | 11,050 | 12,849 | 10,355 |
| Buildings with Water Heating | 56,115 | 3,130 | 4,644 | 7,154 | 9,421 | 10,182 | 12,137 | 9,446 |
| Buildings with Cooking | 24,681 | 1,091 | 2,232 | 3,195 | 4,178 | 4,551 | 5,030 | 4,403 |
| Buildings with Manufacturing | 3,126 | Q | Q | 535 | 409 | 555 | 744 | 485 |
| Buildings with Electricity Generation | 11,882 | 267 | 520 | 1,205 | 2,067 | 2,438 | 2,644 | 2,741 |
| Percent of Floorspace Heated | | | | | | | | |
| Not Heated | 5,736 | 441 | 886 | 725 | 901 | 924 | 1,366 | 493 |
| 1 to 50 | 7,593 | 507 | 834 | 1,304 | 1,038 | 1,458 | 1,254 | 1,198 |
| 51 to 99 | 10,745 | 798 | 1,249 | 1,178 | 1,891 | 1,670 | 2,181 | 1,777 |
| 100 | 43,264 | 2,288 | 3,476 | 5,920 | 7,037 | 7,789 | 9,131 | 7,625 |
| Percent of Floorspace Cooled | | | | | | | | |
| Not Cooled | 8,864 | 1,123 | 2,062 | 1,526 | 1,542 | 790 | 1,083 | 739 |
| 1 to 50 | 16,846 | 1,237 | 1,936 | 3,068 | 2,406 | 2,812 | 2,833 | 2,553 |
| 51 to 99 | 16,966 | 1,022 | 1,234 | 1,796 | 3,235 | 2,998 | 3,584 | 3,096 |
| 100 | 24,662 | 653 | 1,213 | 2,737 | 3,683 | 5,240 | 6,431 | 4,706 |
| Percent Lit When Open | | | | | | | | |
| Zero | 173 | N | N | Q | Q | Q | Q | Q |
| 1 to 50 | 9,187 | 1,130 | 1,452 | 1,720 | 1,162 | 1,448 | 1,318 | 957 |
| 51 to 99 | 20,665 | 1,290 | 1,879 | 2,856 | 3,765 | 3,832 | 3,801 | 3,242 |
| 100 | 34,233 | 1,129 | 2,523 | 3,930 | 5,552 | 6,276 | 8,153 | 6,670 |
| Building Never Open/ Electricity Not Used | 3,080 | 486 | 590 | 605 | 371 | 240 | 609 | Q |
| Heating Equipment (more than one may apply) | | | | | | | | |
| Heat Pumps | 8,923 | 251 | 449 | 1,064 | 1,129 | 1,651 | 2,583 | 1,796 |
| Furnaces | 14,449 | 1,214 | 1,552 | 2,082 | 2,053 | 2,235 | 2,927 | 2,387 |
| Individual Space Heaters | 17,349 | 1,042 | 1,772 | 2,551 | 2,496 | 3,345 | 3,428 | 2,715 |
| District Heat | 5,534 | 480 | 764 | 1,065 | 1,351 | 769 | 606 | 499 |
| Boilers | 19,522 | 1,397 | 2,264 | 2,762 | 4,231 | 3,275 | 3,114 | 2,479 |
| Packaged Heating Units | 25,743 | 428 | 1,476 | 2,917 | 3,961 | 4,899 | 6,379 | 5,684 |
| Other | 4,073 | Q | Q | 563 | 560 | 684 | 1,012 | 786 |

Table B9. Year Constructed, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|---|--|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| Cooling Equipment (more than one may apply) | | | | | | | | |
| Residential-Type Central | | | | | | | | |
| Air Conditioners | 8,329 | 677 | 657 | 1,239 | 957 | 1,621 | 1,904 | 1,274 |
| Heat Pumps | 9,147 | 284 | 551 | 984 | 1,119 | 1,793 | 2,711 | 1,705 |
| Individual Air Conditioners | 14,276 | 1,206 | 2,074 | 2,833 | 2,296 | 2,237 | 2,155 | 1,476 |
| District Chilled Water | 2,750 | Q | 134 | 406 | 633 | 492 | 424 | 407 |
| Central Chillers | 12,909 | 254 | 984 | 1,329 | 2,765 | 2,766 | 2,584 | 2,229 |
| Packaged Air Conditioning | | | | | | | | |
| Units | 36,527 | 1,244 | 2,367 | 4,427 | 5,686 | 7,001 | 8,978 | 6,825 |
| Swamp Coolers | 2,219 | Q | Q | 261 | 527 | 499 | 345 | 339 |
| Other | 1,312 | Q | Q | Q | Q | 316 | 348 | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | |
| Heating | 13,220 | 756 | 1,212 | 2,191 | 2,164 | 3,100 | 3,002 | 794 |
| Cooling | 17,390 | 1,003 | 1,602 | 2,735 | 3,161 | 4,254 | 3,692 | 943 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | |
| Incandescent | 38,156 | 2,533 | 3,909 | 4,951 | 6,268 | 7,089 | 8,028 | 5,377 |
| Standard Fluorescent | 60,344 | 3,246 | 5,417 | 8,031 | 9,939 | 11,099 | 12,619 | 9,993 |
| Compact Fluorescent | 20,666 | 1,040 | 1,423 | 2,019 | 3,445 | 3,824 | 4,755 | 4,160 |
| High Intensity Discharge | 19,223 | 682 | 1,530 | 1,981 | 2,986 | 3,413 | 4,166 | 4,464 |
| Halogen | 17,926 | 871 | 921 | 1,861 | 2,916 | 3,511 | 4,272 | 3,574 |
| Other | 1,004 | Q | Q | Q | Q | Q | Q | 392 |
| Personal Computers | | | | | | | | |
| None | 9,583 | 1,097 | 1,546 | 1,772 | 1,191 | 1,404 | 1,476 | 1,098 |
| 1 to 4 | 13,853 | 1,281 | 1,840 | 2,174 | 2,357 | 2,592 | 2,040 | 1,569 |
| 5 to 9 | 6,528 | 264 | 334 | 936 | 837 | 1,523 | 1,443 | 1,191 |
| 10 to 19 | 7,514 | 484 | 306 | 826 | 1,279 | 1,112 | 1,860 | 1,647 |
| 20 to 49 | 8,087 | 258 | 622 | 1,223 | 1,021 | 1,149 | 2,014 | 1,801 |
| 50 to 99 | 5,867 | Q | 549 | 640 | 1,012 | 890 | 1,341 | 1,276 |
| 100 to 249 | 6,818 | 245 | 405 | 566 | 1,480 | 1,260 | 1,616 | 1,245 |
| 250 or More | 9,088 | Q | 843 | 990 | 1,690 | 1,910 | 2,142 | 1,267 |
| Photocopiers | | | | | | | | |
| None | 21,631 | 1,907 | 2,625 | 3,747 | 3,396 | 3,578 | 3,689 | 2,690 |
| One | 12,928 | 918 | 1,349 | 1,660 | 2,163 | 2,240 | 2,240 | 2,358 |
| 2 to 4 | 15,620 | 741 | 1,116 | 2,176 | 2,389 | 2,707 | 3,571 | 2,921 |
| 5 to 9 | 5,384 | Q | Q | 319 | 1,119 | 921 | 1,350 | 1,373 |
| 10 or More | 11,774 | 362 | 1,159 | 1,225 | 1,800 | 2,394 | 3,081 | 1,752 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | |
| Laser Printers | 46,567 | 2,181 | 3,288 | 5,675 | 7,867 | 8,341 | 10,449 | 8,765 |
| FAX Machines | 54,764 | 2,786 | 4,442 | 6,835 | 8,827 | 10,029 | 11,961 | 9,883 |
| Medical Diagnostic Equipment | 2,493 | Q | Q | 296 | 439 | 786 | 507 | 388 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | |
| Commercial Food Preparation | 23,328 | 956 | 2,138 | 3,051 | 4,028 | 4,209 | 4,827 | 4,120 |
| Activities with Large Amounts of Hot Water | 21,793 | 802 | 1,858 | 2,614 | 4,123 | 4,123 | 4,530 | 3,743 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | |
| Multipaned Windows | 38,193 | 2,294 | 3,049 | 4,225 | 5,155 | 6,395 | 9,060 | 8,016 |
| Tinted, Reflective, or Shading Glass | 29,915 | 931 | 1,467 | 2,854 | 4,322 | 6,087 | 7,919 | 6,335 |

Table B9. Year Constructed, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|---|--|------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | All Buildings | Year Constructed | | | | | | |
| | | 1919 or Before | 1920 to 1945 | 1946 to 1959 | 1960 to 1969 | 1970 to 1979 | 1980 to 1989 | 1990 to 1999 |
| HVAC Conservation Features | | | | | | | | |
| (more than one may apply) | | | | | | | | |
| Variable Air-Volume System | 19,387 | 540 | 960 | 1,593 | 3,238 | 3,718 | 4,666 | 4,672 |
| Economizer Cycle | 21,256 | 628 | 1,103 | 1,811 | 3,718 | 4,380 | 5,053 | 4,563 |
| HVAC Maintenance | 53,395 | 2,669 | 4,242 | 6,658 | 8,749 | 9,669 | 11,743 | 9,665 |
| Energy Management and Control System (EMCS) | 21,613 | 509 | 1,566 | 2,243 | 4,020 | 3,791 | 4,409 | 5,074 |
| Lighting Conservation Features | | | | | | | | |
| (more than one may apply) | | | | | | | | |
| Specular Reflectors | 19,994 | 728 | 1,380 | 2,339 | 2,825 | 3,887 | 4,724 | 4,111 |
| Electronic Ballasts | 42,035 | 1,828 | 3,472 | 5,236 | 6,649 | 8,174 | 8,862 | 7,815 |
| Skylights or Atriums | 18,286 | 803 | 1,211 | 1,744 | 2,549 | 3,062 | 5,254 | 3,664 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B10. Employment Size Category, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|--|--------------------------------|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 | 4,657 | 2,376 | 807 | 683 | 487 | 174 | 90 | 39 |
| Building Floorspace (Square Feet) | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,567 | 482 | 226 | 66 | Q | Q | N |
| 5,001 to 10,000 | 1,110 | 511 | 180 | 249 | 144 | Q | Q | N |
| 10,001 to 25,000 | 708 | 250 | 105 | 146 | 157 | 46 | Q | Q |
| 25,001 to 50,000 | 257 | 37 | 32 | 47 | 75 | 46 | 18 | Q |
| 50,001 to 100,000 | 145 | 7 | 6 | 12 | 36 | 45 | 29 | 10 |
| 100,001 to 200,000 | 59 | 2 | 3 | Q | 7 | 15 | 18 | 12 |
| 200,001 to 500,000 | 23 | Q | Q | Q | 2 | 2 | 7 | 10 |
| Over 500,000 | 7 | Q | N | Q | Q | Q | 1 | 5 |
| Principal Building Activity | | | | | | | | |
| Education | 327 | 85 | 59 | 73 | 64 | 32 | 11 | 4 |
| Food Sales | 174 | 147 | Q | Q | 4 | Q | Q | Q |
| Food Service | 349 | 111 | 77 | 107 | 46 | Q | Q | N |
| Health Care | 127 | Q | Q | Q | 13 | 12 | 5 | 4 |
| Inpatient | 11 | N | Q | Q | Q | Q | 2 | 3 |
| Outpatient | 116 | Q | Q | Q | 10 | Q | 3 | Q |
| Lodging | 153 | 85 | 20 | 20 | 14 | 10 | 4 | Q |
| Mercantile | 667 | 321 | 124 | 99 | 70 | 32 | 18 | 3 |
| Retail (Other Than Mall) | 534 | 319 | 102 | 63 | 35 | 5 | Q | Q |
| Enclosed and Strip Malls | 133 | Q | Q | 36 | 35 | 26 | 9 | 3 |
| Office | 739 | 205 | 183 | 153 | 109 | 36 | 29 | 23 |
| Public Assembly | 305 | 198 | 48 | 23 | 22 | 6 | Q | Q |
| Public Order and Safety | 72 | Q | Q | Q | 28 | Q | Q | Q |
| Religious Worship | 307 | 222 | 46 | 19 | 17 | Q | Q | Q |
| Service | 478 | 271 | 107 | 38 | 51 | 9 | Q | Q |
| Warehouse and Storage | 603 | 389 | 81 | 73 | 32 | 21 | 6 | 2 |
| Other | 102 | 46 | Q | Q | Q | Q | Q | Q |
| Vacant | 253 | 244 | Q | Q | Q | Q | N | Q |
| Year Constructed | | | | | | | | |
| 1919 or Before | 419 | 280 | 62 | 52 | 12 | 3 | Q | Q |
| 1920 to 1945 | 499 | 331 | 65 | 58 | 29 | 8 | 5 | 3 |
| 1946 to 1959 | 763 | 405 | 135 | 107 | 84 | 22 | 7 | 3 |
| 1960 to 1969 | 665 | 316 | 124 | 95 | 78 | 27 | 21 | 5 |
| 1970 to 1979 | 774 | 344 | 174 | 110 | 81 | 43 | 15 | 8 |
| 1980 to 1989 | 846 | 371 | 126 | 159 | 116 | 44 | 19 | 11 |
| 1990 to 1999 | 690 | 330 | 121 | 102 | 87 | 27 | 16 | 7 |
| Floors | | | | | | | | |
| One | 2,879 | 1,591 | 497 | 407 | 271 | 78 | 31 | 5 |
| Two | 1,168 | 538 | 220 | 189 | 147 | 50 | 18 | 6 |
| Three | 420 | 194 | 71 | 62 | 42 | 26 | 20 | 4 |
| Four to Nine | 178 | 52 | 19 | 26 | 27 | 18 | 19 | 16 |
| Ten or More | 11 | Q | Q | Q | Q | Q | 2 | 8 |
| Census Region | | | | | | | | |
| Northeast | 686 | 271 | 163 | 114 | 87 | 30 | 16 | 5 |
| Midwest | 1,188 | 668 | 224 | 136 | 95 | 32 | 24 | 9 |
| South | 1,762 | 970 | 220 | 273 | 204 | 51 | 32 | 12 |
| West | 1,021 | 468 | 199 | 160 | 101 | 61 | 19 | 12 |
| Weekly Operating Hours | | | | | | | | |
| 39 or Fewer | 978 | 806 | 93 | 33 | 41 | Q | Q | Q |
| 40 to 48 | 1,156 | 550 | 219 | 205 | 123 | 36 | 18 | 4 |
| 49 to 60 | 986 | 377 | 229 | 202 | 98 | 43 | 26 | 11 |
| 61 to 84 | 664 | 251 | 152 | 113 | 87 | 36 | 17 | 8 |
| 85 to 167 | 474 | 183 | 78 | 86 | 75 | 34 | 13 | 5 |
| Open Continuously | 398 | 209 | 35 | 43 | 63 | 23 | 14 | 11 |

Table B10. Employment Size Category, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|--|--------------------------------|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 |
| Ownership and Occupancy | | | | | | | | |
| Nongovernment Owned | 4,135 | 2,187 | 709 | 587 | 413 | 135 | 73 | 33 |
| Owner Occupied | 2,801 | 1,463 | 489 | 435 | 279 | 64 | 48 | 24 |
| Nonowner Occupied | 1,099 | 488 | 220 | 152 | 133 | 72 | 25 | 9 |
| Unoccupied | 236 | 236 | N | N | N | N | N | N |
| Government Owned | 521 | 189 | 99 | 96 | 75 | 39 | 18 | 6 |
| Vacancy Status | | | | | | | | |
| Completely Vacant | 140 | 140 | N | N | N | N | N | N |
| Mostly Vacant | 113 | 104 | Q | Q | Q | Q | N | Q |
| Partially Vacant | 697 | 351 | 121 | 73 | 78 | 35 | 26 | 14 |
| Not At All Vacant | 3,707 | 1,781 | 686 | 609 | 404 | 138 | 64 | 26 |
| Number of Establishments | | | | | | | | |
| One | 3,528 | 1,891 | 610 | 520 | 344 | 89 | 54 | 19 |
| 2 to 5 | 688 | 208 | 193 | 149 | 92 | 30 | 12 | 5 |
| 6 to 10 | 114 | Q | Q | 13 | 41 | 27 | 9 | 3 |
| 11 to 20 | 48 | Q | Q | Q | 10 | 22 | 10 | 4 |
| More than 20 | 27 | Q | Q | Q | Q | 6 | 5 | 8 |
| Currently Unoccupied | 251 | 251 | N | N | N | N | N | N |
| Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 4,395 | 2,121 | 800 | 683 | 487 | 174 | 90 | 39 |
| Natural Gas | 2,670 | 1,151 | 560 | 424 | 321 | 118 | 67 | 28 |
| Fuel Oil | 434 | 182 | 95 | 54 | 54 | 17 | 18 | 15 |
| District Heat | 117 | 38 | 18 | 15 | 12 | 19 | 9 | 7 |
| District Chilled Water | 50 | Q | Q | Q | 3 | 10 | 4 | 5 |
| Propane | 451 | 215 | 71 | 74 | 73 | 11 | 6 | 2 |
| Other | 153 | 83 | Q | Q | 23 | 5 | Q | 1 |
| Energy End Uses (more than one may apply) | | | | | | | | |
| Buildings with Space Heating | 4,016 | 1,835 | 773 | 667 | 456 | 166 | 81 | 38 |
| Buildings with Cooling | 3,560 | 1,513 | 681 | 636 | 433 | 169 | 88 | 39 |
| Buildings with Water Heating | 3,239 | 1,312 | 643 | 586 | 417 | 159 | 85 | 36 |
| Buildings with Cooking | 857 | 287 | 131 | 172 | 154 | 65 | 30 | 18 |
| Buildings with Manufacturing | 151 | Q | 24 | 31 | 29 | 12 | 3 | 2 |
| Buildings with Electricity Generation | 172 | Q | 11 | 19 | 49 | 19 | 23 | 16 |
| Percent of Floorspace Heated | | | | | | | | |
| Not Heated | 641 | 541 | 34 | 16 | 32 | 8 | Q | Q |
| 1 to 50 | 576 | 326 | 155 | 57 | 21 | 14 | 2 | 1 |
| 51 to 99 | 627 | 332 | 77 | 95 | 86 | 21 | 10 | 7 |
| 100 | 2,813 | 1,176 | 541 | 515 | 349 | 132 | 69 | 31 |
| Percent of Floorspace Cooled | | | | | | | | |
| Not Cooled | 1,097 | 862 | 126 | 47 | 54 | 5 | Q | Q |
| 1 to 50 | 1,012 | 416 | 270 | 170 | 99 | 36 | 19 | 3 |
| 51 to 99 | 751 | 314 | 89 | 152 | 106 | 50 | 28 | 13 |
| 100 | 1,796 | 784 | 322 | 314 | 228 | 83 | 42 | 23 |
| Percent Lit When Open | | | | | | | | |
| Zero | 34 | Q | Q | Q | N | N | N | N |
| 1 to 50 | 835 | 558 | 135 | 102 | 32 | 7 | Q | Q |
| 51 to 99 | 1,228 | 487 | 216 | 210 | 190 | 78 | 35 | 12 |
| 100 | 2,096 | 865 | 442 | 354 | 264 | 90 | 54 | 27 |
| Building Never Open/ Electricity Not Used | 464 | 441 | Q | Q | N | N | N | N |

Table B10. Employment Size Category, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|---|--------------------------------|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 |
| Heating Equipment (more than one may apply) | | | | | | | | |
| Heat Pumps | 492 | 162 | 73 | 131 | 81 | 28 | 11 | 6 |
| Furnaces | 1,460 | 742 | 370 | 164 | 141 | 24 | 17 | 3 |
| Individual Space Heaters | 894 | 419 | 188 | 125 | 86 | 46 | 20 | 10 |
| District Heat | 96 | 30 | 14 | 10 | 12 | 15 | 8 | 7 |
| Boilers | 581 | 191 | 108 | 109 | 83 | 41 | 31 | 18 |
| Packaged Heating Units | 1,347 | 504 | 204 | 290 | 210 | 84 | 40 | 15 |
| Other | 185 | 105 | 25 | 12 | 18 | 14 | 5 | 5 |
| Cooling Equipment (more than one may apply) | | | | | | | | |
| Residential-Type Central | | | | | | | | |
| Air Conditioners | 676 | 339 | 133 | 101 | 69 | 18 | 14 | 3 |
| Heat Pumps | 485 | 169 | 68 | 122 | 79 | 29 | 10 | 8 |
| Individual Air Conditioners | 799 | 350 | 163 | 146 | 61 | 44 | 27 | 7 |
| District Chilled Water | 50 | Q | Q | Q | 3 | 10 | 4 | 5 |
| Central Chillers | 130 | 28 | 9 | 11 | 22 | 18 | 21 | 20 |
| Packaged Air Conditioning | | | | | | | | |
| Units | 1,953 | 724 | 354 | 383 | 295 | 118 | 54 | 24 |
| Swamp Coolers | 136 | 69 | 26 | Q | 13 | 5 | 4 | 1 |
| Other | 49 | Q | Q | Q | 7 | Q | 3 | 1 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | |
| Incandescent | 2,193 | 986 | 391 | 373 | 258 | 102 | 56 | 26 |
| Standard Fluorescent | 3,778 | 1,681 | 737 | 627 | 442 | 165 | 88 | 39 |
| Compact Fluorescent | 607 | 159 | 105 | 112 | 133 | 43 | 32 | 23 |
| High Intensity Discharge | 430 | 153 | 57 | 61 | 76 | 45 | 22 | 14 |
| Halogen | 572 | 176 | 105 | 84 | 120 | 40 | 31 | 17 |
| Other | 58 | Q | Q | Q | Q | Q | Q | Q |
| Personal Computers | | | | | | | | |
| None | 1,617 | 1,326 | 190 | 72 | Q | Q | Q | Q |
| 1 to 4 | 1,636 | 941 | 338 | 218 | 111 | 15 | Q | Q |
| 5 to 9 | 542 | 59 | 207 | 171 | 91 | 12 | Q | Q |
| 10 to 19 | 403 | Q | 63 | 174 | 89 | 36 | 6 | Q |
| 20 to 49 | 247 | Q | Q | 38 | 134 | 40 | 12 | 2 |
| 50 to 99 | 105 | Q | Q | Q | 33 | 42 | 16 | 2 |
| 100 to 249 | 71 | Q | Q | Q | 6 | 22 | 32 | 7 |
| 250 or More | 36 | Q | N | Q | Q | 3 | 6 | 26 |
| Photocopiers | | | | | | | | |
| None | 2,825 | 1,881 | 488 | 248 | 157 | 28 | 21 | 2 |
| One | 1,114 | 419 | 242 | 281 | 135 | 32 | 3 | Q |
| 2 to 4 | 540 | 69 | 76 | 149 | 152 | 66 | 25 | 4 |
| 5 to 9 | 102 | Q | Q | Q | 40 | 25 | 21 | 5 |
| 10 or More | 75 | Q | Q | Q | Q | 23 | 21 | 28 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | |
| Laser Printers | 1,949 | 511 | 370 | 418 | 373 | 156 | 83 | 38 |
| FAX Machines | 2,807 | 926 | 591 | 573 | 422 | 166 | 89 | 39 |
| Medical Diagnostic Equipment | 86 | Q | Q | Q | 10 | Q | 5 | 4 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | |
| Specular Reflectors | 843 | 295 | 150 | 168 | 125 | 53 | 31 | 20 |
| Electronic Ballasts | 2,167 | 891 | 400 | 390 | 272 | 124 | 57 | 33 |
| Skylights or Atriums | 580 | 238 | 70 | 102 | 86 | 49 | 23 | 12 |

Table B10. Employment Size Category, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|---|--------------------------------|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | |
| Heating | 2,862 | 1,270 | 583 | 510 | 312 | 116 | 49 | 23 |
| Cooling | 2,622 | 1,055 | 556 | 507 | 301 | 117 | 62 | 23 |
| Lighting | 3,675 | 1,671 | 740 | 611 | 402 | 148 | 75 | 27 |
| Office Equipment | 184 | Q | Q | 30 | 73 | 45 | 20 | 8 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B11. Employment Size Category, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|--|--|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 | 67,338 | 14,321 | 6,325 | 8,028 | 10,814 | 8,898 | 8,356 | 10,595 |
| Building Floorspace (Square Feet) | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 4,230 | 1,502 | 791 | 235 | Q | Q | N |
| 5,001 to 10,000 | 8,238 | 3,748 | 1,331 | 1,792 | 1,174 | Q | Q | N |
| 10,001 to 25,000 | 11,153 | 3,922 | 1,557 | 2,263 | 2,510 | 819 | Q | Q |
| 25,001 to 50,000 | 9,311 | 1,361 | 1,098 | 1,647 | 2,759 | 1,690 | 692 | Q |
| 50,001 to 100,000 | 10,112 | 430 | 444 | 799 | 2,437 | 3,172 | 2,067 | 762 |
| 100,001 to 200,000 | 8,271 | 356 | 350 | Q | 955 | 2,000 | 2,552 | 1,767 |
| 200,001 to 500,000 | 6,851 | Q | Q | Q | 635 | 598 | 1,927 | 3,015 |
| Over 500,000 | 6,628 | Q | N | Q | Q | Q | 979 | 4,977 |
| Principal Building Activity | | | | | | | | |
| Education | 8,651 | 420 | 516 | 983 | 2,161 | 2,258 | 1,603 | 710 |
| Food Sales | 994 | 482 | Q | Q | 159 | Q | Q | Q |
| Food Service | 1,851 | 326 | 285 | 718 | 346 | Q | Q | N |
| Health Care | 2,918 | Q | Q | Q | 212 | 280 | 521 | 1,529 |
| Inpatient | 1,865 | N | Q | Q | Q | Q | 334 | 1,371 |
| Outpatient | 1,053 | Q | Q | Q | 150 | 198 | 187 | Q |
| Lodging | 4,521 | 897 | 482 | 672 | 973 | 540 | 618 | Q |
| Mercantile | 10,398 | 1,572 | 1,035 | 1,199 | 1,734 | 1,666 | 1,518 | 1,673 |
| Retail (Other Than Mall) | 4,766 | 1,525 | 786 | 826 | 767 | 442 | 320 | Q |
| Enclosed and Strip Malls | 5,631 | Q | Q | 373 | 967 | 1,224 | 1,198 | 1,572 |
| Office | 12,044 | 744 | 790 | 959 | 1,505 | 1,312 | 1,955 | 4,778 |
| Public Assembly | 4,393 | 1,451 | 701 | 360 | 543 | 623 | 407 | Q |
| Public Order and Safety | 1,168 | Q | Q | Q | 329 | Q | Q | Q |
| Religious Worship | 3,405 | 1,962 | 561 | 499 | 279 | Q | Q | Q |
| Service | 3,388 | 1,058 | 483 | 415 | 728 | 313 | Q | Q |
| Warehouse and Storage | 10,477 | 3,177 | 1,089 | 1,485 | 1,694 | 1,336 | 1,004 | 692 |
| Other | 1,222 | 219 | Q | Q | Q | Q | Q | Q |
| Vacant | 1,908 | 1,723 | Q | Q | Q | Q | N | Q |
| Year Constructed | | | | | | | | |
| 1919 or Before | 4,034 | 1,863 | 506 | 637 | 316 | 219 | 235 | Q |
| 1920 to 1945 | 6,445 | 2,443 | 508 | 729 | 691 | 586 | 658 | 830 |
| 1946 to 1959 | 9,127 | 2,264 | 1,012 | 1,415 | 1,947 | 833 | 688 | 968 |
| 1960 to 1969 | 10,866 | 2,015 | 1,181 | 1,128 | 1,707 | 1,696 | 1,561 | 1,579 |
| 1970 to 1979 | 11,840 | 2,012 | 1,337 | 1,233 | 1,682 | 1,803 | 1,515 | 2,259 |
| 1980 to 1989 | 13,931 | 2,013 | 952 | 1,731 | 2,383 | 2,161 | 1,915 | 2,776 |
| 1990 to 1999 | 11,094 | 1,712 | 829 | 1,153 | 2,089 | 1,601 | 1,786 | 1,925 |
| Floors | | | | | | | | |
| One | 26,800 | 7,746 | 3,164 | 3,867 | 4,996 | 3,639 | 2,481 | 908 |
| Two | 16,985 | 3,820 | 1,890 | 2,205 | 3,287 | 2,472 | 1,818 | 1,493 |
| Three | 8,928 | 1,798 | 953 | 1,200 | 1,369 | 1,265 | 1,430 | 912 |
| Four to Nine | 10,180 | 867 | 305 | 730 | 1,140 | 1,385 | 2,044 | 3,708 |
| Ten or More | 4,445 | Q | Q | Q | Q | Q | 583 | 3,575 |
| Census Region | | | | | | | | |
| Northeast | 12,360 | 1,906 | 1,372 | 1,472 | 1,574 | 1,814 | 1,702 | 2,519 |
| Midwest | 16,761 | 4,033 | 1,689 | 1,930 | 2,575 | 1,876 | 2,228 | 2,430 |
| South | 23,485 | 5,579 | 1,730 | 2,935 | 4,174 | 2,876 | 2,856 | 3,335 |
| West | 14,731 | 2,802 | 1,533 | 1,690 | 2,492 | 2,332 | 1,570 | 2,312 |
| Weekly Operating Hours | | | | | | | | |
| 39 or Fewer | 6,596 | 5,132 | 367 | 215 | 511 | Q | Q | Q |
| 40 to 48 | 13,105 | 3,477 | 1,676 | 1,973 | 2,721 | 1,729 | 863 | 666 |
| 49 to 60 | 14,200 | 1,920 | 1,838 | 2,379 | 2,189 | 2,079 | 1,719 | 2,075 |
| 61 to 84 | 12,458 | 1,344 | 1,117 | 1,334 | 2,124 | 1,945 | 1,930 | 2,663 |
| 85 to 167 | 9,116 | 1,128 | 723 | 1,043 | 1,586 | 1,592 | 1,783 | 1,261 |
| Open Continuously | 11,863 | 1,319 | 604 | 1,084 | 1,684 | 1,334 | 1,920 | 3,918 |

Table B11. Employment Size Category, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|--|--|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 |
| Ownership and Occupancy | | | | | | | | |
| Nongovernment Owned | 54,994 | 12,950 | 5,432 | 6,947 | 8,480 | 6,431 | 6,358 | 8,398 |
| Owner Occupied | 37,785 | 8,848 | 3,765 | 5,172 | 5,390 | 3,470 | 4,375 | 6,766 |
| Nonowner Occupied | 15,596 | 2,488 | 1,667 | 1,774 | 3,090 | 2,961 | 1,983 | 1,632 |
| Unoccupied | 1,613 | 1,613 | N | N | N | N | N | N |
| Government Owned | 12,343 | 1,371 | 893 | 1,081 | 2,334 | 2,467 | 1,998 | 2,198 |
| Vacancy Status | | | | | | | | |
| Completely Vacant | 953 | 953 | N | N | N | N | N | N |
| Mostly Vacant | 956 | 770 | Q | Q | Q | Q | N | Q |
| Partially Vacant | 15,520 | 2,520 | 1,059 | 1,102 | 2,153 | 1,811 | 2,297 | 4,577 |
| Not At All Vacant | 49,910 | 10,078 | 5,233 | 6,858 | 8,605 | 7,064 | 6,060 | 6,012 |
| Number of Establishments | | | | | | | | |
| One | 43,343 | 10,723 | 4,718 | 6,063 | 7,280 | 5,111 | 4,796 | 4,651 |
| 2 to 5 | 10,582 | 1,619 | 1,459 | 1,701 | 2,204 | 1,554 | 1,053 | 992 |
| 6 to 10 | 3,574 | Q | Q | 216 | 918 | 773 | 752 | 683 |
| 11 to 20 | 3,260 | Q | Q | Q | 389 | 1,021 | 992 | 789 |
| More than 20 | 4,811 | Q | Q | Q | Q | 440 | 764 | 3,480 |
| Currently Unoccupied | 1,769 | 1,769 | N | N | N | N | N | N |
| Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 65,716 | 12,750 | 6,274 | 8,028 | 10,814 | 8,898 | 8,356 | 10,595 |
| Natural Gas | 45,525 | 7,108 | 4,633 | 5,589 | 7,737 | 6,278 | 6,146 | 8,035 |
| Fuel Oil | 13,285 | 964 | 796 | 676 | 1,294 | 1,593 | 2,482 | 5,480 |
| District Heat | 5,891 | 390 | 304 | 475 | 544 | 696 | 1,052 | 2,431 |
| District Chilled Water | 2,750 | Q | Q | Q | 162 | 478 | 484 | 1,234 |
| Propane | 6,290 | 1,451 | 646 | 688 | 1,189 | 839 | 787 | 691 |
| Other | 2,322 | 345 | Q | Q | 317 | 364 | 417 | 527 |
| Energy End Uses (more than one may apply) | | | | | | | | |
| Buildings with Space Heating | 61,602 | 10,552 | 6,020 | 7,762 | 10,347 | 8,536 | 8,053 | 10,333 |
| Buildings with Cooling | 58,474 | 8,704 | 5,291 | 7,409 | 9,930 | 8,519 | 8,129 | 10,491 |
| Buildings with Water Heating | 56,115 | 8,401 | 5,145 | 7,000 | 9,445 | 8,166 | 7,760 | 10,199 |
| Buildings with Cooking | 24,681 | 1,651 | 1,341 | 2,021 | 3,871 | 4,354 | 4,305 | 7,138 |
| Buildings with Manufacturing | 3,126 | Q | 230 | 477 | 645 | 544 | 436 | 544 |
| Buildings with Electricity Generation | 11,882 | Q | 237 | 487 | 1,299 | 1,559 | 2,386 | 5,659 |
| Percent of Floorspace Heated | | | | | | | | |
| Not Heated | 5,736 | 3,769 | 305 | 265 | 468 | 362 | Q | Q |
| 1 to 50 | 7,593 | 2,323 | 1,426 | 1,249 | 958 | 776 | 357 | 504 |
| 51 to 99 | 10,745 | 2,174 | 732 | 1,304 | 1,848 | 1,137 | 1,206 | 2,344 |
| 100 | 43,264 | 6,055 | 3,862 | 5,209 | 7,541 | 6,622 | 6,490 | 7,485 |
| Percent of Floorspace Cooled | | | | | | | | |
| Not Cooled | 8,864 | 5,617 | 1,034 | 618 | 884 | 379 | Q | Q |
| 1 to 50 | 16,846 | 3,288 | 2,477 | 2,799 | 3,152 | 2,173 | 1,910 | 1,048 |
| 51 to 99 | 16,966 | 1,843 | 734 | 1,977 | 2,714 | 2,510 | 2,639 | 4,550 |
| 100 | 24,662 | 3,573 | 2,080 | 2,634 | 4,065 | 3,837 | 3,580 | 4,893 |
| Percent Lit When Open | | | | | | | | |
| Zero | 173 | Q | Q | Q | N | N | N | N |
| 1 to 50 | 9,187 | 3,999 | 1,649 | 1,679 | 996 | 405 | Q | Q |
| 51 to 99 | 20,665 | 2,822 | 1,733 | 2,336 | 3,974 | 3,562 | 2,485 | 3,752 |
| 100 | 34,233 | 4,404 | 2,869 | 3,930 | 5,844 | 4,931 | 5,526 | 6,729 |
| Building Never Open/ Electricity Not Used | 3,080 | 2,983 | Q | Q | N | N | N | N |

Table B11. Employment Size Category, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|---|--|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 |
| Heating Equipment (more than one may apply) | | | | | | | | |
| Heat Pumps | 8,923 | 707 | 655 | 1,340 | 1,761 | 1,401 | 1,105 | 1,954 |
| Furnaces | 14,449 | 3,874 | 2,510 | 1,953 | 2,631 | 1,221 | 1,164 | 1,095 |
| Individual Space Heaters | 17,349 | 2,913 | 1,680 | 1,973 | 2,538 | 2,531 | 2,376 | 3,339 |
| District Heat | 5,534 | 289 | 292 | 372 | 534 | 645 | 1,031 | 2,371 |
| Boilers | 19,522 | 1,840 | 1,285 | 1,771 | 2,739 | 3,234 | 3,706 | 4,948 |
| Packaged Heating Units | 25,743 | 3,005 | 1,788 | 3,002 | 4,935 | 4,416 | 4,172 | 4,426 |
| Other | 4,073 | 673 | 178 | 219 | 451 | 300 | 608 | 1,644 |
| Cooling Equipment (more than one may apply) | | | | | | | | |
| Residential-Type Central | | | | | | | | |
| Air Conditioners | 8,329 | 2,041 | 921 | 1,187 | 1,341 | 791 | 868 | 1,180 |
| Heat Pumps | 9,147 | 753 | 677 | 1,267 | 1,688 | 1,493 | 1,027 | 2,243 |
| Individual Air Conditioners | 14,276 | 2,568 | 1,226 | 2,037 | 2,138 | 2,046 | 1,940 | 2,322 |
| District Chilled Water | 2,750 | Q | Q | Q | 162 | 478 | 484 | 1,234 |
| Central Chillers | 12,909 | 297 | 223 | 277 | 1,054 | 1,646 | 2,597 | 6,815 |
| Packaged Air Conditioning | | | | | | | | |
| Units | 36,527 | 4,264 | 2,933 | 4,334 | 6,776 | 5,963 | 5,507 | 6,751 |
| Swamp Coolers | 2,219 | 315 | 317 | Q | 394 | 365 | 360 | 335 |
| Other | 1,312 | Q | Q | Q | 210 | Q | 341 | 381 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | |
| Incandescent | 38,156 | 6,532 | 3,289 | 4,437 | 5,841 | 5,330 | 5,082 | 7,644 |
| Standard Fluorescent | 60,344 | 9,890 | 5,796 | 7,439 | 10,106 | 8,474 | 8,164 | 10,475 |
| Compact Fluorescent | 20,666 | 1,388 | 1,118 | 1,682 | 3,032 | 2,781 | 3,573 | 7,093 |
| High Intensity Discharge | 19,223 | 1,348 | 990 | 1,233 | 2,984 | 3,306 | 3,551 | 5,812 |
| Halogen | 17,926 | 1,448 | 880 | 1,482 | 2,585 | 2,539 | 3,003 | 5,989 |
| Other | 1,004 | Q | Q | Q | Q | Q | Q | Q |
| Personal Computers | | | | | | | | |
| None | 9,583 | 7,539 | 1,073 | 622 | 193 | Q | Q | Q |
| 1 to 4 | 13,853 | 5,870 | 2,877 | 2,418 | 1,842 | 609 | Q | Q |
| 5 to 9 | 6,528 | 329 | 1,662 | 1,850 | 1,811 | 639 | Q | Q |
| 10 to 19 | 7,514 | Q | 416 | 2,246 | 2,408 | 1,140 | 678 | Q |
| 20 to 49 | 8,087 | Q | Q | 584 | 2,949 | 2,408 | 1,541 | 281 |
| 50 to 99 | 5,867 | Q | Q | Q | 1,103 | 2,240 | 1,563 | 626 |
| 100 to 249 | 6,818 | Q | Q | Q | 370 | 1,434 | 3,130 | 1,733 |
| 250 or More | 9,088 | Q | N | Q | Q | 321 | 1,034 | 7,554 |
| Photocopiers | | | | | | | | |
| None | 21,631 | 10,918 | 3,493 | 2,574 | 2,309 | 1,176 | 844 | 316 |
| One | 12,928 | 2,797 | 2,060 | 3,138 | 2,987 | 1,407 | 347 | Q |
| 2 to 4 | 15,620 | 567 | 746 | 2,215 | 4,616 | 3,863 | 2,800 | 812 |
| 5 to 9 | 5,384 | Q | Q | Q | 782 | 1,352 | 1,940 | 1,187 |
| 10 or More | 11,774 | Q | Q | Q | Q | 1,100 | 2,426 | 8,086 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | |
| Laser Printers | 46,567 | 3,246 | 3,323 | 5,128 | 8,881 | 8,004 | 7,714 | 10,271 |
| FAX Machines | 54,764 | 5,336 | 4,881 | 6,981 | 10,031 | 8,696 | 8,259 | 10,580 |
| Medical Diagnostic Equipment | 2,493 | Q | Q | Q | 148 | 220 | 412 | 1,502 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | |
| Specular Reflectors | 19,994 | 1,386 | 1,450 | 1,959 | 2,813 | 2,860 | 3,629 | 5,897 |
| Electronic Ballasts | 42,035 | 5,143 | 3,536 | 4,587 | 6,666 | 6,415 | 6,220 | 9,468 |
| Skylights or Atriums | 18,286 | 1,891 | 934 | 1,676 | 2,509 | 3,136 | 3,092 | 5,050 |

Table B11. Employment Size Category, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|---|--|----------------------|----------------|------------------|------------------|------------------|--------------------|---------------------|
| | All Buildings | Number of Workers | | | | | | |
| | | 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 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | |
| Heating | 39,969 | 7,086 | 4,313 | 5,451 | 7,017 | 5,890 | 4,819 | 5,394 |
| Cooling | 39,161 | 6,141 | 4,058 | 5,609 | 6,887 | 5,729 | 5,011 | 5,726 |
| Lighting | 51,083 | 9,745 | 5,555 | 6,640 | 8,834 | 7,390 | 6,343 | 6,576 |
| Office Equipment | 9,063 | Q | Q | 529 | 2,132 | 2,435 | 2,153 | 1,668 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B12. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|--|--------------------------------|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| All Buildings | 4,657 | 4,135 | 2,801 | 1,099 | 236 | 521 | 63 | 83 | 375 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 2,131 | 1,433 | 548 | 151 | 216 | Q | Q | 175 |
| 5,001 to 10,000 | 1,110 | 1,006 | 693 | 250 | Q | 104 | Q | Q | 70 |
| 10,001 to 25,000 | 708 | 618 | 431 | 172 | 15 | 91 | Q | 14 | 64 |
| 25,001 to 50,000 | 257 | 202 | 129 | 68 | Q | 55 | Q | 19 | 33 |
| 50,001 to 100,000 | 145 | 109 | 69 | 39 | Q | 36 | Q | 11 | 21 |
| 100,001 to 200,000 | 59 | 47 | 29 | 17 | Q | 13 | 2 | 3 | 8 |
| 200,001 to 500,000 | 23 | 18 | 13 | 4 | Q | 5 | Q | 2 | 3 |
| Over 500,000 | 7 | 5 | 5 | 1 | Q | 2 | 1 | Q | Q |
| Principal Building Activity | | | | | | | | | |
| Education | 327 | 133 | 107 | 25 | N | 195 | Q | 43 | 151 |
| Food Sales | 174 | 174 | 132 | 42 | N | Q | N | N | Q |
| Food Service | 349 | 336 | 242 | 94 | N | Q | Q | Q | Q |
| Health Care | 127 | 119 | 77 | 42 | N | Q | Q | Q | Q |
| Inpatient | 11 | 9 | 6 | Q | N | 2 | Q | Q | Q |
| Outpatient | 116 | 110 | 71 | 39 | N | Q | Q | Q | Q |
| Lodging | 153 | 142 | 125 | 17 | N | Q | Q | Q | Q |
| Mercantile | 667 | 667 | 377 | 283 | Q | Q | N | Q | Q |
| Retail (Other Than Mall) | 534 | 533 | 330 | 196 | Q | Q | N | N | Q |
| Enclosed and Strip Malls | 133 | 133 | 47 | 87 | N | Q | N | Q | N |
| Office | 739 | 685 | 476 | 209 | N | 54 | Q | 6 | 37 |
| Public Assembly | 305 | 240 | 203 | 31 | Q | 65 | Q | 5 | 52 |
| Public Order and Safety | 72 | Q | Q | Q | N | 49 | Q | 5 | 43 |
| Religious Worship | 307 | 307 | 294 | Q | N | N | N | N | N |
| Service | 478 | 421 | 275 | 146 | N | 57 | 6 | Q | 48 |
| Warehouse and Storage | 603 | 564 | 371 | 131 | Q | 40 | Q | Q | Q |
| Other | 102 | 89 | 63 | 25 | N | Q | Q | Q | Q |
| Vacant | 253 | 235 | Q | Q | 161 | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 419 | 384 | 256 | 94 | Q | 35 | Q | Q | 21 |
| 1920 to 1945 | 499 | 436 | 291 | 130 | Q | 63 | Q | 6 | 51 |
| 1946 to 1959 | 763 | 670 | 450 | 159 | 62 | 93 | Q | 24 | 54 |
| 1960 to 1969 | 665 | 581 | 377 | 172 | Q | 85 | 4 | 11 | 69 |
| 1970 to 1979 | 774 | 684 | 465 | 201 | Q | 90 | Q | 19 | 60 |
| 1980 to 1989 | 846 | 761 | 532 | 195 | Q | 85 | Q | 10 | 73 |
| 1990 to 1999 | 690 | 619 | 431 | 148 | Q | 71 | Q | 14 | 48 |
| Floors | | | | | | | | | |
| One | 2,879 | 2,530 | 1,598 | 760 | 171 | 349 | 41 | 50 | 258 |
| Two | 1,168 | 1,068 | 805 | 222 | 41 | 100 | Q | 16 | 70 |
| Three | 420 | 379 | 270 | 88 | Q | 41 | 4 | 9 | 28 |
| Four to Nine | 178 | 148 | 119 | 27 | Q | 30 | 4 | 8 | 19 |
| Ten or More | 11 | 10 | 8 | 2 | Q | 1 | 0 | 1 | Q |
| Census Region | | | | | | | | | |
| Northeast | 686 | 607 | 455 | 142 | Q | 80 | Q | 9 | 60 |
| Midwest | 1,188 | 1,105 | 747 | 256 | 102 | 83 | Q | 14 | 58 |
| South | 1,762 | 1,585 | 1,083 | 431 | 71 | 177 | 25 | 32 | 120 |
| West | 1,021 | 839 | 516 | 270 | 53 | 182 | 16 | 28 | 137 |

Table B12. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 2,376 | 2,187 | 1,463 | 488 | 236 | 189 | Q | 14 | 141 |
| 5 to 9 | 807 | 709 | 489 | 220 | N | 99 | Q | 11 | 86 |
| 10 to 19 | 683 | 587 | 435 | 152 | N | 96 | Q | 26 | 62 |
| 20 to 49 | 487 | 413 | 279 | 133 | N | 75 | Q | 13 | 51 |
| 50 to 99 | 174 | 135 | 64 | 72 | N | 39 | Q | 13 | 23 |
| 100 to 249 | 90 | 73 | 48 | 25 | N | 18 | 3 | 5 | 9 |
| 250 or More | 39 | 33 | 24 | 9 | N | 6 | 2 | 2 | 3 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 978 | 863 | 527 | 100 | 236 | 115 | Q | Q | 97 |
| 40 to 48 | 1,156 | 967 | 662 | 305 | N | 189 | Q | 39 | 137 |
| 49 to 60 | 986 | 887 | 639 | 248 | N | 99 | 24 | 13 | 62 |
| 61 to 84 | 664 | 624 | 400 | 224 | N | 40 | 4 | 8 | 27 |
| 85 to 167 | 474 | 442 | 295 | 147 | N | 33 | Q | 7 | 24 |
| Open Continuously | 398 | 352 | 278 | 74 | N | 46 | 4 | 15 | 28 |
| Vacancy Status | | | | | | | | | |
| Completely Vacant | 140 | 139 | N | N | 139 | Q | N | N | Q |
| Mostly Vacant | 113 | 96 | Q | Q | 22 | Q | Q | Q | Q |
| Partially Vacant | 697 | 620 | 339 | 207 | Q | 77 | Q | 8 | 59 |
| Not At All Vacant | 3,707 | 3,280 | 2,428 | 852 | N | 427 | 45 | 75 | 308 |
| Number of Establishments | | | | | | | | | |
| One | 3,528 | 3,084 | 2,317 | 767 | N | 444 | 53 | 76 | 316 |
| 2 to 5 | 688 | 631 | 395 | 236 | N | 58 | Q | 6 | 42 |
| 6 to 10 | 114 | 111 | 58 | 54 | N | 3 | Q | Q | Q |
| 11 to 20 | 48 | 47 | 14 | 33 | N | Q | Q | Q | Q |
| More than 20 | 27 | 27 | 18 | 9 | N | Q | Q | Q | Q |
| Currently Unoccupied | 251 | 236 | N | N | 236 | Q | Q | Q | Q |
| Multibuilding Facility Activity | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | |
| Facility | 3,295 | 3,097 | 2,050 | 854 | 193 | 198 | 7 | 24 | 167 |
| College or University | 70 | 53 | 48 | Q | Q | 17 | Q | 15 | Q |
| Primary or Secondary School | 224 | 54 | 47 | Q | Q | 170 | Q | 21 | 148 |
| Office Complex | 134 | 115 | 64 | 45 | Q | 19 | Q | Q | Q |
| Retail Complex | 181 | 175 | 74 | 95 | Q | Q | N | Q | Q |
| Religious Campus or Complex | 186 | 186 | 181 | Q | N | N | N | N | N |
| Health Care Complex | 72 | 50 | 35 | Q | Q | 22 | Q | Q | Q |
| Government Complex | 61 | Q | Q | Q | N | 61 | 27 | Q | 25 |
| Other | 434 | 405 | 301 | 74 | Q | 29 | Q | 6 | 14 |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 4,395 | 3,898 | 2,747 | 1,069 | 82 | 498 | 54 | 83 | 361 |
| Natural Gas | 2,670 | 2,366 | 1,605 | 719 | 43 | 304 | 24 | 52 | 228 |
| Fuel Oil | 434 | 386 | 311 | 75 | Q | 48 | 4 | 6 | 38 |
| District Heat | 117 | 67 | 53 | Q | N | 50 | Q | 20 | 19 |
| District Chilled Water | 50 | 21 | 13 | Q | N | 29 | Q | 6 | Q |
| Propane | 451 | 415 | 355 | 57 | Q | 36 | Q | 9 | 26 |
| Other | 153 | 144 | 126 | 17 | Q | 9 | Q | Q | Q |

Table B12. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,544 | 2,525 | 980 | 40 | 471 | 54 | 79 | 339 |
| Buildings with Cooling | 3,560 | 3,172 | 2,246 | 900 | Q | 387 | 46 | 65 | 277 |
| Buildings with Water Heating | 3,239 | 2,887 | 2,039 | 818 | 30 | 352 | 40 | 74 | 238 |
| Buildings with Cooking | 857 | 753 | 555 | 196 | Q | 105 | 5 | 19 | 81 |
| Buildings with Manufacturing | 151 | 141 | 97 | 44 | N | Q | Q | Q | Q |
| Buildings with Electricity Generation | 172 | 129 | 113 | 15 | Q | 42 | 4 | 13 | 26 |
| Percent of Floorspace Heated | | | | | | | | | |
| Not Heated | 641 | 591 | 276 | 119 | 196 | 50 | Q | Q | 36 |
| 1 to 50 | 576 | 543 | 385 | 149 | Q | 33 | Q | Q | 24 |
| 51 to 99 | 627 | 572 | 393 | 175 | Q | 55 | Q | 17 | 31 |
| 100 | 2,813 | 2,430 | 1,747 | 655 | Q | 383 | 40 | 60 | 284 |
| Percent of Floorspace Cooled | | | | | | | | | |
| Not Cooled | 1,097 | 963 | 555 | 199 | 209 | 134 | Q | 19 | 99 |
| 1 to 50 | 1,012 | 925 | 684 | 239 | Q | 87 | Q | 20 | 57 |
| 51 to 99 | 751 | 669 | 459 | 206 | Q | 82 | Q | 23 | 52 |
| 100 | 1,796 | 1,578 | 1,103 | 455 | Q | 218 | 28 | 22 | 167 |
| Percent Lit When Open | | | | | | | | | |
| Zero | 34 | 34 | Q | Q | N | N | N | N | N |
| 1 to 50 | 835 | 772 | 603 | 169 | N | 63 | Q | Q | 35 |
| 51 to 99 | 1,228 | 1,090 | 797 | 294 | N | 138 | Q | 34 | 92 |
| 100 | 2,096 | 1,820 | 1,227 | 593 | N | 275 | 15 | 40 | 220 |
| Building Never Open/ Electricity Not Used | 464 | 419 | 142 | 41 | 236 | 45 | Q | Q | Q |
| Heating Equipment (more than one may apply) | | | | | | | | | |
| Heat Pumps | 492 | 410 | 266 | 143 | Q | 82 | Q | 19 | 45 |
| Furnaces | 1,460 | 1,391 | 1,009 | 366 | Q | 69 | Q | 8 | 53 |
| Individual Space Heaters | 894 | 795 | 576 | 211 | Q | 99 | 16 | 14 | 69 |
| District Heat | 96 | 53 | 44 | Q | N | 43 | Q | 13 | 18 |
| Boilers | 581 | 444 | 380 | 63 | Q | 137 | 8 | 27 | 102 |
| Packaged Heating Units | 1,347 | 1,188 | 779 | 390 | Q | 159 | 5 | 18 | 136 |
| Other | 185 | 161 | 125 | 36 | Q | 24 | Q | Q | Q |
| Cooling Equipment (more than one may apply) | | | | | | | | | |
| Residential-Type Central | | | | | | | | | |
| Air Conditioners | 676 | 639 | 483 | 152 | Q | 38 | Q | 4 | 20 |
| Heat Pumps | 485 | 413 | 252 | 160 | Q | 73 | Q | 18 | 37 |
| Individual Air Conditioners | 799 | 682 | 533 | 140 | Q | 116 | 5 | 19 | 92 |
| District Chilled Water | 50 | 21 | 13 | Q | N | 29 | Q | 6 | Q |
| Central Chillers | 130 | 87 | 72 | 14 | Q | 42 | 5 | 12 | 26 |
| Packaged Air Conditioning | | | | | | | | | |
| Units | 1,953 | 1,739 | 1,206 | 508 | Q | 214 | 9 | 29 | 176 |
| Swamp Coolers | 136 | 127 | 64 | 63 | N | 9 | Q | Q | Q |
| Other | 49 | 45 | 41 | 4 | N | 4 | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | |
| Heating | 984 | 872 | 619 | 245 | Q | 112 | Q | 13 | 93 |
| Cooling | 1,085 | 983 | 651 | 324 | Q | 102 | Q | 17 | 78 |

Table B12. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|--|--------------------------------|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Lighting Equipment Types (more than one may apply) | | | | | | | | | |
| Incandescent | 2,193 | 2,000 | 1,423 | 568 | Q | 193 | 20 | 33 | 140 |
| Standard Fluorescent | 3,778 | 3,335 | 2,355 | 970 | Q | 443 | 47 | 74 | 322 |
| Compact Fluorescent | 607 | 533 | 414 | 118 | Q | 74 | 6 | 19 | 49 |
| High Intensity Discharge | 430 | 342 | 258 | 84 | N | 87 | 5 | 18 | 64 |
| Halogen | 572 | 536 | 402 | 133 | Q | 36 | 2 | 9 | 25 |
| Other | 58 | 56 | 44 | Q | N | Q | Q | Q | Q |
| Personal Computers | | | | | | | | | |
| None | 1,617 | 1,503 | 981 | 304 | 218 | 114 | Q | Q | 92 |
| 1 to 4 | 1,636 | 1,506 | 1,076 | 428 | Q | 130 | Q | 18 | 93 |
| 5 to 9 | 542 | 466 | 300 | 163 | Q | 76 | Q | Q | 57 |
| 10 to 19 | 403 | 335 | 230 | 93 | Q | 67 | Q | 15 | 50 |
| 20 to 49 | 247 | 184 | 121 | 63 | N | 64 | Q | 11 | 43 |
| 50 to 99 | 105 | 74 | 44 | 30 | N | 31 | Q | 9 | 21 |
| 100 to 249 | 71 | 42 | 29 | 12 | N | 29 | 2 | 12 | 15 |
| 250 or More | 36 | 26 | 20 | 6 | N | 10 | 2 | 3 | 5 |
| Photocopiers | | | | | | | | | |
| None | 2,825 | 2,548 | 1,661 | 656 | 231 | 277 | 40 | 31 | 206 |
| One | 1,114 | 996 | 725 | 267 | Q | 117 | Q | 23 | 81 |
| 2 to 4 | 540 | 443 | 328 | 115 | Q | 97 | 6 | 18 | 73 |
| 5 to 9 | 102 | 83 | 47 | 37 | N | 19 | Q | 8 | 10 |
| 10 or More | 75 | 64 | 40 | 24 | N | 11 | 3 | 3 | 5 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | | |
| Laser Printers | 1,949 | 1,670 | 1,193 | 466 | Q | 280 | 38 | 56 | 185 |
| FAX Machines | 2,807 | 2,533 | 1,748 | 774 | Q | 274 | 37 | 46 | 190 |
| Medical Diagnostic Equipment | 86 | 78 | 57 | 21 | N | Q | Q | Q | Q |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | |
| Commercial Food Preparation | 767 | 668 | 478 | 190 | Q | 99 | 5 | 19 | 75 |
| Activities with Large Amounts of Hot Water | 698 | 585 | 439 | 146 | Q | 113 | Q | 27 | 74 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | |
| Multipaned Windows | 2,130 | 1,906 | 1,430 | 452 | 24 | 223 | 26 | 40 | 157 |
| Tinted, Reflective, or Shading Glass | 1,283 | 1,134 | 820 | 304 | Q | 149 | 19 | 20 | 110 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | |
| Variable Air-Volume System | 550 | 463 | 330 | 129 | Q | 87 | 5 | 26 | 55 |
| Economizer Cycle | 567 | 441 | 314 | 124 | Q | 126 | 18 | 25 | 82 |
| HVAC Maintenance | 2,786 | 2,388 | 1,728 | 639 | Q | 398 | 46 | 66 | 285 |
| Energy Management and Control System (EMCS) | 460 | 330 | 244 | 86 | Q | 131 | 16 | 29 | 85 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | |
| Specular Reflectors | 843 | 726 | 489 | 237 | Q | 117 | Q | 16 | 88 |
| Electronic Ballasts | 2,167 | 1,880 | 1,288 | 591 | Q | 287 | 24 | 48 | 215 |
| Skylights or Atriums | 580 | 502 | 326 | 145 | Q | 77 | 3 | 21 | 53 |

Table B12. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | |
| Heating | 2,862 | 2,517 | 1,857 | 629 | 32 | 345 | 35 | 38 | 272 |
| Cooling | 2,622 | 2,339 | 1,654 | 660 | Q | 282 | 28 | 32 | 222 |
| Lighting | 3,675 | 3,255 | 2,309 | 946 | N | 420 | 43 | 67 | 310 |
| Office Equipment | 184 | 115 | 76 | 39 | N | 69 | Q | 21 | 47 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B13. Occupancy of Nongovernment-Owned and Government Owned Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|--|--|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| All Buildings | 67,338 | 54,994 | 37,785 | 15,596 | 1,613 | 12,343 | 1,797 | 3,391 | 7,156 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 6,189 | 4,040 | 1,686 | 463 | 585 | Q | Q | 467 |
| 5,001 to 10,000 | 8,238 | 7,466 | 5,179 | 1,827 | Q | 772 | Q | Q | 509 |
| 10,001 to 25,000 | 11,153 | 9,655 | 6,736 | 2,656 | 264 | 1,498 | 177 | 233 | 1,088 |
| 25,001 to 50,000 | 9,311 | 7,264 | 4,577 | 2,496 | Q | 2,047 | Q | 732 | 1,200 |
| 50,001 to 100,000 | 10,112 | 7,571 | 4,723 | 2,775 | Q | 2,541 | Q | 732 | 1,487 |
| 100,001 to 200,000 | 8,271 | 6,509 | 4,097 | 2,374 | Q | 1,762 | 256 | 442 | 1,064 |
| 200,001 to 500,000 | 6,851 | 5,229 | 3,924 | 1,190 | Q | 1,622 | Q | 610 | 902 |
| Over 500,000 | 6,628 | 5,112 | 4,509 | 592 | Q | 1,516 | 641 | Q | Q |
| Principal Building Activity | | | | | | | | | |
| Education | 8,651 | 3,207 | 2,833 | 373 | N | 5,444 | Q | 1,712 | 3,655 |
| Food Sales | 994 | 990 | 705 | 284 | N | Q | N | N | Q |
| Food Service | 1,851 | 1,763 | 1,362 | 401 | N | Q | Q | Q | Q |
| Health Care | 2,918 | 2,468 | 2,087 | 380 | N | 450 | Q | Q | 243 |
| Inpatient | 1,865 | 1,489 | 1,423 | Q | N | 376 | Q | Q | Q |
| Outpatient | 1,053 | 979 | 664 | 315 | N | Q | Q | Q | Q |
| Lodging | 4,521 | 4,100 | 3,614 | 486 | N | 421 | Q | 219 | Q |
| Mercantile | 10,398 | 10,380 | 5,308 | 5,031 | Q | Q | N | Q | Q |
| Retail (Other Than Mall) | 4,766 | 4,757 | 2,729 | 1,986 | Q | Q | N | N | Q |
| Enclosed and Strip Malls | 5,631 | 5,624 | 2,579 | 3,045 | N | Q | N | Q | N |
| Office | 12,044 | 10,482 | 7,435 | 3,047 | N | 1,562 | 600 | 380 | 582 |
| Public Assembly | 4,393 | 2,775 | 2,321 | 411 | Q | 1,618 | Q | 461 | 980 |
| Public Order and Safety | 1,168 | Q | Q | Q | N | 1,013 | Q | 226 | 779 |
| Religious Worship | 3,405 | 3,405 | 3,349 | Q | N | N | N | N | N |
| Service | 3,388 | 2,532 | 1,710 | 822 | N | 856 | 297 | Q | 384 |
| Warehouse and Storage | 10,477 | 9,901 | 5,821 | 3,693 | Q | 576 | Q | Q | Q |
| Other | 1,222 | 1,082 | 773 | 310 | N | 139 | Q | Q | Q |
| Vacant | 1,908 | 1,754 | Q | Q | 1,143 | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 4,034 | 3,456 | 2,479 | 728 | Q | 579 | Q | Q | 293 |
| 1920 to 1945 | 6,445 | 4,812 | 3,575 | 1,081 | Q | 1,633 | Q | 447 | 993 |
| 1946 to 1959 | 9,127 | 7,053 | 4,879 | 1,737 | 437 | 2,074 | 532 | 632 | 910 |
| 1960 to 1969 | 10,866 | 8,122 | 5,495 | 2,419 | Q | 2,745 | 364 | 742 | 1,639 |
| 1970 to 1979 | 11,840 | 9,907 | 6,795 | 2,960 | Q | 1,933 | Q | 599 | 1,174 |
| 1980 to 1989 | 13,931 | 12,507 | 8,364 | 3,855 | Q | 1,424 | Q | 315 | 990 |
| 1990 to 1999 | 11,094 | 9,138 | 6,198 | 2,817 | Q | 1,956 | 243 | 554 | 1,158 |
| Floors | | | | | | | | | |
| One | 26,800 | 22,775 | 12,499 | 9,308 | 969 | 4,025 | 376 | 995 | 2,654 |
| Two | 16,985 | 14,366 | 10,848 | 3,256 | 262 | 2,619 | 235 | 538 | 1,846 |
| Three | 8,928 | 6,902 | 5,387 | 1,274 | Q | 2,026 | 207 | 665 | 1,154 |
| Four to Nine | 10,180 | 7,201 | 5,979 | 1,134 | Q | 2,979 | 640 | 1,039 | 1,300 |
| Ten or More | 4,445 | 3,750 | 3,073 | 623 | Q | 695 | 339 | 153 | Q |
| Census Region | | | | | | | | | |
| Northeast | 12,360 | 9,542 | 7,143 | 2,286 | Q | 2,818 | 394 | 683 | 1,741 |
| Midwest | 16,761 | 13,896 | 9,990 | 3,427 | 479 | 2,865 | 318 | 961 | 1,586 |
| South | 23,485 | 19,745 | 13,228 | 5,881 | 636 | 3,740 | 549 | 919 | 2,273 |
| West | 14,731 | 11,810 | 7,424 | 4,001 | 385 | 2,921 | 537 | 828 | 1,556 |

Table B13. Occupancy of Nongovernment-Owned and Government Owned Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 14,321 | 12,950 | 8,848 | 2,488 | 1,613 | 1,371 | Q | 263 | 946 |
| 5 to 9 | 6,325 | 5,432 | 3,765 | 1,667 | N | 893 | Q | 257 | 508 |
| 10 to 19 | 8,028 | 6,947 | 5,172 | 1,774 | N | 1,081 | Q | 300 | 683 |
| 20 to 49 | 10,814 | 8,480 | 5,390 | 3,090 | N | 2,334 | 288 | 573 | 1,473 |
| 50 to 99 | 8,898 | 6,431 | 3,470 | 2,961 | N | 2,467 | Q | 739 | 1,638 |
| 100 to 249 | 8,356 | 6,358 | 4,375 | 1,983 | N | 1,998 | 246 | 701 | 1,051 |
| 250 or More | 10,595 | 8,398 | 6,766 | 1,632 | N | 2,198 | 783 | 556 | 858 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 6,596 | 5,563 | 3,438 | 512 | 1,613 | 1,033 | Q | Q | 849 |
| 40 to 48 | 13,105 | 9,889 | 6,718 | 3,171 | N | 3,216 | 302 | 863 | 2,050 |
| 49 to 60 | 14,200 | 11,920 | 8,103 | 3,818 | N | 2,280 | 372 | 671 | 1,236 |
| 61 to 84 | 12,458 | 10,671 | 7,204 | 3,467 | N | 1,786 | 210 | 538 | 1,039 |
| 85 to 167 | 9,116 | 7,381 | 4,533 | 2,849 | N | 1,734 | Q | 435 | 1,128 |
| Open Continuously | 11,863 | 9,569 | 7,789 | 1,780 | N | 2,294 | 631 | 808 | 855 |
| Vacancy Status | | | | | | | | | |
| Completely Vacant | 953 | 922 | N | N | 922 | Q | N | N | Q |
| Mostly Vacant | 956 | 832 | Q | Q | 221 | Q | Q | Q | Q |
| Partially Vacant | 15,520 | 13,410 | 8,450 | 4,490 | Q | 2,111 | 277 | 730 | 1,103 |
| Not At All Vacant | 49,910 | 39,831 | 29,012 | 10,819 | N | 10,078 | 1,444 | 2,652 | 5,983 |
| Number of Establishments | | | | | | | | | |
| One | 43,343 | 33,290 | 25,947 | 7,343 | N | 10,053 | 1,373 | 2,818 | 5,862 |
| 2 to 5 | 10,582 | 9,077 | 5,371 | 3,706 | N | 1,505 | 332 | 307 | 865 |
| 6 to 10 | 3,574 | 3,369 | 1,699 | 1,670 | N | 205 | Q | Q | Q |
| 11 to 20 | 3,260 | 3,097 | 1,336 | 1,761 | N | Q | Q | Q | Q |
| More than 20 | 4,811 | 4,549 | 3,433 | 1,116 | N | Q | Q | Q | Q |
| Currently Unoccupied | 1,769 | 1,613 | N | N | 1,613 | Q | Q | Q | Q |
| Multibuilding Facility Activity | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | |
| Facility | 41,289 | 35,892 | 24,040 | 10,524 | 1,328 | 5,396 | 417 | 1,140 | 3,839 |
| College or University | 2,605 | 1,653 | 1,562 | Q | Q | 952 | Q | 835 | Q |
| Primary or Secondary School | 3,388 | 1,091 | 1,042 | Q | Q | 2,296 | Q | 650 | 1,637 |
| Office Complex | 3,353 | 3,014 | 2,035 | 958 | Q | 338 | Q | Q | Q |
| Retail Complex | 3,555 | 3,456 | 1,547 | 1,889 | Q | Q | N | Q | Q |
| Religious Campus or Complex | 1,907 | 1,907 | 1,817 | Q | N | N | N | N | N |
| Health Care Complex | 2,339 | 1,736 | 1,571 | Q | Q | 604 | 230 | Q | 235 |
| Government Complex | 1,513 | Q | Q | Q | N | 1,498 | 728 | Q | 630 |
| Other | 7,389 | 6,230 | 4,166 | 1,855 | Q | 1,160 | 220 | 424 | 515 |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 65,716 | 53,640 | 37,506 | 15,441 | 693 | 12,076 | 1,711 | 3,382 | 6,983 |
| Natural Gas | 45,525 | 37,026 | 25,597 | 10,968 | 461 | 8,500 | 997 | 2,253 | 5,250 |
| Fuel Oil | 13,285 | 9,893 | 8,284 | 1,605 | Q | 3,392 | 748 | 822 | 1,823 |
| District Heat | 5,891 | 3,333 | 2,907 | 426 | N | 2,559 | 827 | 1,187 | 546 |
| District Chilled Water | 2,750 | 1,560 | 1,325 | Q | N | 1,190 | 368 | 407 | 415 |
| Propane | 6,290 | 5,305 | 4,051 | 1,244 | Q | 985 | Q | 286 | 629 |
| Other | 2,322 | 1,864 | 1,486 | 358 | Q | 458 | Q | Q | Q |

Table B13. Occupancy of Nongovernment-Owned and Government Owned Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 61,602 | 49,916 | 35,287 | 14,279 | 349 | 11,687 | 1,715 | 3,318 | 6,653 |
| Buildings with Cooling | 58,474 | 47,858 | 33,473 | 14,013 | Q | 10,616 | 1,525 | 2,962 | 6,129 |
| Buildings with Water Heating | 56,115 | 45,444 | 31,903 | 13,158 | 383 | 10,670 | 1,477 | 3,111 | 6,082 |
| Buildings with Cooking | 24,681 | 18,531 | 14,039 | 4,458 | Q | 6,150 | 838 | 1,535 | 3,778 |
| Buildings with Manufacturing | 3,126 | 2,708 | 1,619 | 1,089 | N | Q | Q | Q | Q |
| Buildings with Electricity Generation | 11,882 | 8,847 | 7,264 | 1,558 | Q | 3,035 | 758 | 907 | 1,370 |
| Percent of Floorspace Heated | | | | | | | | | |
| Not Heated | 5,736 | 5,079 | 2,498 | 1,317 | 1,264 | 657 | Q | Q | 504 |
| 1 to 50 | 7,593 | 7,105 | 4,711 | 2,314 | Q | 488 | Q | Q | 298 |
| 51 to 99 | 10,745 | 9,043 | 6,527 | 2,504 | Q | 1,702 | 317 | 584 | 802 |
| 100 | 43,264 | 33,768 | 24,049 | 9,461 | Q | 9,496 | 1,315 | 2,628 | 5,553 |
| Percent of Floorspace Cooled | | | | | | | | | |
| Not Cooled | 8,864 | 7,137 | 4,313 | 1,583 | 1,241 | 1,727 | Q | 428 | 1,027 |
| 1 to 50 | 16,846 | 13,844 | 9,562 | 4,198 | Q | 3,002 | Q | 894 | 1,847 |
| 51 to 99 | 16,966 | 13,579 | 9,718 | 3,828 | Q | 3,387 | 514 | 1,056 | 1,816 |
| 100 | 24,662 | 20,435 | 14,193 | 5,986 | Q | 4,227 | 749 | 1,012 | 2,466 |
| Percent Lit When Open | | | | | | | | | |
| Zero | 173 | 173 | Q | Q | N | N | N | N | N |
| 1 to 50 | 9,187 | 8,569 | 6,878 | 1,692 | N | 618 | Q | Q | 315 |
| 51 to 99 | 20,665 | 16,036 | 11,478 | 4,558 | N | 4,629 | 454 | 1,441 | 2,734 |
| 100 | 34,233 | 27,659 | 18,582 | 9,077 | N | 6,575 | 1,058 | 1,827 | 3,689 |
| Building Never Open/ Electricity Not Used | 3,080 | 2,558 | 708 | 237 | 1,613 | 522 | Q | Q | Q |
| Heating Equipment (more than one may apply) | | | | | | | | | |
| Heat Pumps | 8,923 | 7,187 | 5,195 | 1,974 | Q | 1,736 | Q | 435 | 1,125 |
| Furnaces | 14,449 | 13,202 | 9,424 | 3,681 | Q | 1,247 | Q | 244 | 844 |
| Individual Space Heaters | 17,349 | 14,235 | 10,218 | 3,933 | Q | 3,114 | 674 | 787 | 1,653 |
| District Heat | 5,534 | 3,072 | 2,695 | 377 | N | 2,462 | 827 | 1,102 | 534 |
| Boilers | 19,522 | 13,132 | 11,042 | 2,041 | Q | 6,390 | 588 | 1,561 | 4,242 |
| Packaged Heating Units | 25,743 | 22,108 | 13,998 | 7,945 | Q | 3,635 | 249 | 1,108 | 2,279 |
| Other | 4,073 | 3,607 | 2,828 | 735 | Q | 466 | Q | 202 | Q |
| Cooling Equipment (more than one may apply) | | | | | | | | | |
| Residential-Type Central | | | | | | | | | |
| Air Conditioners | 8,329 | 7,313 | 5,683 | 1,623 | Q | 1,016 | Q | 173 | 684 |
| Heat Pumps | 9,147 | 7,445 | 5,284 | 2,143 | Q | 1,702 | Q | 354 | 1,194 |
| Individual Air Conditioners | 14,276 | 10,593 | 8,343 | 2,046 | Q | 3,683 | 623 | 646 | 2,414 |
| District Chilled Water | 2,750 | 1,560 | 1,325 | Q | N | 1,190 | 368 | 407 | 415 |
| Central Chillers | 12,909 | 8,984 | 7,474 | 1,482 | Q | 3,926 | 804 | 1,260 | 1,861 |
| Packaged Air Conditioning | | | | | | | | | |
| Units | 36,527 | 30,779 | 20,641 | 9,842 | Q | 5,748 | 728 | 1,508 | 3,511 |
| Swamp Coolers | 2,219 | 1,610 | 945 | 665 | N | 609 | Q | Q | Q |
| Other | 1,312 | 1,145 | 989 | 156 | N | 167 | Q | Q | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | |
| Heating | 13,220 | 11,270 | 7,591 | 3,617 | Q | 1,950 | Q | 389 | 1,483 |
| Cooling | 17,390 | 14,186 | 9,617 | 4,491 | Q | 3,204 | 387 | 922 | 1,895 |

Table B13. Occupancy of Nongovernment-Owned and Government Owned Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Lighting Equipment Types (more than one may apply) | | | | | | | | | |
| Incandescent | 38,156 | 31,544 | 23,612 | 7,849 | Q | 6,612 | 937 | 1,837 | 3,838 |
| Standard Fluorescent | 60,344 | 48,959 | 34,331 | 14,462 | Q | 11,385 | 1,653 | 3,186 | 6,547 |
| Compact Fluorescent | 20,666 | 16,731 | 13,325 | 3,377 | Q | 3,935 | 679 | 1,203 | 2,054 |
| High Intensity Discharge | 19,223 | 13,702 | 10,325 | 3,376 | N | 5,521 | 685 | 1,631 | 3,206 |
| Halogen | 17,926 | 15,034 | 11,336 | 3,668 | Q | 2,892 | 411 | 899 | 1,582 |
| Other | 1,004 | 823 | 665 | Q | N | Q | Q | Q | Q |
| Personal Computers | | | | | | | | | |
| None | 9,583 | 8,678 | 5,680 | 1,643 | 1,354 | 906 | Q | Q | 683 |
| 1 to 4 | 13,853 | 12,564 | 8,657 | 3,851 | Q | 1,288 | Q | 368 | 793 |
| 5 to 9 | 6,528 | 5,864 | 3,670 | 2,168 | Q | 664 | Q | Q | 415 |
| 10 to 19 | 7,514 | 6,527 | 4,232 | 2,118 | Q | 987 | Q | 333 | 607 |
| 20 to 49 | 8,087 | 6,394 | 4,173 | 2,221 | N | 1,693 | Q | 389 | 1,063 |
| 50 to 99 | 5,867 | 4,208 | 2,566 | 1,642 | N | 1,659 | Q | 531 | 1,058 |
| 100 to 249 | 6,818 | 4,346 | 3,342 | 1,004 | N | 2,472 | 211 | 780 | 1,481 |
| 250 or More | 9,088 | 6,414 | 5,467 | 947 | N | 2,674 | 838 | 780 | 1,056 |
| Photocopiers | | | | | | | | | |
| None | 21,631 | 18,933 | 11,799 | 5,592 | 1,541 | 2,698 | 302 | 655 | 1,742 |
| One | 12,928 | 11,141 | 8,151 | 2,926 | Q | 1,787 | Q | 524 | 1,077 |
| 2 to 4 | 15,620 | 11,904 | 8,583 | 3,314 | Q | 3,716 | 362 | 948 | 2,406 |
| 5 to 9 | 5,384 | 3,812 | 2,341 | 1,471 | N | 1,572 | Q | 455 | 971 |
| 10 or More | 11,774 | 9,204 | 6,912 | 2,292 | N | 2,570 | 802 | 808 | 960 |
| Other Electronic Equipment (more than one may apply) | | | | | | | | | |
| Laser Printers | 46,567 | 36,966 | 26,002 | 10,870 | Q | 9,601 | 1,588 | 2,708 | 5,305 |
| FAX Machines | 54,764 | 44,675 | 30,954 | 13,591 | Q | 10,088 | 1,578 | 2,706 | 5,805 |
| Medical Diagnostic Equipment | 2,493 | 2,099 | 1,845 | 254 | N | 394 | Q | Q | 215 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | |
| Commercial Food Preparation | 23,328 | 17,300 | 13,104 | 4,179 | Q | 6,028 | 808 | 1,512 | 3,708 |
| Activities with Large Amounts of Hot Water | 21,793 | 16,229 | 12,862 | 3,350 | Q | 5,564 | 644 | 1,693 | 3,227 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | |
| Multipaned Windows | 38,193 | 31,154 | 23,284 | 7,556 | 314 | 7,039 | 987 | 1,979 | 4,073 |
| Tinted, Reflective, or Shading Glass | 29,915 | 24,218 | 17,092 | 6,985 | Q | 5,698 | 860 | 1,547 | 3,291 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | |
| Variable Air-Volume System | 19,387 | 14,961 | 11,395 | 3,560 | Q | 4,425 | 759 | 1,422 | 2,244 |
| Economizer Cycle | 21,256 | 15,806 | 11,650 | 4,140 | Q | 5,450 | 1,153 | 1,738 | 2,559 |
| HVAC Maintenance | 53,395 | 42,540 | 30,270 | 12,105 | Q | 10,855 | 1,636 | 3,135 | 6,084 |
| Energy Management and Control System (EMCS) | 21,613 | 15,140 | 11,878 | 3,252 | Q | 6,473 | 1,201 | 2,060 | 3,211 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | |
| Specular Reflectors | 19,994 | 15,640 | 11,384 | 4,247 | Q | 4,354 | 805 | 1,091 | 2,458 |
| Electronic Ballasts | 42,035 | 33,247 | 23,537 | 9,680 | Q | 8,789 | 1,332 | 2,501 | 4,957 |
| Skylights or Atriums | 18,286 | 14,429 | 10,683 | 3,537 | Q | 3,857 | 512 | 1,254 | 2,091 |

Table B13. Occupancy of Nongovernment-Owned and Government Owned Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|-----------------------------------|----------------|-------------------|------------|--------------------------------|---------|-------|-------|
| | All Buildings | Nongovernment-Owned Buildings | | | | Government-Owned Buildings | | | |
| | | All Nongovernment-Owned Buildings | Owner Occupied | Nonowner Occupied | Unoccupied | All Government-Owned Buildings | Federal | State | Local |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | |
| Heating | 39,969 | 31,903 | 22,534 | 9,112 | 258 | 8,066 | 978 | 2,012 | 5,076 |
| Cooling | 39,161 | 31,707 | 21,722 | 9,679 | Q | 7,454 | 871 | 1,825 | 4,758 |
| Lighting | 51,083 | 41,690 | 28,512 | 13,178 | N | 9,394 | 1,069 | 2,521 | 5,804 |
| Office Equipment | 9,063 | 5,637 | 4,010 | 1,627 | N | 3,426 | Q | 963 | 2,339 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B14. Number of Establishments in Building, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|--|--------------------------------|--------------------------------------|-------------|------------|------------------|------------------|----------------------|
| | All Buildings | Number of Establishments in Building | | | | | |
| | | One | Two to Five | Six to Ten | Eleven to Twenty | More than Twenty | Currently Unoccupied |
| All Buildings | 4,657 | 3,528 | 688 | 114 | 48 | 27 | 251 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,897 | 272 | Q | Q | Q | 164 |
| 5,001 to 10,000 | 1,110 | 802 | 222 | 17 | Q | Q | Q |
| 10,001 to 25,000 | 708 | 506 | 121 | 51 | 12 | Q | 17 |
| 25,001 to 50,000 | 257 | 184 | 33 | 15 | 15 | Q | Q |
| 50,001 to 100,000 | 145 | 88 | 26 | 12 | 12 | 6 | Q |
| 100,001 to 200,000 | 59 | 34 | 10 | 4 | 6 | 5 | Q |
| 200,001 to 500,000 | 23 | 14 | 3 | 2 | 2 | 2 | Q |
| Over 500,000 | 7 | 3 | 1 | Q | Q | 3 | Q |
| Principal Building Activity | | | | | | | |
| Education | 327 | 302 | 24 | Q | Q | Q | N |
| Food Sales | 174 | 161 | Q | N | N | Q | N |
| Food Service | 349 | 315 | Q | Q | N | N | N |
| Health Care | 127 | 94 | 27 | Q | 2 | Q | N |
| Inpatient | 11 | 10 | Q | Q | Q | Q | N |
| Outpatient | 116 | 84 | 26 | Q | Q | Q | N |
| Lodging | 153 | 143 | 10 | Q | N | Q | N |
| Mercantile | 667 | 450 | 131 | 53 | 17 | 8 | Q |
| Retail (Other Than Mall) | 534 | 449 | 69 | Q | Q | Q | Q |
| Enclosed and Strip Malls | 133 | Q | 62 | 46 | 17 | 8 | N |
| Office | 739 | 475 | 206 | 34 | 17 | 8 | N |
| Public Assembly | 305 | 262 | 27 | Q | Q | Q | Q |
| Public Order and Safety | 72 | 60 | Q | Q | Q | N | N |
| Religious Worship | 307 | 286 | 20 | Q | N | N | N |
| Service | 478 | 362 | 110 | Q | Q | N | Q |
| Warehouse and Storage | 603 | 452 | 69 | 7 | Q | Q | Q |
| Other | 102 | 89 | Q | Q | Q | Q | N |
| Vacant | 253 | 77 | Q | Q | Q | N | 169 |
| Year Constructed | | | | | | | |
| 1919 or Before | 419 | 312 | 64 | Q | Q | Q | 36 |
| 1920 to 1945 | 499 | 384 | 84 | Q | Q | 1 | 22 |
| 1946 to 1959 | 763 | 581 | 100 | Q | Q | Q | 62 |
| 1960 to 1969 | 665 | 524 | 81 | 9 | 5 | Q | Q |
| 1970 to 1979 | 774 | 591 | 124 | 22 | 15 | 4 | Q |
| 1980 to 1989 | 846 | 605 | 138 | 47 | 15 | 7 | Q |
| 1990 to 1999 | 690 | 531 | 98 | 10 | 7 | 3 | Q |
| Floors | | | | | | | |
| One | 2,879 | 2,231 | 379 | 52 | 25 | 13 | 179 |
| Two | 1,168 | 873 | 191 | 41 | 10 | 6 | 48 |
| Three | 420 | 308 | 74 | Q | 3 | Q | Q |
| Four to Nine | 178 | 112 | 43 | 8 | 7 | 5 | Q |
| Ten or More | 11 | 4 | 1 | 1 | 2 | 3 | Q |
| Census Region | | | | | | | |
| Northeast | 686 | 531 | 113 | 15 | 8 | 4 | Q |
| Midwest | 1,188 | 860 | 190 | 22 | 7 | 4 | 103 |
| South | 1,762 | 1,392 | 231 | 41 | 17 | 9 | 72 |
| West | 1,021 | 745 | 154 | 36 | 16 | Q | 60 |
| Climate Zone: 45-Year Average | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | |
| More than 7,000 HDD | 525 | 414 | 82 | Q | Q | Q | Q |
| 5,500-7,000 HDD | 986 | 727 | 158 | 14 | 8 | 6 | 73 |
| 4,000-5,499 HDD | 1,085 | 793 | 180 | 32 | 7 | 7 | 66 |
| Fewer than 4,000 HDD | 1,134 | 868 | 146 | 48 | 18 | 4 | Q |
| 2,000 CDD or More and -- | | | | | | | |
| Fewer than 4,000 HDD | 926 | 725 | 123 | 16 | 11 | Q | 39 |

Table B14. Number of Establishments in Building, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|--|--------------------------------|--------------------------------------|-------------|------------|------------------|------------------|----------------------|
| | All Buildings | Number of Establishments in Building | | | | | |
| | | One | Two to Five | Six to Ten | Eleven to Twenty | More than Twenty | Currently Unoccupied |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 2,376 | 1,891 | 208 | Q | Q | Q | 251 |
| 5 to 9 | 807 | 610 | 193 | Q | Q | Q | N |
| 10 to 19 | 683 | 520 | 149 | 13 | Q | Q | N |
| 20 to 49 | 487 | 344 | 92 | 41 | 10 | Q | N |
| 50 to 99 | 174 | 89 | 30 | 27 | 22 | 6 | N |
| 100 to 249 | 90 | 54 | 12 | 9 | 10 | 5 | N |
| 250 or More | 39 | 19 | 5 | 3 | 4 | 8 | N |
| Ownership and Occupancy | | | | | | | |
| Nongovernment Owned | 4,135 | 3,084 | 631 | 111 | 47 | 27 | 236 |
| Owner Occupied | 2,801 | 2,317 | 395 | 58 | 14 | 18 | N |
| Nonowner Occupied | 1,099 | 767 | 236 | 54 | 33 | 9 | N |
| Unoccupied | 236 | N | N | N | N | N | 236 |
| Government Owned | 521 | 444 | 58 | 3 | Q | Q | Q |
| Vacancy Status | | | | | | | |
| Completely Vacant | 140 | N | N | N | N | N | 140 |
| Mostly Vacant | 113 | 77 | Q | Q | Q | N | 29 |
| Partially Vacant | 697 | 400 | 137 | 44 | 21 | 13 | 82 |
| Not At All Vacant | 3,707 | 3,051 | 549 | 66 | 26 | 15 | N |
| Multibuilding Facility Activity | | | | | | | |
| Not Part of a Multibuilding | | | | | | | |
| Facility | 3,295 | 2,446 | 532 | 58 | 33 | 19 | 207 |
| College or University | 70 | 66 | 3 | Q | Q | Q | Q |
| Primary or Secondary School | 224 | 221 | Q | N | N | Q | Q |
| Office Complex | 134 | 78 | 35 | 10 | 3 | 1 | Q |
| Retail Complex | 181 | 113 | 26 | 29 | 6 | 2 | Q |
| Religious Campus or Complex | 186 | 170 | Q | N | Q | N | N |
| Health Care Complex | 72 | 50 | Q | Q | Q | Q | Q |
| Government Complex | 61 | 49 | Q | Q | Q | N | N |
| Other | 434 | 335 | 47 | Q | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 4,395 | 3,437 | 680 | 113 | 48 | 27 | 90 |
| Natural Gas | 2,670 | 2,038 | 459 | 79 | 23 | 19 | 50 |
| Fuel Oil | 434 | 346 | 71 | 5 | 5 | 6 | Q |
| District Heat | 117 | 101 | 7 | Q | 1 | 1 | N |
| District Chilled Water | 50 | 44 | 3 | Q | Q | Q | N |
| Propane | 451 | 397 | 43 | Q | Q | Q | Q |
| Other | 153 | 140 | Q | Q | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,138 | 661 | 103 | 43 | 24 | 48 |
| Buildings with Cooling | 3,560 | 2,711 | 637 | 106 | 46 | 25 | 34 |
| Buildings with Water Heating | 3,239 | 2,507 | 538 | 96 | 37 | 23 | 38 |
| Buildings with Cooking | 857 | 673 | 106 | 44 | 17 | 16 | Q |
| Buildings with Manufacturing | 151 | 125 | 12 | Q | Q | Q | N |
| Buildings with Electricity Generation | 172 | 141 | 16 | 5 | 5 | 4 | Q |
| Heating Equipment (more than one may apply) | | | | | | | |
| Heat Pumps | 492 | 355 | 109 | 17 | 7 | 3 | Q |
| Furnaces | 1,460 | 1,132 | 282 | 22 | 7 | 1 | Q |
| Individual Space Heaters | 894 | 713 | 144 | 14 | Q | 3 | Q |
| District Heat | 96 | 80 | 6 | Q | Q | 1 | N |
| Boilers | 581 | 479 | 71 | 10 | 7 | Q | Q |
| Packaged Heating Units | 1,347 | 1,012 | 224 | 59 | 23 | 10 | Q |
| Other | 185 | 149 | 22 | Q | 3 | 2 | Q |

Table B14. Number of Establishments in Building, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|---|--------------------------------|--------------------------------------|-------------|------------|------------------|------------------|----------------------|
| | All Buildings | Number of Establishments in Building | | | | | |
| | | One | Two to Five | Six to Ten | Eleven to Twenty | More than Twenty | Currently Unoccupied |
| Cooling Equipment (more than one may apply) | | | | | | | |
| Residential-Type Central | | | | | | | |
| Air Conditioners | 676 | 506 | 149 | Q | 4 | 2 | Q |
| Heat Pumps | 485 | 339 | 118 | 18 | 7 | 3 | Q |
| Individual Air Conditioners | 799 | 612 | 151 | Q | Q | 3 | Q |
| District Chilled Water | 50 | 44 | 3 | Q | Q | Q | N |
| Central Chillers | 130 | 92 | 16 | 4 | 5 | 11 | Q |
| Packaged Air Conditioning | | | | | | | |
| Units | 1,953 | 1,469 | 322 | 84 | 31 | 14 | Q |
| Swamp Coolers | 136 | 124 | 8 | Q | Q | Q | N |
| Other | 49 | 44 | Q | Q | Q | Q | N |
| Lighting Equipment Types (more than one may apply) | | | | | | | |
| Incandescent | 2,193 | 1,746 | 329 | 61 | 29 | 19 | Q |
| Standard Fluorescent | 3,778 | 2,965 | 628 | 105 | 44 | 25 | Q |
| Compact Fluorescent | 607 | 451 | 108 | 28 | 11 | 9 | Q |
| High Intensity Discharge | 430 | 322 | 74 | 18 | 5 | Q | N |
| Halogen | 572 | 425 | 98 | 31 | 9 | 8 | Q |
| Other | 58 | 41 | Q | Q | Q | Q | N |
| Personal Computers | | | | | | | |
| None | 1,617 | 1,248 | 120 | Q | Q | Q | 233 |
| 1 to 4 | 1,636 | 1,323 | 268 | 34 | Q | Q | Q |
| 5 to 9 | 542 | 385 | 136 | 14 | Q | Q | Q |
| 10 to 19 | 403 | 271 | 78 | 32 | 7 | Q | Q |
| 20 to 49 | 247 | 174 | 47 | 11 | 11 | Q | N |
| 50 to 99 | 105 | 59 | 24 | 8 | 10 | 3 | Q |
| 100 to 249 | 71 | 45 | 10 | 6 | 5 | 4 | N |
| 250 or More | 36 | 23 | 4 | 2 | 3 | 5 | N |
| Photocopiers | | | | | | | |
| None | 2,825 | 2,231 | 295 | 30 | 14 | Q | 246 |
| One | 1,114 | 888 | 177 | 40 | Q | Q | Q |
| 2 to 4 | 540 | 346 | 167 | 13 | 9 | 5 | Q |
| 5 to 9 | 102 | 41 | 42 | 15 | 4 | Q | N |
| 10 or More | 75 | 22 | 8 | 16 | 18 | 11 | N |
| Other Electronic Equipment (more than one may apply) | | | | | | | |
| Laser Printers | 1,949 | 1,421 | 377 | 81 | 41 | 18 | Q |
| FAX Machines | 2,807 | 2,076 | 552 | 101 | 47 | 20 | Q |
| Medical Diagnostic Equipment | 86 | 53 | 26 | Q | 2 | Q | N |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B15. Number of Establishments in Building, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|--------------------------------------|-------------|------------|------------------|------------------|----------------------|
| | All Buildings | Number of Establishments in Building | | | | | |
| | | One | Two to Five | Six to Ten | Eleven to Twenty | More than Twenty | Currently Unoccupied |
| All Buildings | 67,338 | 43,343 | 10,582 | 3,574 | 3,260 | 4,811 | 1,769 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 6,774 | 5,358 | 857 | Q | Q | Q | 512 |
| 5,001 to 10,000 | 8,238 | 5,952 | 1,630 | 137 | Q | Q | Q |
| 10,001 to 25,000 | 11,153 | 7,812 | 1,982 | 784 | Q | Q | 296 |
| 25,001 to 50,000 | 9,311 | 6,720 | 1,220 | 550 | 494 | Q | Q |
| 50,001 to 100,000 | 10,112 | 6,063 | 1,833 | 845 | 839 | 432 | Q |
| 100,001 to 200,000 | 8,271 | 4,798 | 1,453 | 480 | 790 | 690 | Q |
| 200,001 to 500,000 | 6,851 | 4,126 | 931 | 498 | 455 | 702 | Q |
| Over 500,000 | 6,628 | 2,514 | 676 | Q | 416 | 2,771 | Q |
| Principal Building Activity | | | | | | | |
| Education | 8,651 | 7,947 | 657 | Q | Q | Q | N |
| Food Sales | 994 | 808 | Q | N | N | Q | N |
| Food Service | 1,851 | 1,638 | Q | Q | N | N | N |
| Health Care | 2,918 | 2,139 | 341 | Q | 157 | Q | N |
| Inpatient | 1,865 | 1,611 | Q | Q | Q | Q | N |
| Outpatient | 1,053 | 529 | 195 | Q | Q | Q | N |
| Lodging | 4,521 | 3,724 | 617 | Q | N | Q | N |
| Mercantile | 10,398 | 3,831 | 1,618 | 1,387 | 1,205 | 2,315 | Q |
| Retail (Other Than Mall) | 4,766 | 3,756 | 783 | Q | Q | Q | Q |
| Enclosed and Strip Malls | 5,631 | Q | 836 | 1,261 | 1,171 | 2,289 | N |
| Office | 12,044 | 5,073 | 2,502 | 1,369 | 1,395 | 1,705 | N |
| Public Assembly | 4,393 | 3,122 | 821 | Q | Q | Q | Q |
| Public Order and Safety | 1,168 | 773 | 320 | Q | Q | N | N |
| Religious Worship | 3,405 | 3,016 | 373 | Q | N | N | N |
| Service | 3,388 | 2,674 | 672 | Q | Q | N | Q |
| Warehouse and Storage | 10,477 | 7,097 | 2,104 | 313 | Q | Q | Q |
| Other | 1,222 | 913 | Q | Q | Q | Q | N |
| Vacant | 1,908 | 586 | Q | Q | Q | N | 1,217 |
| Year Constructed | | | | | | | |
| 1919 or Before | 4,034 | 2,804 | 593 | Q | Q | Q | 261 |
| 1920 to 1945 | 6,445 | 4,327 | 1,236 | Q | Q | 255 | 234 |
| 1946 to 1959 | 9,127 | 6,244 | 1,543 | Q | Q | Q | 468 |
| 1960 to 1969 | 10,866 | 7,779 | 1,279 | 496 | 321 | 766 | Q |
| 1970 to 1979 | 11,840 | 7,185 | 1,798 | 663 | 947 | 1,091 | Q |
| 1980 to 1989 | 13,931 | 7,382 | 2,388 | 1,251 | 988 | 1,622 | Q |
| 1990 to 1999 | 11,094 | 7,622 | 1,745 | 485 | 498 | 621 | Q |
| Floors | | | | | | | |
| One | 26,800 | 17,636 | 4,381 | 1,480 | 1,351 | 918 | 1,035 |
| Two | 16,985 | 11,651 | 2,655 | 738 | 425 | 1,193 | 324 |
| Three | 8,928 | 6,346 | 1,517 | 301 | 189 | Q | Q |
| Four to Nine | 10,180 | 6,313 | 1,555 | 737 | 696 | 779 | Q |
| Ten or More | 4,445 | 1,398 | 475 | 317 | 599 | 1,603 | Q |
| Census Region | | | | | | | |
| Northeast | 12,360 | 7,665 | 2,186 | 494 | 705 | 1,159 | Q |
| Midwest | 16,761 | 11,299 | 2,900 | 571 | 579 | 864 | 548 |
| South | 23,485 | 14,723 | 3,421 | 1,440 | 1,239 | 2,000 | 662 |
| West | 14,731 | 9,655 | 2,075 | 1,068 | 738 | 788 | 407 |
| Climate Zone: 45-Year Average | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | |
| More than 7,000 HDD | 5,890 | 4,124 | 1,099 | Q | Q | Q | Q |
| 5,500-7,000 HDD | 17,083 | 11,387 | 2,746 | 590 | 776 | 1,162 | 422 |
| 4,000-5,499 HDD | 16,243 | 10,037 | 2,864 | 888 | 696 | 1,349 | 409 |
| Fewer than 4,000 HDD | 16,333 | 10,345 | 2,323 | 1,278 | 833 | 1,024 | 531 |
| 2,000 CDD or More and -- | | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 7,449 | 1,549 | 617 | 753 | 1,134 | 285 |

Table B15. Number of Establishments in Building, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|--------------------------------------|-------------|------------|------------------|------------------|----------------------|
| | All Buildings | Number of Establishments in Building | | | | | |
| | | One | Two to Five | Six to Ten | Eleven to Twenty | More than Twenty | Currently Unoccupied |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 14,321 | 10,723 | 1,619 | Q | Q | Q | 1,769 |
| 5 to 9 | 6,325 | 4,718 | 1,459 | Q | Q | Q | N |
| 10 to 19 | 8,028 | 6,063 | 1,701 | 216 | Q | Q | N |
| 20 to 49 | 10,814 | 7,280 | 2,204 | 918 | 389 | Q | N |
| 50 to 99 | 8,898 | 5,111 | 1,554 | 773 | 1,021 | 440 | N |
| 100 to 249 | 8,356 | 4,796 | 1,053 | 752 | 992 | 764 | N |
| 250 or More | 10,595 | 4,651 | 992 | 683 | 789 | 3,480 | N |
| Ownership and Occupancy | | | | | | | |
| Nongovernment Owned | 54,994 | 33,290 | 9,077 | 3,369 | 3,097 | 4,549 | 1,613 |
| Owner Occupied | 37,785 | 25,947 | 5,371 | 1,699 | 1,336 | 3,433 | N |
| Nonowner Occupied | 15,596 | 7,343 | 3,706 | 1,670 | 1,761 | 1,116 | N |
| Unoccupied | 1,613 | N | N | N | N | N | 1,613 |
| Government Owned | 12,343 | 10,053 | 1,505 | 205 | Q | Q | Q |
| Vacancy Status | | | | | | | |
| Completely Vacant | 953 | N | N | N | N | N | 953 |
| Mostly Vacant | 956 | 586 | Q | Q | Q | N | 264 |
| Partially Vacant | 15,520 | 5,698 | 2,238 | 1,700 | 1,821 | 3,513 | 552 |
| Not At All Vacant | 49,910 | 37,058 | 8,276 | 1,850 | 1,427 | 1,298 | N |
| Multibuilding Facility Activity | | | | | | | |
| Not Part of a Multibuilding | | | | | | | |
| Facility | 41,289 | 26,162 | 6,621 | 1,770 | 2,047 | 3,271 | 1,419 |
| College or University | 2,605 | 2,336 | 186 | Q | Q | Q | Q |
| Primary or Secondary School | 3,388 | 3,229 | Q | N | N | Q | Q |
| Office Complex | 3,353 | 1,220 | 787 | 533 | 463 | 284 | Q |
| Retail Complex | 3,555 | 1,035 | 466 | 799 | 396 | 839 | Q |
| Religious Campus or Complex | 1,907 | 1,665 | Q | N | Q | N | N |
| Health Care Complex | 2,339 | 1,673 | 334 | Q | Q | Q | Q |
| Government Complex | 1,513 | 1,025 | 400 | Q | Q | N | N |
| Other | 7,389 | 4,998 | 1,439 | 263 | Q | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 65,716 | 42,839 | 10,442 | 3,568 | 3,260 | 4,809 | 797 |
| Natural Gas | 45,525 | 29,717 | 7,439 | 2,463 | 1,786 | 3,596 | 525 |
| Fuel Oil | 13,285 | 8,327 | 1,795 | 481 | 810 | 1,861 | Q |
| District Heat | 5,891 | 4,149 | 559 | 331 | 171 | 681 | N |
| District Chilled Water | 2,750 | 2,117 | 207 | Q | Q | Q | N |
| Propane | 6,290 | 4,921 | 728 | Q | Q | Q | Q |
| Other | 2,322 | 1,676 | Q | Q | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 61,602 | 40,297 | 10,038 | 3,289 | 2,993 | 4,563 | 422 |
| Buildings with Cooling | 58,474 | 37,062 | 9,632 | 3,453 | 3,168 | 4,741 | 417 |
| Buildings with Water Heating | 56,115 | 36,207 | 8,866 | 3,191 | 2,828 | 4,595 | 427 |
| Buildings with Cooking | 24,681 | 14,870 | 3,143 | 1,541 | 1,611 | 3,483 | Q |
| Buildings with Manufacturing | 3,126 | 2,094 | 524 | Q | Q | Q | N |
| Buildings with Electricity Generation | 11,882 | 7,109 | 1,523 | 537 | 761 | 1,927 | Q |
| Heating Equipment (more than one may apply) | | | | | | | |
| Heat Pumps | 8,923 | 5,009 | 1,741 | 529 | 559 | 1,067 | Q |
| Furnaces | 14,449 | 10,187 | 3,020 | 420 | 346 | 378 | Q |
| Individual Space Heaters | 17,349 | 11,358 | 3,263 | 652 | 690 | 1,294 | Q |
| District Heat | 5,534 | 3,847 | 517 | 331 | Q | 681 | N |
| Boilers | 19,522 | 13,385 | 2,861 | 787 | 821 | 1,592 | Q |
| Packaged Heating Units | 25,743 | 15,436 | 3,885 | 1,967 | 1,615 | 2,656 | Q |
| Other | 4,073 | 2,266 | 464 | Q | 280 | 830 | Q |

Table B15. Number of Establishments in Building, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|---|--|--------------------------------------|-------------|------------|------------------|------------------|----------------------|
| | All Buildings | Number of Establishments in Building | | | | | Currently Unoccupied |
| | | One | Two to Five | Six to Ten | Eleven to Twenty | More than Twenty | |
| Cooling Equipment (more than one may apply) | | | | | | | |
| Residential-Type Central | | | | | | | |
| Air Conditioners | 8,329 | 5,833 | 1,554 | 190 | 230 | 516 | Q |
| Heat Pumps | 9,147 | 5,058 | 1,869 | 584 | 556 | 1,062 | Q |
| Individual Air Conditioners | 14,276 | 10,302 | 2,282 | 427 | 398 | 656 | Q |
| District Chilled Water | 2,750 | 2,117 | 207 | Q | Q | Q | N |
| Central Chillers | 12,909 | 7,088 | 1,609 | 681 | 833 | 2,651 | Q |
| Packaged Air Conditioning | | | | | | | |
| Units | 36,527 | 22,190 | 5,848 | 2,742 | 2,154 | 3,260 | Q |
| Swamp Coolers | 2,219 | 1,662 | 223 | Q | Q | Q | N |
| Other | 1,312 | 820 | Q | Q | Q | Q | N |
| Lighting Equipment Types (more than one may apply) | | | | | | | |
| Incandescent | 38,156 | 24,358 | 5,930 | 2,026 | 2,219 | 3,540 | Q |
| Standard Fluorescent | 60,344 | 39,064 | 9,845 | 3,393 | 3,126 | 4,750 | Q |
| Compact Fluorescent | 20,666 | 11,751 | 3,131 | 1,386 | 1,205 | 3,165 | Q |
| High Intensity Discharge | 19,223 | 12,406 | 2,730 | 856 | 692 | 2,539 | N |
| Halogen | 17,926 | 10,103 | 2,625 | 1,168 | 1,026 | 2,974 | Q |
| Other | 1,004 | 499 | Q | Q | Q | Q | N |
| Personal Computers | | | | | | | |
| None | 9,583 | 6,911 | 951 | Q | Q | Q | 1,498 |
| 1 to 4 | 13,853 | 10,377 | 2,558 | 535 | Q | Q | Q |
| 5 to 9 | 6,528 | 4,408 | 1,497 | 329 | Q | Q | Q |
| 10 to 19 | 7,514 | 4,351 | 1,568 | 654 | 376 | Q | Q |
| 20 to 49 | 8,087 | 5,115 | 1,488 | 504 | 669 | 310 | N |
| 50 to 99 | 5,867 | 3,540 | 846 | 372 | 543 | 555 | Q |
| 100 to 249 | 6,818 | 3,795 | 859 | 522 | 563 | 1,079 | N |
| 250 or More | 9,088 | 4,845 | 814 | 537 | 669 | 2,224 | N |
| Photocopiers | | | | | | | |
| None | 21,631 | 15,084 | 2,969 | 828 | 609 | 455 | 1,685 |
| One | 12,928 | 10,025 | 2,011 | 555 | Q | Q | Q |
| 2 to 4 | 15,620 | 10,518 | 3,419 | 536 | 473 | 656 | Q |
| 5 to 9 | 5,384 | 3,160 | 1,139 | 482 | 272 | Q | N |
| 10 or More | 11,774 | 4,555 | 1,044 | 1,172 | 1,817 | 3,187 | N |
| Other Electronic Equipment (more than one may apply) | | | | | | | |
| Laser Printers | 46,567 | 28,624 | 7,497 | 2,882 | 2,963 | 4,495 | Q |
| FAX Machines | 54,764 | 33,961 | 9,305 | 3,398 | 3,233 | 4,725 | Q |
| Medical Diagnostic Equipment | 2,493 | 1,727 | 328 | Q | 157 | Q | N |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B16. Multibuilding Facilities, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | Total Floorspace (million square feet) | | |
|--|--------------------------------|---------------------------------------|-----------------------------|--|---------------------------------------|-----------------------------|
| | All Buildings | Buildings on Multibuilding Facilities | | All Buildings | Buildings on Multibuilding Facilities | |
| | | All Buildings | With Central Physical Plant | | All Buildings | With Central Physical Plant |
| All Buildings | 4,657 | 1,362 | 142 | 67,338 | 26,049 | 7,101 |
| Building Floorspace (Square Feet) | | | | | | |
| 1,001 to 5,000 | 2,348 | 604 | Q | 6,774 | 1,706 | Q |
| 5,001 to 10,000 | 1,110 | 297 | Q | 8,238 | 2,211 | Q |
| 10,001 to 25,000 | 708 | 253 | 26 | 11,153 | 3,965 | 464 |
| 25,001 to 50,000 | 257 | 104 | 26 | 9,311 | 3,728 | 901 |
| 50,001 to 100,000 | 145 | 63 | 17 | 10,112 | 4,498 | 1,274 |
| 100,001 to 200,000 | 59 | 27 | 8 | 8,271 | 3,799 | 1,159 |
| 200,001 to 500,000 | 23 | 10 | 5 | 6,851 | 3,107 | 1,538 |
| Over 500,000 | 7 | 3 | 2 | 6,628 | 3,036 | 1,484 |
| Principal Building Activity | | | | | | |
| Education | 327 | 229 | 38 | 8,651 | 4,574 | 1,812 |
| Food Sales | 174 | Q | Q | 994 | Q | Q |
| Food Service | 349 | 38 | Q | 1,851 | 271 | Q |
| Health Care | 127 | 29 | 8 | 2,918 | 1,823 | 1,100 |
| Inpatient | 11 | 5 | 3 | 1,865 | 1,401 | 963 |
| Outpatient | 116 | 24 | Q | 1,053 | 423 | 137 |
| Lodging | 153 | 88 | 23 | 4,521 | 1,751 | 735 |
| Mercantile | 667 | 112 | Q | 10,398 | 2,995 | Q |
| Retail (Other Than Mall) | 534 | 73 | Q | 4,766 | 861 | Q |
| Enclosed and Strip Malls | 133 | 39 | Q | 5,631 | 2,134 | Q |
| Office | 739 | 229 | 21 | 12,044 | 4,769 | 1,280 |
| Public Assembly | 305 | 121 | 18 | 4,393 | 2,093 | 904 |
| Public Order and Safety | 72 | 22 | 3 | 1,168 | 529 | 206 |
| Religious Worship | 307 | 108 | Q | 3,405 | 1,276 | Q |
| Service | 478 | 63 | Q | 3,388 | 818 | Q |
| Warehouse and Storage | 603 | 234 | Q | 10,477 | 3,987 | Q |
| Other | 102 | 22 | Q | 1,222 | 519 | 253 |
| Vacant | 253 | 53 | Q | 1,908 | 514 | Q |
| Year Constructed | | | | | | |
| 1919 or Before | 419 | 94 | 20 | 4,034 | 1,038 | 413 |
| 1920 to 1945 | 499 | 129 | 21 | 6,445 | 2,331 | 579 |
| 1946 to 1959 | 763 | 200 | 30 | 9,127 | 3,484 | 1,360 |
| 1960 to 1969 | 665 | 191 | 26 | 10,866 | 4,385 | 1,894 |
| 1970 to 1979 | 774 | 228 | 14 | 11,840 | 5,040 | 1,255 |
| 1980 to 1989 | 846 | 322 | 23 | 13,931 | 5,871 | 916 |
| 1990 to 1999 | 690 | 199 | 8 | 11,094 | 3,901 | 684 |
| Census Region | | | | | | |
| Northeast | 686 | 150 | 33 | 12,360 | 4,037 | 1,418 |
| Midwest | 1,188 | 250 | 28 | 16,761 | 5,826 | 1,721 |
| South | 1,762 | 544 | 30 | 23,485 | 9,207 | 1,649 |
| West | 1,021 | 418 | 51 | 14,731 | 6,978 | 2,313 |
| Workers (main shift) | | | | | | |
| Fewer than 5 | 2,376 | 620 | 42 | 14,321 | 4,556 | 576 |
| 5 to 9 | 807 | 190 | 16 | 6,325 | 2,124 | 370 |
| 10 to 19 | 683 | 210 | 31 | 8,028 | 2,442 | 534 |
| 20 to 49 | 487 | 219 | 20 | 10,814 | 4,535 | 841 |
| 50 to 99 | 174 | 63 | 14 | 8,898 | 3,645 | 730 |
| 100 to 249 | 90 | 40 | 10 | 8,356 | 3,561 | 1,332 |
| 250 or More | 39 | 21 | 9 | 10,595 | 5,185 | 2,718 |

Table B16. Multibuilding Facilities, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | Total Floorspace (million square feet) | | |
|--|--------------------------------|---------------------------------------|-----------------------------|--|---------------------------------------|-----------------------------|
| | All Buildings | Buildings on Multibuilding Facilities | | All Buildings | Buildings on Multibuilding Facilities | |
| | | All Buildings | With Central Physical Plant | | All Buildings | With Central Physical Plant |
| Weekly Operating Hours | | | | | | |
| 39 or Fewer | 978 | 301 | Q | 6,596 | 2,207 | Q |
| 40 to 48 | 1,156 | 325 | 43 | 13,105 | 5,113 | 1,022 |
| 49 to 60 | 986 | 288 | 22 | 14,200 | 5,255 | 1,171 |
| 61 to 84 | 664 | 184 | 18 | 12,458 | 4,500 | 1,186 |
| 85 to 167 | 474 | 93 | 8 | 9,116 | 3,412 | 935 |
| Open Continuously | 398 | 171 | 42 | 11,863 | 5,562 | 2,657 |
| Ownership and Occupancy | | | | | | |
| Nongovernment Owned | 4,135 | 1,038 | 79 | 54,994 | 19,102 | 3,929 |
| Owner Occupied | 2,801 | 751 | 65 | 37,785 | 13,745 | 3,395 |
| Nonowner Occupied | 1,099 | 244 | 13 | 15,596 | 5,072 | 495 |
| Unoccupied | 236 | 43 | Q | 1,613 | 285 | Q |
| Government Owned | 521 | 324 | 64 | 12,343 | 6,947 | 3,172 |
| Vacancy Status | | | | | | |
| Completely Vacant | 140 | Q | Q | 953 | Q | Q |
| Mostly Vacant | 113 | 36 | Q | 956 | 361 | Q |
| Partially Vacant | 697 | 263 | 17 | 15,520 | 6,196 | 1,484 |
| Not At All Vacant | 3,707 | 1,047 | 124 | 49,910 | 19,339 | 5,546 |
| Multibuilding Facility Activity | | | | | | |
| Not Part of a Multibuilding | | | | | | |
| Facility | 3,295 | N | N | 41,289 | N | N |
| College or University | 70 | 70 | 53 | 2,605 | 2,605 | 2,064 |
| Primary or Secondary School | 224 | 224 | 25 | 3,388 | 3,388 | 899 |
| Office Complex | 134 | 134 | 3 | 3,353 | 3,353 | 583 |
| Retail Complex | 181 | 181 | Q | 3,555 | 3,555 | Q |
| Religious Campus or Complex | 186 | 186 | Q | 1,907 | 1,907 | Q |
| Health Care Complex | 72 | 72 | 16 | 2,339 | 2,339 | 1,303 |
| Government Complex | 61 | 61 | 19 | 1,513 | 1,513 | 731 |
| Other | 434 | 434 | 15 | 7,389 | 7,389 | 1,140 |
| Central Plant that Produces | | | | | | |
| District Hot Water | 97 | 97 | 97 | 4,468 | 4,468 | 4,468 |
| District Steam | 91 | 91 | 91 | 4,409 | 4,409 | 4,409 |
| District Chilled Water | 88 | 88 | 88 | 4,951 | 4,951 | 4,951 |
| Electricity | 32 | 32 | 32 | 1,377 | 1,377 | 1,377 |
| Energy Sources (more than one may apply) | | | | | | |
| Electricity | 4,395 | 1,262 | 141 | 65,716 | 25,399 | 7,075 |
| Natural Gas | 2,670 | 663 | 67 | 45,525 | 16,613 | 4,161 |
| Fuel Oil | 434 | 98 | 18 | 13,285 | 5,401 | 2,321 |
| District Heat | 117 | 85 | 69 | 5,891 | 4,318 | 3,617 |
| District Chilled Water | 50 | 47 | 35 | 2,750 | 2,441 | 2,066 |
| Propane | 451 | 112 | 4 | 6,290 | 2,041 | 396 |
| Other | 153 | 19 | Q | 2,322 | 681 | Q |
| Energy End Uses (more than one may apply) | | | | | | |
| Buildings with Space Heating | 4,016 | 1,139 | 138 | 61,602 | 23,532 | 6,842 |
| Buildings with Cooling | 3,560 | 993 | 115 | 58,474 | 22,088 | 6,270 |
| Buildings with Water Heating | 3,239 | 878 | 126 | 56,115 | 21,410 | 6,378 |
| Buildings with Cooking | 857 | 187 | 32 | 24,681 | 9,202 | 3,171 |
| Buildings with Manufacturing | 151 | 25 | Q | 3,126 | 983 | Q |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B17. Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|--|--------------------------------|---------------------------------------|---|-------------|----------|---------------|------------------------|---------|--------------------|
| | All Buildings | All Buildings Using Any Energy Source | Energy Sources Used (more than one may apply) | | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | District Chilled Water | Propane | Other ^a |
| All Buildings | 4,657 | 4,403 | 4,395 | 2,670 | 434 | 117 | 50 | 451 | 153 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 2,193 | 2,186 | 1,193 | 220 | Q | Q | 215 | 93 |
| 5,001 to 10,000 | 1,110 | 1,036 | 1,036 | 684 | 74 | Q | Q | 124 | Q |
| 10,001 to 25,000 | 708 | 689 | 688 | 448 | 65 | 24 | Q | 74 | 19 |
| 25,001 to 50,000 | 257 | 253 | 253 | 176 | 28 | 19 | 7 | 17 | 7 |
| 50,001 to 100,000 | 145 | 143 | 143 | 103 | 22 | 13 | 7 | 13 | 5 |
| 100,001 to 200,000 | 59 | 59 | 59 | 42 | 13 | 7 | 5 | 6 | Q |
| 200,001 to 500,000 | 23 | 23 | 23 | 18 | 9 | 3 | 2 | 2 | Q |
| Over 500,000 | 7 | 7 | 7 | 5 | 4 | 2 | 1 | 1 | Q |
| Principal Building Activity | | | | | | | | | |
| Education | 327 | 327 | 327 | 225 | 19 | 37 | Q | 17 | 7 |
| Food Sales | 174 | 173 | 173 | 88 | Q | Q | N | Q | Q |
| Food Service | 349 | 349 | 349 | 246 | Q | Q | Q | 78 | Q |
| Health Care | 127 | 127 | 127 | 73 | 14 | 3 | 2 | Q | Q |
| Inpatient | 11 | 11 | 11 | 9 | 9 | 3 | 2 | Q | Q |
| Outpatient | 116 | 116 | 116 | 63 | Q | Q | Q | Q | Q |
| Lodging | 153 | 153 | 153 | 104 | 7 | 18 | Q | 20 | Q |
| Mercantile | 667 | 667 | 667 | 439 | 87 | Q | Q | 37 | 38 |
| Retail (Other Than Mall) | 534 | 534 | 534 | 350 | 76 | Q | Q | 30 | Q |
| Enclosed and Strip Malls | 133 | 133 | 133 | 89 | Q | N | Q | 7 | Q |
| Office | 739 | 738 | 738 | 452 | 88 | 20 | 6 | 30 | 4 |
| Public Assembly | 305 | 299 | 299 | 187 | 24 | 15 | Q | 52 | Q |
| Public Order and Safety | 72 | 64 | 64 | 31 | 20 | 3 | Q | Q | Q |
| Religious Worship | 307 | 307 | 307 | 214 | 22 | Q | Q | 62 | Q |
| Service | 478 | 472 | 472 | 277 | 80 | Q | Q | 43 | Q |
| Warehouse and Storage | 603 | 496 | 496 | 226 | 18 | Q | Q | 50 | Q |
| Other | 102 | 98 | 98 | 40 | Q | Q | Q | Q | Q |
| Vacant | 253 | 130 | 123 | 68 | Q | Q | N | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 419 | 364 | 363 | 291 | 53 | 20 | Q | Q | Q |
| 1920 to 1945 | 499 | 480 | 480 | 329 | 55 | 9 | 2 | 45 | Q |
| 1946 to 1959 | 763 | 724 | 716 | 426 | 109 | 21 | 5 | 65 | 36 |
| 1960 to 1969 | 665 | 628 | 628 | 406 | 65 | 18 | 7 | 72 | 12 |
| 1970 to 1979 | 774 | 758 | 758 | 481 | 37 | Q | Q | 66 | 24 |
| 1980 to 1989 | 846 | 781 | 781 | 389 | 70 | 16 | Q | 89 | 39 |
| 1990 to 1999 | 690 | 669 | 669 | 349 | 45 | 15 | 4 | 94 | Q |
| Census Region | | | | | | | | | |
| Northeast | 686 | 640 | 639 | 311 | 218 | 31 | 2 | 112 | 21 |
| Midwest | 1,188 | 1,113 | 1,113 | 874 | 48 | 25 | 14 | 109 | 37 |
| South | 1,762 | 1,689 | 1,689 | 820 | 138 | 39 | Q | 167 | 64 |
| West | 1,021 | 961 | 954 | 665 | 30 | 22 | 13 | 62 | Q |
| Climate Zone: 45-Year Average | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | |
| More than 7,000 HDD | 525 | 491 | 491 | 329 | 73 | 3 | Q | 94 | Q |
| 5,500-7,000 HDD | 986 | 924 | 924 | 652 | 123 | 22 | 6 | 91 | 29 |
| 4,000-5,499 HDD | 1,085 | 1,029 | 1,029 | 551 | 185 | 46 | Q | 130 | 53 |
| Fewer than 4,000 HDD | 1,134 | 1,077 | 1,070 | 727 | 19 | 14 | 7 | 64 | 16 |
| 2,000 CDD or More and -- | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 882 | 882 | 410 | 34 | 33 | 23 | 72 | 48 |

Table B17. Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|---------------------------------------|---|-------------|----------|---------------|------------------------|---------|--------------------|
| | All Buildings | All Buildings Using Any Energy Source | Energy Sources Used (more than one may apply) | | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | District Chilled Water | Propane | Other ^a |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 2,376 | 2,129 | 2,121 | 1,151 | 182 | 38 | Q | 215 | 83 |
| 5 to 9 | 807 | 800 | 800 | 560 | 95 | 18 | Q | 71 | Q |
| 10 to 19 | 683 | 683 | 683 | 424 | 54 | 15 | Q | 74 | Q |
| 20 to 49 | 487 | 487 | 487 | 321 | 54 | 12 | 3 | 73 | 23 |
| 50 to 99 | 174 | 174 | 174 | 118 | 17 | 19 | 10 | 11 | 5 |
| 100 to 249 | 90 | 90 | 90 | 67 | 18 | 9 | 4 | 6 | Q |
| 250 or More | 39 | 39 | 39 | 28 | 15 | 7 | 5 | 2 | 1 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 978 | 777 | 770 | 376 | 65 | Q | Q | 135 | Q |
| 40 to 48 | 1,156 | 1,147 | 1,147 | 673 | 102 | 41 | Q | 98 | 36 |
| 49 to 60 | 986 | 980 | 980 | 651 | 110 | 18 | 13 | 55 | 42 |
| 61 to 84 | 664 | 649 | 649 | 447 | 63 | 17 | 6 | 56 | 29 |
| 85 to 167 | 474 | 459 | 459 | 285 | 29 | 14 | 4 | 69 | Q |
| Open Continuously | 398 | 390 | 390 | 238 | 65 | 26 | 11 | 39 | Q |
| Ownership and Occupancy | | | | | | | | | |
| Nongovernment Owned | 4,135 | 3,905 | 3,898 | 2,366 | 386 | 67 | 21 | 415 | 144 |
| Owner Occupied | 2,801 | 2,747 | 2,747 | 1,605 | 311 | 53 | 13 | 355 | 126 |
| Nonowner Occupied | 1,099 | 1,069 | 1,069 | 719 | 75 | Q | Q | 57 | 17 |
| Unoccupied | 236 | 89 | 82 | 43 | Q | N | N | Q | Q |
| Government Owned | 521 | 498 | 498 | 304 | 48 | 50 | 29 | 36 | 9 |
| Vacancy Status | | | | | | | | | |
| Completely Vacant | 140 | 51 | 44 | Q | N | N | N | Q | N |
| Mostly Vacant | 113 | 80 | 79 | 40 | Q | Q | N | Q | Q |
| Partially Vacant | 697 | 636 | 636 | 370 | 51 | Q | Q | 57 | Q |
| Not At All Vacant | 3,707 | 3,636 | 3,636 | 2,232 | 376 | 94 | 36 | 390 | 129 |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 4,395 | 4,395 | 4,395 | 2,663 | 434 | 117 | 50 | 451 | 153 |
| Natural Gas | 2,670 | 2,670 | 2,663 | 2,670 | 91 | 52 | 21 | 35 | 59 |
| Fuel Oil | 434 | 434 | 434 | 91 | 434 | 8 | 3 | 80 | 26 |
| District Heat | 117 | 117 | 117 | 52 | 8 | 117 | 43 | Q | Q |
| District Chilled Water | 50 | 50 | 50 | 21 | 3 | 43 | 50 | Q | Q |
| Propane | 451 | 451 | 451 | 35 | 80 | Q | Q | 451 | 36 |
| Other | 153 | 153 | 153 | 59 | 26 | Q | Q | 36 | 153 |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 4,016 | 4,008 | 2,588 | 432 | 116 | 49 | 434 | 149 |
| Buildings with Cooling | 3,560 | 3,560 | 3,560 | 2,335 | 302 | 97 | 50 | 318 | 107 |
| Buildings with Water Heating | 3,239 | 3,239 | 3,239 | 2,191 | 288 | 101 | 37 | 334 | 89 |
| Buildings with Cooking | 857 | 857 | 857 | 615 | 92 | 28 | 6 | 158 | 47 |
| Buildings with Manufacturing | 151 | 151 | 151 | 77 | 35 | Q | Q | Q | Q |
| Buildings with Electricity Generation | 172 | 172 | 172 | 118 | 75 | 15 | 5 | 27 | 33 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | |
| Commercial Food Preparation | 767 | 767 | 767 | 551 | 79 | 25 | 6 | 138 | 47 |
| Activities with Large Amounts of Hot Water | 698 | 698 | 698 | 542 | 77 | 47 | 20 | 108 | 29 |

^a "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B18. Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|--|--|---------------------------------------|---|-------------|----------|---------------|------------------------|---------|--------------------|
| | All Buildings | All Buildings Using Any Energy Source | Energy Sources Used (more than one may apply) | | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | District Chilled Water | Propane | Other ^a |
| All Buildings | 67,338 | 65,753 | 65,716 | 45,525 | 13,285 | 5,891 | 2,750 | 6,290 | 2,322 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 6,309 | 6,280 | 3,566 | 620 | Q | Q | 635 | 292 |
| 5,001 to 10,000 | 8,238 | 7,721 | 7,721 | 5,088 | 583 | Q | Q | 986 | Q |
| 10,001 to 25,000 | 11,153 | 10,851 | 10,843 | 7,001 | 983 | 414 | Q | 1,203 | 290 |
| 25,001 to 50,000 | 9,311 | 9,175 | 9,175 | 6,405 | 983 | 660 | 294 | 568 | 250 |
| 50,001 to 100,000 | 10,112 | 10,034 | 10,034 | 7,165 | 1,612 | 933 | 525 | 865 | 350 |
| 100,001 to 200,000 | 8,271 | 8,246 | 8,246 | 5,915 | 1,875 | 903 | 630 | 854 | Q |
| 200,001 to 500,000 | 6,851 | 6,790 | 6,790 | 5,282 | 2,984 | 1,003 | 470 | 616 | Q |
| Over 500,000 | 6,628 | 6,628 | 6,628 | 5,104 | 3,645 | 1,707 | 630 | 562 | Q |
| Principal Building Activity | | | | | | | | | |
| Education | 8,651 | 8,651 | 8,651 | 6,570 | 1,635 | 1,159 | 676 | 757 | 325 |
| Food Sales | 994 | 993 | 993 | 659 | Q | Q | N | Q | Q |
| Food Service | 1,851 | 1,851 | 1,851 | 1,510 | Q | Q | Q | 298 | Q |
| Health Care | 2,918 | 2,918 | 2,918 | 2,285 | 1,754 | 744 | 433 | Q | Q |
| Inpatient | 1,865 | 1,865 | 1,865 | 1,677 | 1,605 | 649 | 356 | Q | Q |
| Outpatient | 1,053 | 1,053 | 1,053 | 609 | Q | Q | Q | Q | Q |
| Lodging | 4,521 | 4,521 | 4,521 | 3,548 | 789 | 629 | 219 | 587 | Q |
| Mercantile | 10,398 | 10,398 | 10,398 | 7,887 | 1,411 | Q | Q | 863 | 365 |
| Retail (Other Than Mall) | 4,766 | 4,766 | 4,766 | 3,518 | 553 | Q | Q | 276 | Q |
| Enclosed and Strip Malls | 5,631 | 5,631 | 5,631 | 4,369 | 858 | N | Q | 587 | Q |
| Office | 12,044 | 12,043 | 12,043 | 7,356 | 3,913 | 1,536 | 678 | 370 | 192 |
| Public Assembly | 4,393 | 4,340 | 4,340 | 2,989 | 850 | 848 | 436 | 469 | Q |
| Public Order and Safety | 1,168 | 1,030 | 1,030 | 627 | 398 | 297 | Q | Q | Q |
| Religious Worship | 3,405 | 3,405 | 3,405 | 2,457 | 187 | Q | Q | 714 | Q |
| Service | 3,388 | 3,358 | 3,358 | 2,093 | 641 | Q | Q | 272 | Q |
| Warehouse and Storage | 10,477 | 9,879 | 9,879 | 6,211 | 1,102 | Q | Q | 1,338 | Q |
| Other | 1,222 | 1,217 | 1,217 | 707 | 205 | Q | Q | Q | Q |
| Vacant | 1,908 | 1,149 | 1,112 | 626 | Q | Q | N | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 4,034 | 3,722 | 3,714 | 2,766 | 745 | 486 | Q | Q | Q |
| 1920 to 1945 | 6,445 | 6,281 | 6,281 | 4,257 | 1,060 | 764 | 134 | 473 | Q |
| 1946 to 1959 | 9,127 | 8,822 | 8,794 | 6,040 | 1,782 | 1,088 | 406 | 748 | 433 |
| 1960 to 1969 | 10,866 | 10,686 | 10,686 | 7,512 | 2,349 | 1,406 | 633 | 1,220 | 353 |
| 1970 to 1979 | 11,840 | 11,750 | 11,750 | 8,080 | 2,446 | 788 | 492 | 1,033 | 352 |
| 1980 to 1989 | 13,931 | 13,485 | 13,485 | 8,794 | 2,795 | 682 | 424 | 1,333 | 499 |
| 1990 to 1999 | 11,094 | 11,007 | 11,007 | 8,076 | 2,108 | 677 | 407 | 1,295 | 353 |
| Census Region | | | | | | | | | |
| Northeast | 12,360 | 11,972 | 11,964 | 7,305 | 5,414 | 1,898 | 326 | 1,706 | 580 |
| Midwest | 16,761 | 16,389 | 16,389 | 13,506 | 2,423 | 1,521 | 746 | 1,405 | 606 |
| South | 23,485 | 23,076 | 23,076 | 14,199 | 3,749 | 1,265 | 939 | 2,389 | 579 |
| West | 14,731 | 14,315 | 14,287 | 10,515 | 1,699 | 1,207 | 739 | 790 | 557 |
| Climate Zone: 45-Year Average | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | |
| More than 7,000 HDD | 5,890 | 5,750 | 5,750 | 4,064 | 1,612 | 250 | Q | 1,166 | Q |
| 5,500-7,000 HDD | 17,083 | 16,706 | 16,706 | 12,573 | 3,773 | 1,743 | 763 | 1,343 | 691 |
| 4,000-5,499 HDD | 16,243 | 15,800 | 15,792 | 10,455 | 4,531 | 2,443 | 653 | 1,619 | 602 |
| Fewer than 4,000 HDD | 16,333 | 15,951 | 15,922 | 12,149 | 1,903 | 875 | 683 | 1,040 | 442 |
| 2,000 CDD or More and -- | | | | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 11,546 | 11,546 | 6,285 | 1,466 | 581 | 589 | 1,122 | 383 |

Table B18. Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|---------------------------------------|---|-------------|----------|---------------|------------------------|---------|--------------------|
| | All Buildings | All Buildings Using Any Energy Source | Energy Sources Used (more than one may apply) | | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | District Chilled Water | Propane | Other ^a |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 14,321 | 12,788 | 12,750 | 7,108 | 964 | 390 | Q | 1,451 | 345 |
| 5 to 9 | 6,325 | 6,274 | 6,274 | 4,633 | 796 | 304 | Q | 646 | Q |
| 10 to 19 | 8,028 | 8,028 | 8,028 | 5,589 | 676 | 475 | Q | 688 | Q |
| 20 to 49 | 10,814 | 10,814 | 10,814 | 7,737 | 1,294 | 544 | 162 | 1,189 | 317 |
| 50 to 99 | 8,898 | 8,898 | 8,898 | 6,278 | 1,593 | 696 | 478 | 839 | 364 |
| 100 to 249 | 8,356 | 8,356 | 8,356 | 6,146 | 2,482 | 1,052 | 484 | 787 | 417 |
| 250 or More | 10,595 | 10,595 | 10,595 | 8,035 | 5,480 | 2,431 | 1,234 | 691 | 527 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 6,596 | 5,351 | 5,314 | 2,825 | 504 | Q | Q | 944 | Q |
| 40 to 48 | 13,105 | 13,070 | 13,070 | 8,197 | 1,540 | 796 | 239 | 1,026 | 285 |
| 49 to 60 | 14,200 | 14,186 | 14,186 | 9,714 | 2,638 | 945 | 589 | 1,068 | 570 |
| 61 to 84 | 12,458 | 12,381 | 12,381 | 9,007 | 2,500 | 943 | 504 | 980 | 440 |
| 85 to 167 | 9,116 | 8,930 | 8,930 | 6,449 | 1,532 | 915 | 505 | 1,085 | 324 |
| Open Continuously | 11,863 | 11,835 | 11,835 | 9,334 | 4,571 | 2,254 | 893 | 1,187 | 582 |
| Ownership and Occupancy | | | | | | | | | |
| Nongovernment Owned | 54,994 | 53,668 | 53,640 | 37,026 | 9,893 | 3,333 | 1,560 | 5,305 | 1,864 |
| Owner Occupied | 37,785 | 37,506 | 37,506 | 25,597 | 8,284 | 2,907 | 1,325 | 4,051 | 1,486 |
| Nonowner Occupied | 15,596 | 15,441 | 15,441 | 10,968 | 1,605 | 426 | Q | 1,244 | 358 |
| Unoccupied | 1,613 | 721 | 693 | 461 | Q | N | N | Q | Q |
| Government Owned | 12,343 | 12,085 | 12,076 | 8,500 | 3,392 | 2,559 | 1,190 | 985 | 458 |
| Vacancy Status | | | | | | | | | |
| Completely Vacant | 953 | 385 | 356 | Q | N | N | N | Q | N |
| Mostly Vacant | 956 | 765 | 756 | 367 | Q | Q | N | Q | Q |
| Partially Vacant | 15,520 | 15,093 | 15,093 | 10,725 | 3,528 | 1,311 | 521 | 1,051 | 378 |
| Not At All Vacant | 49,910 | 49,511 | 49,511 | 34,174 | 9,639 | 4,570 | 2,229 | 5,213 | 1,891 |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 65,716 | 65,716 | 65,716 | 45,496 | 13,277 | 5,891 | 2,750 | 6,290 | 2,322 |
| Natural Gas | 45,525 | 45,525 | 45,496 | 45,525 | 8,088 | 2,683 | 1,316 | 1,887 | 1,572 |
| Fuel Oil | 13,285 | 13,285 | 13,277 | 8,088 | 13,285 | 1,839 | 749 | 2,296 | 554 |
| District Heat | 5,891 | 5,891 | 5,891 | 2,683 | 1,839 | 5,891 | 2,354 | Q | Q |
| District Chilled Water | 2,750 | 2,750 | 2,750 | 1,316 | 749 | 2,354 | 2,750 | Q | Q |
| Propane | 6,290 | 6,290 | 6,290 | 1,887 | 2,296 | Q | Q | 6,290 | 438 |
| Other | 2,322 | 2,322 | 2,322 | 1,572 | 554 | Q | Q | 438 | 2,322 |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 61,602 | 61,602 | 61,565 | 44,385 | 13,074 | 5,862 | 2,739 | 6,076 | 2,276 |
| Buildings with Cooling | 58,474 | 58,474 | 58,474 | 42,147 | 12,185 | 5,165 | 2,750 | 5,415 | 2,069 |
| Buildings with Water Heating | 56,115 | 56,115 | 56,115 | 41,366 | 11,852 | 5,301 | 2,455 | 5,409 | 1,887 |
| Buildings with Cooking | 24,681 | 24,681 | 24,681 | 19,857 | 7,840 | 2,487 | 1,047 | 3,005 | 1,331 |
| Buildings with Manufacturing | 3,126 | 3,126 | 3,126 | 2,322 | 555 | Q | Q | 403 | Q |
| Buildings with Electricity Generation | 11,882 | 11,882 | 11,882 | 9,119 | 8,749 | 2,083 | 919 | 1,486 | 1,132 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | |
| Commercial Food Preparation | 23,328 | 23,328 | 23,328 | 18,916 | 7,576 | 2,416 | 1,027 | 2,712 | 1,331 |
| Activities with Large Amounts of Hot Water | 21,793 | 21,793 | 21,793 | 17,601 | 6,856 | 2,735 | 1,158 | 2,643 | 1,165 |

^a "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B19. Energy End Uses, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | | Total Floorspace (million square feet) | | | | | |
|--|--------------------------------|--|---------|---------------|---------|---------------|--|--|---------|---------------|---------|---------------|
| | All Buildings | Energy Used For (more than one may apply) | | | | | All Buildings | Energy Used For (more than one may apply) | | | | |
| | | Space Heating | Cooling | Water Heating | Cooking | Manufacturing | | Space Heating | Cooling | Water Heating | Cooking | Manufacturing |
| All Buildings | 4,657 | 4,016 | 3,560 | 3,239 | 857 | 151 | 67,338 | 61,602 | 58,474 | 56,115 | 24,681 | 3,126 |
| Building Floorspace (Square Feet) | | | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,982 | 1,680 | 1,456 | 357 | Q | 6,774 | 5,684 | 4,879 | 4,280 | 1,095 | Q |
| 5,001 to 10,000 | 1,110 | 946 | 828 | 778 | 176 | 36 | 8,238 | 7,090 | 6,212 | 5,748 | 1,272 | 318 |
| 10,001 to 25,000 | 708 | 629 | 611 | 574 | 150 | 28 | 11,153 | 9,865 | 9,530 | 9,000 | 2,415 | 519 |
| 25,001 to 50,000 | 257 | 237 | 223 | 222 | 72 | 11 | 9,311 | 8,565 | 8,116 | 8,088 | 2,630 | 390 |
| 50,001 to 100,000 | 145 | 137 | 134 | 127 | 54 | 9 | 10,112 | 9,597 | 9,401 | 8,887 | 3,901 | 600 |
| 100,001 to 200,000 | 59 | 57 | 55 | 54 | 29 | 3 | 8,271 | 7,893 | 7,609 | 7,527 | 4,092 | 478 |
| 200,001 to 500,000 | 23 | 22 | 21 | 21 | 14 | 1 | 6,851 | 6,445 | 6,345 | 6,258 | 4,254 | 283 |
| Over 500,000 | 7 | 7 | 7 | 7 | 5 | Q | 6,628 | 6,465 | 6,382 | 6,327 | 5,020 | Q |
| Principal Building Activity | | | | | | | | | | | | |
| Education | 327 | 326 | 274 | 240 | 106 | Q | 8,651 | 8,612 | 7,973 | 8,059 | 5,670 | Q |
| Food Sales | 174 | 149 | 166 | 163 | 85 | Q | 994 | 880 | 978 | 951 | 676 | Q |
| Food Service | 349 | 321 | 324 | 349 | 316 | Q | 1,851 | 1,721 | 1,760 | 1,846 | 1,761 | Q |
| Health Care | 127 | 127 | 127 | 126 | 11 | Q | 2,918 | 2,918 | 2,815 | 2,903 | 1,812 | Q |
| Inpatient | 11 | 11 | 11 | 11 | 9 | Q | 1,865 | 1,865 | 1,762 | 1,862 | 1,738 | Q |
| Outpatient | 116 | 116 | 116 | 115 | Q | N | 1,053 | 1,053 | 1,053 | 1,040 | Q | N |
| Lodging | 153 | 150 | 126 | 149 | 41 | Q | 4,521 | 4,424 | 4,051 | 4,442 | 2,401 | Q |
| Mercantile | 667 | 626 | 632 | 439 | 96 | Q | 10,398 | 9,848 | 10,174 | 8,698 | 5,218 | Q |
| Retail (Other Than Mall) | 534 | 502 | 499 | 323 | 29 | Q | 4,766 | 4,615 | 4,573 | 3,453 | 811 | Q |
| Enclosed and Strip Malls | 133 | 123 | 132 | 116 | 68 | Q | 5,631 | 5,233 | 5,601 | 5,244 | 4,407 | Q |
| Office | 739 | 728 | 716 | 615 | 19 | Q | 12,044 | 11,810 | 11,782 | 10,872 | 3,149 | 441 |
| Public Assembly | 305 | 274 | 232 | 249 | 101 | Q | 4,393 | 4,015 | 3,859 | 3,893 | 2,027 | Q |
| Public Order and Safety | 72 | 61 | 32 | 41 | 12 | Q | 1,168 | 1,021 | 760 | 830 | 301 | Q |
| Religious Worship | 307 | 306 | 232 | 252 | 51 | N | 3,405 | 3,383 | 2,765 | 3,109 | 842 | N |
| Service | 478 | 421 | 289 | 280 | Q | 25 | 3,388 | 3,027 | 2,481 | 2,351 | Q | 325 |
| Warehouse and Storage | 603 | 357 | 308 | 227 | Q | 51 | 10,477 | 8,104 | 7,621 | 6,743 | Q | 1,634 |
| Other | 102 | 84 | 76 | 64 | Q | Q | 1,222 | 1,086 | 1,087 | 983 | Q | Q |
| Vacant | 253 | 84 | 27 | 44 | Q | Q | 1,908 | 754 | 368 | 436 | Q | Q |
| Year Constructed | | | | | | | | | | | | |
| 1919 or Before | 419 | 350 | 260 | 277 | 69 | Q | 4,034 | 3,593 | 2,911 | 3,130 | 1,091 | Q |
| 1920 to 1945 | 499 | 430 | 313 | 311 | 85 | Q | 6,445 | 5,559 | 4,383 | 4,644 | 2,232 | Q |
| 1946 to 1959 | 763 | 666 | 589 | 493 | 115 | 28 | 9,127 | 8,402 | 7,601 | 7,154 | 3,195 | 535 |
| 1960 to 1969 | 665 | 557 | 496 | 493 | 131 | 19 | 10,866 | 9,966 | 9,325 | 9,421 | 4,178 | 409 |
| 1970 to 1979 | 774 | 691 | 649 | 592 | 161 | 32 | 11,840 | 10,916 | 11,050 | 10,182 | 4,551 | 555 |
| 1980 to 1989 | 846 | 713 | 702 | 623 | 173 | 37 | 13,931 | 12,566 | 12,849 | 12,137 | 5,030 | 744 |
| 1990 to 1999 | 690 | 608 | 549 | 450 | 124 | Q | 11,094 | 10,600 | 10,355 | 9,446 | 4,403 | 485 |
| Census Region | | | | | | | | | | | | |
| Northeast | 686 | 601 | 473 | 515 | 141 | 22 | 12,360 | 11,667 | 10,311 | 10,577 | 5,245 | 568 |
| Midwest | 1,188 | 1,049 | 861 | 776 | 221 | 18 | 16,761 | 15,916 | 14,371 | 13,702 | 6,042 | 818 |
| South | 1,762 | 1,503 | 1,506 | 1,179 | 315 | 87 | 23,485 | 20,598 | 21,549 | 19,014 | 8,569 | 1,035 |
| West | 1,021 | 863 | 720 | 769 | 181 | 24 | 14,731 | 13,421 | 12,243 | 12,822 | 4,825 | 706 |
| Climate Zone: 45-Year Average | | | | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | | | | |
| More than 7,000 HDD | 525 | 475 | 366 | 396 | 97 | Q | 5,890 | 5,669 | 4,804 | 5,090 | 2,213 | 319 |
| 5,500-7,000 HDD | 986 | 870 | 711 | 674 | 189 | 9 | 17,083 | 16,206 | 14,289 | 14,123 | 6,319 | 571 |
| 4,000-5,499 HDD | 1,085 | 950 | 766 | 751 | 200 | 43 | 16,243 | 15,292 | 13,999 | 13,800 | 6,558 | 869 |
| Fewer than 4,000 HDD | 1,134 | 997 | 913 | 836 | 211 | 34 | 16,333 | 14,923 | 14,535 | 14,128 | 5,519 | 827 |
| 2,000 CDD or More and -- | | | | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 724 | 803 | 582 | 160 | 53 | 11,788 | 9,512 | 10,847 | 8,973 | 4,072 | 540 |

Table B19. Energy End Uses, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | | Total Floorspace (million square feet) | | | | | |
|---|--------------------------------|--|---------|---------------|---------|---------------|--|--|---------|---------------|---------|---------------|
| | All Buildings | Energy Used For (more than one may apply) | | | | | All Buildings | Energy Used For (more than one may apply) | | | | |
| | | Space Heating | Cooling | Water Heating | Cooking | Manufacturing | | Space Heating | Cooling | Water Heating | Cooking | Manufacturing |
| Workers (main shift) | | | | | | | | | | | | |
| Fewer than 5 | 2,376 | 1,835 | 1,513 | 1,312 | 287 | Q | 14,321 | 10,552 | 8,704 | 8,401 | 1,651 | Q |
| 5 to 9 | 807 | 773 | 681 | 643 | 131 | 24 | 6,325 | 6,020 | 5,291 | 5,145 | 1,341 | 230 |
| 10 to 19 | 683 | 667 | 636 | 586 | 172 | 31 | 8,028 | 7,762 | 7,409 | 7,000 | 2,021 | 477 |
| 20 to 49 | 487 | 456 | 433 | 417 | 154 | 29 | 10,814 | 10,347 | 9,930 | 9,445 | 3,871 | 645 |
| 50 to 99 | 174 | 166 | 169 | 159 | 65 | 12 | 8,898 | 8,536 | 8,519 | 8,166 | 4,354 | 544 |
| 100 to 249 | 90 | 81 | 88 | 85 | 30 | 3 | 8,356 | 8,053 | 8,129 | 7,760 | 4,305 | 436 |
| 250 or More | 39 | 38 | 39 | 36 | 18 | 2 | 10,595 | 10,333 | 10,491 | 10,199 | 7,138 | 544 |
| Weekly Operating Hours | | | | | | | | | | | | |
| 39 or Fewer | 978 | 638 | 439 | 427 | 93 | Q | 6,596 | 4,217 | 3,113 | 3,340 | 884 | Q |
| 40 to 48 | 1,156 | 1,068 | 968 | 779 | 97 | 47 | 13,105 | 12,090 | 11,041 | 10,049 | 2,492 | 753 |
| 49 to 60 | 986 | 943 | 850 | 746 | 131 | 43 | 14,200 | 13,677 | 13,225 | 12,280 | 4,159 | 717 |
| 61 to 84 | 664 | 598 | 563 | 521 | 188 | 24 | 12,458 | 11,787 | 11,701 | 11,334 | 6,052 | 607 |
| 85 to 167 | 474 | 407 | 436 | 436 | 264 | 5 | 9,116 | 8,399 | 8,528 | 8,041 | 4,659 | 423 |
| Open Continuously | 398 | 361 | 304 | 330 | 85 | Q | 11,863 | 11,432 | 10,866 | 11,070 | 6,435 | 474 |
| Energy Sources (more than one may apply) | | | | | | | | | | | | |
| Electricity | 4,395 | 4,008 | 3,560 | 3,239 | 857 | 151 | 65,716 | 61,565 | 58,474 | 56,115 | 24,681 | 3,126 |
| Natural Gas | 2,670 | 2,588 | 2,335 | 2,191 | 615 | 77 | 45,525 | 44,385 | 42,147 | 41,366 | 19,857 | 2,322 |
| Fuel Oil | 434 | 432 | 302 | 288 | 92 | 35 | 13,285 | 13,074 | 12,185 | 11,852 | 7,840 | 555 |
| District Heat | 117 | 116 | 97 | 101 | 28 | Q | 5,891 | 5,862 | 5,165 | 5,301 | 2,487 | Q |
| District Chilled Water | 50 | 49 | 50 | 37 | 6 | Q | 2,750 | 2,739 | 2,750 | 2,455 | 1,047 | Q |
| Propane | 451 | 434 | 318 | 334 | 158 | Q | 6,290 | 6,076 | 5,415 | 5,409 | 3,005 | 403 |
| Other | 153 | 149 | 107 | 89 | 47 | Q | 2,322 | 2,276 | 2,069 | 1,887 | 1,331 | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 4,016 | 3,400 | 3,087 | 798 | 143 | 61,602 | 61,602 | 56,361 | 54,204 | 23,813 | 3,031 |
| Buildings with Cooling | 3,560 | 3,400 | 3,560 | 2,915 | 792 | 129 | 58,474 | 56,361 | 58,474 | 52,589 | 23,730 | 2,861 |
| Buildings with Water Heating | 3,239 | 3,087 | 2,915 | 3,239 | 818 | 89 | 56,115 | 54,204 | 52,589 | 56,115 | 23,830 | 2,364 |
| Buildings with Cooking | 857 | 798 | 792 | 818 | 857 | Q | 24,681 | 23,813 | 23,730 | 23,830 | 24,681 | 495 |
| Buildings with Manufacturing | 151 | 143 | 129 | 89 | Q | 151 | 3,126 | 3,031 | 2,861 | 2,364 | 495 | 3,126 |
| Buildings with Electricity Generation | 172 | 169 | 149 | 143 | 63 | Q | 11,882 | 11,643 | 11,538 | 11,079 | 7,823 | 330 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | | | | |
| Commercial Food Preparation | 767 | 711 | 716 | 733 | 767 | Q | 23,328 | 22,488 | 22,457 | 22,563 | 23,328 | 478 |
| Activities with Large Amounts of Hot Water | 698 | 674 | 635 | 698 | 422 | Q | 21,793 | 21,325 | 20,687 | 21,793 | 16,513 | 584 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B20. Space-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|--------------------------------------|--------------------------------|----------------------------------|--|-------------|----------|---------------|---------|--------------------|
| | All Buildings | All Buildings with Space Heating | Space-Heating Energy Sources Used (more than one may apply) | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane | Other ^a |
| All Buildings | 4,657 | 4,016 | 1,880 | 2,380 | 377 | 96 | 307 | 94 |
| Building Floorspace | | | | | | | | |
| (Square Feet) | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,982 | 926 | 1,082 | 214 | Q | 162 | Q |
| 5,001 to 10,000 | 1,110 | 946 | 379 | 624 | 73 | Q | 88 | Q |
| 10,001 to 25,000 | 708 | 629 | 324 | 389 | 52 | 19 | 42 | Q |
| 25,001 to 50,000 | 257 | 237 | 129 | 143 | 20 | 17 | 7 | Q |
| 50,001 to 100,000 | 145 | 137 | 74 | 89 | 9 | 13 | 5 | Q |
| 100,001 to 200,000 | 59 | 57 | 34 | 35 | 6 | 7 | Q | Q |
| 200,001 to 500,000 | 23 | 22 | 11 | 13 | 3 | 3 | Q | Q |
| Over 500,000 | 7 | 7 | 4 | 4 | 1 | 2 | Q | Q |
| Principal Building Activity | | | | | | | | |
| Education | 327 | 326 | 166 | 196 | 17 | 30 | 10 | Q |
| Food Sales | 174 | 149 | 63 | 79 | Q | Q | Q | Q |
| Food Service | 349 | 321 | 143 | 192 | Q | Q | Q | Q |
| Health Care | 127 | 127 | 78 | 63 | Q | 3 | Q | N |
| Inpatient | 11 | 11 | 3 | 5 | Q | 3 | Q | N |
| Outpatient | 116 | 116 | 75 | 58 | Q | Q | Q | N |
| Lodging | 153 | 150 | 101 | 74 | Q | 13 | Q | Q |
| Mercantile | 667 | 626 | 273 | 392 | 86 | Q | 31 | Q |
| Retail (Other Than Mall) | 534 | 502 | 204 | 318 | 76 | Q | Q | Q |
| Enclosed and Strip Malls | 133 | 123 | 68 | 75 | Q | N | Q | N |
| Office | 739 | 728 | 430 | 419 | 65 | 19 | Q | Q |
| Public Assembly | 305 | 274 | 121 | 153 | Q | 15 | Q | Q |
| Public Order and Safety | 72 | 61 | 21 | 30 | Q | 3 | Q | Q |
| Religious Worship | 307 | 306 | 125 | 206 | 22 | Q | 62 | Q |
| Service | 478 | 421 | 135 | 260 | 71 | Q | Q | Q |
| Warehouse and Storage | 603 | 357 | 171 | 211 | 15 | Q | 39 | Q |
| Other | 102 | 84 | Q | 39 | Q | Q | Q | Q |
| Vacant | 253 | 84 | 18 | 67 | Q | Q | Q | Q |
| Year Constructed | | | | | | | | |
| 1919 or Before | 419 | 350 | 105 | 254 | 52 | 19 | Q | Q |
| 1920 to 1945 | 499 | 430 | 145 | 317 | 53 | 9 | Q | Q |
| 1946 to 1959 | 763 | 666 | 307 | 376 | 98 | 21 | 39 | Q |
| 1960 to 1969 | 665 | 557 | 224 | 361 | 56 | 16 | 48 | Q |
| 1970 to 1979 | 774 | 691 | 376 | 423 | 28 | Q | 39 | Q |
| 1980 to 1989 | 846 | 713 | 411 | 337 | 54 | 11 | 66 | Q |
| 1990 to 1999 | 690 | 608 | 312 | 311 | 36 | 4 | 78 | Q |
| Census Region | | | | | | | | |
| Northeast | 686 | 601 | 186 | 273 | 210 | 31 | 63 | Q |
| Midwest | 1,188 | 1,049 | 331 | 834 | 33 | 22 | 93 | 26 |
| South | 1,762 | 1,503 | 945 | 677 | 114 | 27 | 120 | 45 |
| West | 1,021 | 863 | 418 | 595 | Q | 17 | 31 | Q |
| Climate Zone: 45-Year Average | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | |
| More than 7,000 HDD | 525 | 475 | 133 | 324 | 69 | 3 | 74 | Q |
| 5,500-7,000 HDD | 986 | 870 | 312 | 619 | 111 | 22 | 66 | Q |
| 4,000-5,499 HDD | 1,085 | 950 | 435 | 468 | 170 | 42 | 79 | 33 |
| Fewer than 4,000 HDD | 1,134 | 997 | 509 | 647 | Q | 8 | Q | Q |
| 2,000 CDD or More and -- | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 724 | 492 | 322 | Q | 21 | Q | Q |

Table B20. Space-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|---|--------------------------------|----------------------------------|--|-------------|----------|---------------|---------|--------------------|
| | All Buildings | All Buildings with Space Heating | Space-Heating Energy Sources Used (more than one may apply) | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane | Other ^a |
| Workers (main shift) | | | | | | | | |
| Fewer than 5 | 2,376 | 1,835 | 773 | 1,047 | 174 | 30 | 183 | 55 |
| 5 to 9 | 807 | 773 | 363 | 502 | 91 | 14 | 37 | Q |
| 10 to 19 | 683 | 667 | 343 | 390 | 51 | 10 | 54 | Q |
| 20 to 49 | 487 | 456 | 233 | 262 | 39 | 12 | 28 | Q |
| 50 to 99 | 174 | 166 | 103 | 103 | 10 | 15 | Q | Q |
| 100 to 249 | 90 | 81 | 43 | 54 | 8 | 8 | Q | Q |
| 250 or More | 39 | 38 | 22 | 22 | 2 | 7 | Q | Q |
| Weekly Operating Hours | | | | | | | | |
| 39 or Fewer | 978 | 638 | 259 | 355 | 64 | Q | 113 | Q |
| 40 to 48 | 1,156 | 1,068 | 516 | 616 | 90 | 35 | 72 | Q |
| 49 to 60 | 986 | 943 | 457 | 599 | 103 | 17 | 28 | 27 |
| 61 to 84 | 664 | 598 | 250 | 383 | 56 | 16 | 40 | Q |
| 85 to 167 | 474 | 407 | 208 | 232 | 25 | 7 | 35 | Q |
| Open Continuously | 398 | 362 | 189 | 195 | 38 | 20 | 18 | Q |
| Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 4,395 | 4,008 | 1,880 | 2,373 | 376 | 96 | 307 | 94 |
| Natural Gas | 2,670 | 2,588 | 954 | 2,380 | 60 | 41 | Q | 19 |
| Fuel Oil | 434 | 432 | 163 | 62 | 377 | 7 | Q | Q |
| District Heat | 117 | 116 | 46 | 20 | Q | 96 | Q | Q |
| District Chilled Water | 50 | 49 | 23 | 4 | Q | 39 | Q | Q |
| Propane | 451 | 434 | 145 | 28 | 76 | Q | 307 | Q |
| Other | 153 | 149 | 57 | 52 | Q | Q | Q | 94 |
| Primary Space-Heating Energy Source | | | | | | | | |
| Electricity | 1,128 | 1,128 | 1,128 | 174 | 37 | Q | 7 | Q |
| Natural Gas | 2,189 | 2,189 | 607 | 2,189 | 33 | 2 | Q | Q |
| Fuel Oil | 302 | 302 | 76 | 2 | 302 | Q | Q | Q |
| District Heat | 77 | 77 | 9 | Q | Q | 77 | Q | Q |
| Propane | 282 | 282 | 58 | Q | Q | N | 282 | Q |
| Other | 38 | 38 | Q | Q | Q | N | Q | 38 |
| Cooling Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 3,450 | 3,297 | 1,674 | 1,992 | 246 | 54 | 211 | 60 |
| Natural Gas | 142 | 137 | 68 | 135 | Q | Q | Q | N |
| District Chilled Water | 50 | 49 | 23 | 4 | Q | 39 | Q | Q |
| Water-Heating Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 1,546 | 1,465 | 927 | 667 | 90 | 23 | 106 | 43 |
| Natural Gas | 1,520 | 1,459 | 531 | 1,311 | 44 | 21 | Q | Q |
| Fuel Oil | 110 | 109 | 34 | 6 | 107 | Q | Q | Q |
| District Heat | 62 | 61 | 21 | 3 | Q | 46 | Q | Q |
| Propane | 130 | 116 | 29 | Q | Q | N | 81 | Q |
| Cooking Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 437 | 398 | 216 | 205 | 36 | 11 | 43 | Q |
| Natural Gas | 505 | 475 | 208 | 390 | 24 | Q | Q | Q |
| Propane | 118 | 111 | 40 | Q | 24 | Q | 52 | Q |

Table B20. Space-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | |
|--|--------------------------------|----------------------------------|--|-------------|----------|---------------|---------|--------------------|
| | All Buildings | All Buildings with Space Heating | Space-Heating Energy Sources Used (more than one may apply) | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane | Other ^a |
| Energy End Uses (more than one may apply) | | | | | | | | |
| Buildings with Space Heating | 4,016 | 4,016 | 1,880 | 2,380 | 377 | 96 | 307 | 94 |
| Buildings with Cooling | 3,560 | 3,400 | 1,701 | 2,070 | 246 | 77 | 212 | 61 |
| Buildings with Water Heating | 3,239 | 3,087 | 1,465 | 1,914 | 246 | 80 | 195 | 50 |
| Buildings with Cooking | 857 | 798 | 362 | 480 | 74 | 21 | 75 | 25 |
| Buildings with Manufacturing | 151 | 143 | 76 | 67 | Q | Q | Q | Q |
| Buildings with Electricity Generation | 172 | 169 | 89 | 97 | 23 | 9 | 4 | Q |
| Percent of Floorspace Heated | | | | | | | | |
| Not Heated | 641 | Q | N | Q | N | N | N | N |
| 1 to 50 | 576 | 576 | 290 | 301 | 58 | Q | 61 | Q |
| 51 to 99 | 627 | 627 | 255 | 394 | 52 | 16 | 30 | Q |
| 100 | 2,813 | 2,813 | 1,335 | 1,685 | 266 | 80 | 216 | 42 |
| Heating Equipment (more than one may apply) | | | | | | | | |
| Heat Pumps | 492 | 492 | 475 | 144 | Q | 4 | 12 | Q |
| Furnaces | 1,460 | 1,460 | 512 | 1,077 | 166 | Q | 128 | Q |
| Individual Space Heaters | 894 | 894 | 584 | 543 | 100 | 7 | 104 | 27 |
| District Heat | 96 | 96 | 26 | Q | Q | 96 | Q | Q |
| Boilers | 581 | 581 | 193 | 381 | 152 | Q | 41 | 12 |
| Packaged Heating Units | 1,347 | 1,347 | 744 | 865 | 17 | Q | 81 | Q |
| Other | 185 | 185 | 110 | 67 | 34 | 1 | 19 | 52 |

^a "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B21. Space-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|--|--|----------------------------------|--|-------------|----------|---------------|---------|--------------------|
| | All Buildings | All Buildings with Space Heating | Space-Heating Energy Sources Used (more than one may apply) | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane | Other ^a |
| All Buildings | 67,338 | 61,612 | 32,291 | 37,902 | 5,611 | 5,534 | 2,728 | 945 |
| Building Floorspace (Square Feet) | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 5,684 | 2,651 | 3,250 | 598 | Q | 469 | Q |
| 5,001 to 10,000 | 8,238 | 7,090 | 2,808 | 4,613 | 573 | Q | 688 | Q |
| 10,001 to 25,000 | 11,153 | 9,865 | 5,079 | 6,069 | 773 | 307 | 682 | Q |
| 25,001 to 50,000 | 9,311 | 8,574 | 4,752 | 5,225 | 687 | 617 | 247 | Q |
| 50,001 to 100,000 | 10,112 | 9,597 | 5,238 | 6,200 | 635 | 905 | 366 | Q |
| 100,001 to 200,000 | 8,271 | 7,893 | 4,719 | 4,917 | 791 | 883 | Q | Q |
| 200,001 to 500,000 | 6,851 | 6,445 | 3,234 | 3,949 | 847 | 963 | Q | Q |
| Over 500,000 | 6,628 | 6,465 | 3,810 | 3,680 | 707 | 1,698 | Q | Q |
| Principal Building Activity | | | | | | | | |
| Education | 8,651 | 8,612 | 3,613 | 5,317 | 1,375 | 1,086 | 200 | Q |
| Food Sales | 994 | 880 | 359 | 556 | Q | Q | Q | Q |
| Food Service | 1,851 | 1,721 | 836 | 1,210 | Q | Q | Q | Q |
| Health Care | 2,918 | 2,918 | 1,335 | 1,793 | 641 | 736 | Q | N |
| Inpatient | 1,865 | 1,865 | 693 | 1,257 | 615 | 641 | Q | N |
| Outpatient | 1,053 | 1,053 | 642 | 536 | Q | Q | Q | N |
| Lodging | 4,521 | 4,424 | 2,984 | 2,503 | Q | 527 | Q | Q |
| Mercantile | 10,398 | 9,848 | 6,148 | 6,423 | 649 | Q | 332 | Q |
| Retail (Other Than Mall) | 4,766 | 4,615 | 2,239 | 3,150 | 470 | Q | Q | Q |
| Enclosed and Strip Malls | 5,631 | 5,233 | 3,909 | 3,274 | Q | N | Q | N |
| Office | 12,044 | 11,819 | 7,221 | 6,060 | 812 | 1,487 | Q | Q |
| Public Assembly | 4,393 | 4,015 | 1,848 | 2,370 | Q | 841 | Q | Q |
| Public Order and Safety | 1,168 | 1,021 | 354 | 512 | Q | 297 | Q | Q |
| Religious Worship | 3,405 | 3,383 | 1,534 | 2,270 | 182 | Q | 706 | Q |
| Service | 3,388 | 3,027 | 1,145 | 1,981 | 405 | Q | Q | Q |
| Warehouse and Storage | 10,477 | 8,104 | 4,285 | 5,719 | 576 | Q | 483 | Q |
| Other | 1,222 | 1,086 | 401 | 612 | Q | Q | Q | Q |
| Vacant | 1,908 | 754 | 228 | 575 | Q | Q | Q | Q |
| Year Constructed | | | | | | | | |
| 1919 or Before | 4,034 | 3,593 | 1,267 | 2,399 | 593 | 480 | Q | Q |
| 1920 to 1945 | 6,445 | 5,559 | 2,223 | 3,808 | 651 | 764 | Q | Q |
| 1946 to 1959 | 9,127 | 8,402 | 3,822 | 5,091 | 1,065 | 1,065 | 319 | Q |
| 1960 to 1969 | 10,866 | 9,966 | 4,789 | 6,163 | 1,083 | 1,351 | 473 | Q |
| 1970 to 1979 | 11,840 | 10,916 | 6,116 | 6,558 | 1,015 | 769 | 415 | Q |
| 1980 to 1989 | 13,931 | 12,566 | 8,140 | 7,226 | 772 | 606 | 526 | Q |
| 1990 to 1999 | 11,094 | 10,610 | 5,933 | 6,658 | 432 | 499 | 608 | Q |
| Census Region | | | | | | | | |
| Northeast | 12,360 | 11,667 | 4,625 | 5,703 | 3,612 | 1,876 | 761 | Q |
| Midwest | 16,761 | 15,916 | 6,429 | 12,467 | 619 | 1,514 | 733 | 281 |
| South | 23,485 | 20,608 | 13,862 | 10,904 | 1,128 | 1,022 | 1,013 | 260 |
| West | 14,731 | 13,421 | 7,375 | 8,828 | 252 | 1,121 | 221 | Q |
| Climate Zone: 45-Year Average | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | |
| More than 7,000 HDD | 5,890 | 5,669 | 1,920 | 3,949 | 1,065 | 250 | 616 | Q |
| 5,500-7,000 HDD | 17,083 | 16,206 | 6,767 | 11,335 | 1,833 | 1,736 | 613 | Q |
| 4,000-5,499 HDD | 16,243 | 15,292 | 8,030 | 8,234 | 2,267 | 2,405 | 766 | 305 |
| Fewer than 4,000 HDD | 16,333 | 14,923 | 8,670 | 10,109 | 281 | 677 | Q | Q |
| 2,000 CDD or More and -- | | | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 9,521 | 6,904 | 4,275 | Q | 466 | Q | Q |

Table B21. Space-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|---|--|----------------------------------|--|-------------|----------|---------------|---------|--------------------|
| | All Buildings | All Buildings with Space Heating | Space-Heating Energy Sources Used (more than one may apply) | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane | Other ^a |
| Workers (main shift) | | | | | | | | |
| Fewer than 5 | 14,321 | 10,552 | 4,405 | 6,432 | 912 | 289 | 1,136 | 190 |
| 5 to 9 | 6,325 | 6,020 | 2,941 | 3,910 | 634 | 292 | 372 | Q |
| 10 to 19 | 8,028 | 7,772 | 3,981 | 4,784 | 518 | 372 | 378 | Q |
| 20 to 49 | 10,814 | 10,347 | 5,599 | 6,585 | 691 | 534 | 456 | Q |
| 50 to 99 | 8,898 | 8,536 | 4,817 | 5,229 | 925 | 645 | Q | Q |
| 100 to 249 | 8,356 | 8,053 | 4,500 | 5,126 | 900 | 1,031 | Q | Q |
| 250 or More | 10,595 | 10,333 | 6,048 | 5,836 | 1,031 | 2,371 | Q | Q |
| Weekly Operating Hours | | | | | | | | |
| 39 or Fewer | 6,596 | 4,217 | 1,636 | 2,441 | 486 | Q | 809 | Q |
| 40 to 48 | 13,105 | 12,090 | 6,215 | 7,330 | 952 | 730 | 576 | Q |
| 49 to 60 | 14,200 | 13,677 | 7,065 | 8,499 | 1,403 | 910 | 416 | 388 |
| 61 to 84 | 12,458 | 11,787 | 6,632 | 7,120 | 896 | 911 | 368 | Q |
| 85 to 167 | 9,116 | 8,399 | 4,540 | 5,438 | 703 | 830 | 288 | Q |
| Open Continuously | 11,863 | 11,442 | 6,204 | 7,074 | 1,170 | 2,114 | 272 | Q |
| Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 65,716 | 61,575 | 32,291 | 37,874 | 5,602 | 5,534 | 2,728 | 945 |
| Natural Gas | 45,525 | 44,394 | 21,230 | 37,902 | 2,447 | 2,431 | 250 | 524 |
| Fuel Oil | 13,285 | 13,083 | 6,470 | 5,793 | 5,611 | 1,787 | 398 | Q |
| District Heat | 5,891 | 5,862 | 1,903 | 844 | Q | 5,534 | Q | Q |
| District Chilled Water | 2,750 | 2,739 | 1,012 | 517 | Q | 2,279 | Q | Q |
| Propane | 6,290 | 6,076 | 2,809 | 1,645 | 1,510 | Q | 2,728 | Q |
| Other | 2,322 | 2,276 | 1,015 | 1,368 | Q | Q | Q | 945 |
| Primary Space-Heating Energy Source | | | | | | | | |
| Electricity | 17,627 | 17,627 | 17,627 | 4,465 | 333 | Q | 288 | Q |
| Natural Gas | 32,729 | 32,729 | 11,902 | 32,729 | 1,422 | 211 | Q | Q |
| Fuel Oil | 3,719 | 3,719 | 799 | 149 | 3,719 | Q | Q | Q |
| District Heat | 5,077 | 5,077 | 1,277 | 378 | Q | 5,077 | Q | Q |
| Propane | 2,107 | 2,107 | 593 | Q | Q | N | 2,107 | Q |
| Other | 343 | 343 | Q | Q | Q | N | Q | 343 |
| Cooling Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 55,545 | 53,468 | 30,329 | 33,933 | 4,590 | 3,173 | 2,169 | 768 |
| Natural Gas | 1,914 | 1,898 | 935 | 1,852 | Q | Q | Q | N |
| District Chilled Water | 2,750 | 2,739 | 1,012 | 517 | Q | 2,279 | Q | Q |
| Water-Heating Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 24,171 | 23,070 | 16,403 | 11,446 | 1,636 | 906 | 1,129 | 496 |
| Natural Gas | 29,196 | 28,489 | 13,417 | 25,292 | 1,758 | 629 | Q | Q |
| Fuel Oil | 2,218 | 2,206 | 627 | 573 | 2,045 | Q | Q | Q |
| District Heat | 4,182 | 4,162 | 1,132 | 525 | Q | 3,968 | Q | Q |
| Propane | 1,371 | 1,227 | 493 | Q | Q | N | 770 | Q |
| Cooking Energy Sources (more than one may apply) | | | | | | | | |
| Electricity | 13,733 | 13,193 | 8,107 | 7,676 | 1,530 | 1,327 | 455 | Q |
| Natural Gas | 16,785 | 16,256 | 8,646 | 12,403 | 1,621 | 1,522 | Q | Q |
| Propane | 1,754 | 1,683 | 991 | Q | 540 | Q | 461 | Q |

Table B21. Space-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | |
|--|--|----------------------------------|---|-------------|----------|---------------|---------|--------------------|
| | All Buildings | All Buildings with Space Heating | Space-Heating Energy Sources Used (more than one may apply) | | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane | Other ^a |
| Energy End Uses (more than one may apply) | | | | | | | | |
| Buildings with Space Heating | 61,602 | 61,602 | 32,291 | 37,893 | 5,611 | 5,534 | 2,728 | 945 |
| Buildings with Cooling | 58,474 | 56,370 | 30,961 | 35,080 | 4,638 | 4,844 | 2,191 | 779 |
| Buildings with Water Heating | 56,115 | 54,213 | 28,867 | 34,164 | 4,759 | 4,943 | 2,018 | 682 |
| Buildings with Cooking | 24,681 | 23,823 | 13,404 | 14,929 | 2,814 | 2,337 | 801 | 477 |
| Buildings with Manufacturing | 3,126 | 3,031 | 1,668 | 1,940 | Q | Q | Q | Q |
| Buildings with Electricity Generation | 11,882 | 11,652 | 6,951 | 6,847 | 1,510 | 1,986 | 253 | Q |
| Percent of Floorspace Heated | | | | | | | | |
| Not Heated | 5,736 | Q | N | Q | N | N | N | N |
| 1 to 50 | 7,593 | 7,593 | 4,722 | 4,319 | 564 | Q | 461 | Q |
| 51 to 99 | 10,745 | 10,745 | 6,110 | 6,642 | 786 | 886 | 421 | Q |
| 100 | 43,264 | 43,264 | 21,459 | 26,932 | 4,260 | 4,575 | 1,845 | 593 |
| Heating Equipment (more than one may apply) | | | | | | | | |
| Heat Pumps | 8,923 | 8,923 | 8,667 | 4,466 | 532 | 730 | 204 | Q |
| Furnaces | 14,449 | 14,449 | 6,822 | 11,524 | 1,295 | Q | 1,075 | Q |
| Individual Space Heaters | 17,349 | 17,349 | 12,350 | 11,488 | 1,444 | 1,210 | 1,051 | 534 |
| District Heat | 5,534 | 5,534 | 1,609 | 678 | Q | 5,534 | Q | Q |
| Boilers | 19,522 | 19,522 | 8,410 | 15,131 | 4,176 | Q | 672 | 420 |
| Packaged Heating Units | 25,743 | 25,743 | 16,861 | 17,324 | 1,040 | 767 | 937 | Q |
| Other | 4,073 | 4,073 | 2,972 | 1,982 | 341 | 249 | 272 | 315 |

^a "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B22. Primary Space-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | |
|--|--------------------------------|----------------------------------|---|-------------|----------|---------------|
| | All Buildings | All Buildings with Space Heating | Primary Space-Heating Energy Source Used ^f | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat |
| All Buildings | 4,657 | 4,016 | 1,128 | 2,189 | 302 | 77 |
| Building Floorspace (Square Feet) | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,982 | 591 | 1,028 | 167 | Q |
| 5,001 to 10,000 | 1,110 | 946 | 200 | 582 | 70 | Q |
| 10,001 to 25,000 | 708 | 629 | 195 | 336 | 40 | 13 |
| 25,001 to 50,000 | 257 | 237 | 79 | 122 | 14 | 16 |
| 50,001 to 100,000 | 145 | 137 | 39 | 76 | 7 | 12 |
| 100,001 to 200,000 | 59 | 57 | 18 | 30 | 3 | 6 |
| 200,001 to 500,000 | 23 | 22 | 5 | 12 | 2 | 3 |
| Over 500,000 | 7 | 7 | 2 | 3 | Q | 2 |
| Principal Building Activity | | | | | | |
| Education | 327 | 326 | 111 | 172 | 14 | 20 |
| Food Sales | 174 | 149 | 53 | 77 | Q | Q |
| Food Service | 349 | 321 | 87 | 176 | Q | Q |
| Health Care | 127 | 127 | 55 | 62 | Q | 3 |
| Inpatient | 11 | 11 | Q | 5 | Q | 2 |
| Outpatient | 116 | 116 | 55 | 57 | Q | Q |
| Lodging | 153 | 150 | 80 | 55 | Q | 13 |
| Mercantile | 667 | 626 | 187 | 360 | 50 | Q |
| Retail (Other Than Mall) | 534 | 502 | 126 | 305 | 43 | Q |
| Enclosed and Strip Malls | 133 | 123 | 61 | 54 | Q | N |
| Office | 739 | 728 | 252 | 376 | 64 | 18 |
| Public Assembly | 305 | 274 | 58 | 144 | Q | 15 |
| Public Order and Safety | 72 | 61 | Q | 28 | Q | 3 |
| Religious Worship | 307 | 306 | 29 | 200 | Q | Q |
| Service | 478 | 421 | 83 | 235 | Q | Q |
| Warehouse and Storage | 603 | 357 | 100 | 201 | Q | Q |
| Other | 102 | 84 | Q | 38 | Q | Q |
| Vacant | 253 | 84 | Q | 66 | Q | Q |
| Year Constructed | | | | | | |
| 1919 or Before | 419 | 350 | 21 | 250 | 50 | 19 |
| 1920 to 1945 | 499 | 430 | 60 | 299 | 41 | 9 |
| 1946 to 1959 | 763 | 666 | 181 | 346 | 86 | 14 |
| 1960 to 1969 | 665 | 557 | 105 | 345 | 45 | 15 |
| 1970 to 1979 | 774 | 691 | 233 | 383 | 20 | 6 |
| 1980 to 1989 | 846 | 713 | 311 | 282 | 35 | 10 |
| 1990 to 1999 | 690 | 608 | 218 | 284 | Q | 4 |
| Census Region | | | | | | |
| Northeast | 686 | 601 | 76 | 254 | 190 | 24 |
| Midwest | 1,188 | 1,049 | 128 | 792 | Q | 21 |
| South | 1,762 | 1,503 | 672 | 598 | 92 | 16 |
| West | 1,021 | 863 | 253 | 545 | Q | 16 |
| Climate Zone: 45-Year Average | | | | | | |
| Under 2,000 CDD and -- | | | | | | |
| More than 7,000 HDD | 525 | 475 | 31 | 311 | 59 | 2 |
| 5,500-7,000 HDD | 986 | 870 | 114 | 583 | 83 | 22 |
| 4,000-5,499 HDD | 1,085 | 950 | 245 | 446 | 136 | 35 |
| Fewer than 4,000 HDD | 1,134 | 997 | 365 | 566 | Q | 7 |
| 2,000 CDD or More and -- | | | | | | |
| Fewer than 4,000 HDD | 926 | 724 | 373 | 283 | Q | 11 |

Table B22. Primary Space-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | |
|--|--------------------------------|----------------------------------|---|-------------|----------|---------------|
| | All Buildings | All Buildings with Space Heating | Primary Space-Heating Energy Source Used ^f | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat |
| Workers (main shift) | | | | | | |
| Fewer than 5 | 2,376 | 1,835 | 480 | 1,004 | 134 | 21 |
| 5 to 9 | 807 | 773 | 174 | 469 | 77 | 13 |
| 10 to 19 | 683 | 667 | 221 | 339 | 41 | 10 |
| 20 to 49 | 487 | 456 | 148 | 234 | 37 | 11 |
| 50 to 99 | 174 | 166 | 72 | 77 | 7 | 8 |
| 100 to 249 | 90 | 81 | 21 | 47 | 5 | 7 |
| 250 or More | 39 | 38 | 12 | 19 | 1 | 6 |
| Weekly Operating Hours | | | | | | |
| 39 or Fewer | 978 | 638 | 119 | 343 | 51 | Q |
| 40 to 48 | 1,156 | 1,068 | 315 | 576 | 74 | 24 |
| 49 to 60 | 986 | 943 | 263 | 544 | 92 | 16 |
| 61 to 84 | 664 | 598 | 162 | 351 | 39 | 9 |
| 85 to 167 | 474 | 407 | 136 | 207 | 19 | 7 |
| Open Continuously | 398 | 361 | 132 | 167 | 28 | 20 |
| Energy Sources (more than one may apply) | | | | | | |
| Electricity | 4,395 | 4,008 | 1,128 | 2,182 | 302 | 77 |
| Natural Gas | 2,670 | 2,588 | 331 | 2,189 | 25 | 33 |
| Fuel Oil | 434 | 432 | 64 | 54 | 302 | 6 |
| District Heat | 117 | 116 | 35 | 4 | Q | 77 |
| District Chilled Water | 50 | 49 | Q | 3 | Q | 28 |
| Propane | 451 | 434 | 57 | 24 | 62 | Q |
| Other | 153 | 149 | 38 | 41 | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | |
| Buildings with Space Heating | 4,016 | 4,016 | 1,128 | 2,189 | 302 | 77 |
| Buildings with Cooling | 3,560 | 3,400 | 1,058 | 1,883 | 192 | 58 |
| Buildings with Water Heating | 3,239 | 3,087 | 867 | 1,759 | 205 | 70 |
| Buildings with Cooking | 857 | 798 | 210 | 438 | 58 | 13 |
| Buildings with Manufacturing | 151 | 143 | 51 | 58 | Q | Q |
| Buildings with Electricity Generation | 172 | 169 | 51 | 87 | 20 | 9 |
| Percent of Floorspace Heated | | | | | | |
| Not Heated | 641 | N | N | N | N | N |
| 1 to 50 | 576 | 576 | 189 | 277 | 44 | Q |
| 51 to 99 | 627 | 627 | 165 | 365 | 45 | 15 |
| 100 | 2,813 | 2,813 | 774 | 1,547 | 213 | 61 |
| Heating Equipment (more than one may apply) | | | | | | |
| Heat Pumps | 492 | 492 | 373 | 97 | Q | 3 |
| Furnaces | 1,460 | 1,460 | 192 | 1,017 | 119 | Q |
| Individual Space Heaters | 894 | 894 | 213 | 498 | 79 | 5 |
| District Heat | 96 | 96 | Q | 2 | Q | 77 |
| Boilers | 581 | 581 | 40 | 364 | 136 | Q |
| Packaged Heating Units | 1,347 | 1,347 | 494 | 758 | Q | 4 |
| Other | 185 | 185 | 62 | 60 | Q | Q |

^a Additionally, 282,000 buildings used propane; 38,000 buildings used wood, coal, or some other energy source; and no buildings used solar as a primary space heating energy source.

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

N=No responding cases in sample.

Notes: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B23. Primary Space-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | |
|--|--|----------------------------------|---|-------------|----------|---------------|
| | All Buildings | All Buildings with Space Heating | Primary Space-Heating Energy Source Used ^a | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat |
| All Buildings | 67,338 | 61,602 | 17,627 | 32,729 | 3,719 | 5,077 |
| Building Floorspace (Square Feet) | | | | | | |
| 1,001 to 5,000 | 6,774 | 5,684 | 1,567 | 3,080 | 482 | Q |
| 5,001 to 10,000 | 8,238 | 7,090 | 1,496 | 4,292 | 557 | Q |
| 10,001 to 25,000 | 11,153 | 9,865 | 3,035 | 5,320 | 597 | 232 |
| 25,001 to 50,000 | 9,311 | 8,565 | 2,866 | 4,416 | 486 | 577 |
| 50,001 to 100,000 | 10,112 | 9,597 | 2,765 | 5,261 | 484 | 836 |
| 100,001 to 200,000 | 8,271 | 7,893 | 2,497 | 4,128 | 383 | 853 |
| 200,001 to 500,000 | 6,851 | 6,445 | 1,509 | 3,531 | 474 | 894 |
| Over 500,000 | 6,628 | 6,465 | 1,892 | 2,701 | Q | 1,554 |
| Principal Building Activity | | | | | | |
| Education | 8,651 | 8,612 | 1,502 | 4,873 | 1,024 | 1,017 |
| Food Sales | 994 | 880 | 244 | 490 | Q | Q |
| Food Service | 1,851 | 1,721 | 492 | 1,008 | Q | Q |
| Health Care | 2,918 | 2,918 | 461 | 1,679 | Q | 626 |
| Inpatient | 1,865 | 1,865 | Q | 1,174 | Q | 538 |
| Outpatient | 1,053 | 1,053 | 431 | 505 | Q | Q |
| Lodging | 4,521 | 4,424 | 2,112 | 1,727 | Q | 517 |
| Mercantile | 10,398 | 9,848 | 4,273 | 4,968 | 319 | Q |
| Retail (Other Than Mall) | 4,766 | 4,615 | 1,332 | 2,790 | 290 | Q |
| Enclosed and Strip Malls | 5,631 | 5,233 | 2,942 | 2,178 | Q | N |
| Office | 12,044 | 11,810 | 4,334 | 5,279 | 720 | 1,367 |
| Public Assembly | 4,393 | 4,015 | 639 | 2,065 | Q | 805 |
| Public Order and Safety | 1,168 | 1,021 | Q | 470 | Q | 279 |
| Religious Worship | 3,405 | 3,383 | 321 | 2,222 | Q | Q |
| Service | 3,388 | 3,027 | 710 | 1,657 | Q | Q |
| Warehouse and Storage | 10,477 | 8,104 | 2,208 | 5,160 | 301 | Q |
| Other | 1,222 | 1,086 | 174 | 583 | Q | Q |
| Vacant | 1,908 | 754 | Q | 549 | Q | Q |
| Year Constructed | | | | | | |
| 1919 or Before | 4,034 | 3,593 | 231 | 2,292 | 544 | 471 |
| 1920 to 1945 | 6,445 | 5,559 | 826 | 3,258 | 462 | 726 |
| 1946 to 1959 | 9,127 | 8,402 | 1,712 | 4,656 | 747 | 954 |
| 1960 to 1969 | 10,866 | 9,966 | 2,039 | 5,496 | 717 | 1,300 |
| 1970 to 1979 | 11,840 | 10,916 | 3,678 | 5,421 | 661 | 704 |
| 1980 to 1989 | 13,931 | 12,566 | 5,433 | 5,930 | 329 | 493 |
| 1990 to 1999 | 11,094 | 10,600 | 3,708 | 5,677 | Q | 428 |
| Census Region | | | | | | |
| Northeast | 12,360 | 11,667 | 1,645 | 4,913 | 2,803 | 1,709 |
| Midwest | 16,761 | 15,916 | 2,355 | 11,348 | Q | 1,411 |
| South | 23,485 | 20,598 | 9,259 | 8,815 | 718 | 904 |
| West | 14,731 | 13,421 | 4,368 | 7,653 | Q | 1,053 |
| Climate Zone: 45-Year Average | | | | | | |
| Under 2,000 CDD and -- | | | | | | |
| More than 7,000 HDD | 5,890 | 5,669 | 427 | 3,692 | 816 | 222 |
| 5,500-7,000 HDD | 17,083 | 16,206 | 2,654 | 10,175 | 1,208 | 1,625 |
| 4,000-5,499 HDD | 16,243 | 15,292 | 3,638 | 7,148 | 1,519 | 2,225 |
| Fewer than 4,000 HDD | 16,333 | 14,923 | 5,619 | 8,306 | Q | 576 |
| 2,000 CDD or More and -- | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 9,512 | 5,288 | 3,409 | Q | 429 |

Table B23. Primary Space-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | |
|--|--|----------------------------------|---|-------------|----------|---------------|
| | All Buildings | All Buildings with Space Heating | Primary Space-Heating Energy Source Used ^a | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat |
| Workers (main shift) | | | | | | |
| Fewer than 5 | 14,321 | 10,552 | 2,259 | 6,115 | 788 | 264 |
| 5 to 9 | 6,325 | 6,020 | 1,412 | 3,539 | 484 | 284 |
| 10 to 19 | 8,028 | 7,762 | 2,527 | 4,136 | 336 | 365 |
| 20 to 49 | 10,814 | 10,347 | 3,290 | 5,671 | 564 | 509 |
| 50 to 99 | 8,898 | 8,536 | 2,840 | 4,214 | 714 | 546 |
| 100 to 249 | 8,356 | 8,053 | 2,201 | 4,336 | 479 | 966 |
| 250 or More | 10,595 | 10,333 | 3,099 | 4,719 | 355 | 2,143 |
| Weekly Operating Hours | | | | | | |
| 39 or Fewer | 6,596 | 4,217 | 564 | 2,349 | 444 | Q |
| 40 to 48 | 13,105 | 12,090 | 3,391 | 6,705 | 753 | 632 |
| 49 to 60 | 14,200 | 13,677 | 3,642 | 7,681 | 1,084 | 817 |
| 61 to 84 | 12,458 | 11,787 | 4,240 | 5,905 | 631 | 785 |
| 85 to 167 | 9,116 | 8,399 | 2,526 | 4,322 | 485 | 818 |
| Open Continuously | 11,863 | 11,432 | 3,263 | 5,768 | 323 | 1,991 |
| Energy Sources (more than one may apply) | | | | | | |
| Electricity | 65,716 | 61,565 | 17,627 | 32,701 | 3,711 | 5,077 |
| Natural Gas | 45,525 | 44,385 | 8,437 | 32,729 | 888 | 2,107 |
| Fuel Oil | 13,285 | 13,074 | 2,710 | 4,852 | 3,719 | 1,578 |
| District Heat | 5,891 | 5,862 | 474 | 284 | Q | 5,077 |
| District Chilled Water | 2,750 | 2,739 | 310 | 334 | Q | 2,084 |
| Propane | 6,290 | 6,076 | 1,468 | 1,360 | 1,044 | Q |
| Other | 2,322 | 2,276 | 507 | 1,104 | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | |
| Buildings with Space Heating | 61,602 | 61,602 | 17,627 | 32,729 | 3,719 | 5,077 |
| Buildings with Cooling | 58,474 | 56,361 | 17,160 | 30,003 | 2,912 | 4,392 |
| Buildings with Water Heating | 56,115 | 54,204 | 15,562 | 29,379 | 3,085 | 4,519 |
| Buildings with Cooking | 24,681 | 23,813 | 7,203 | 12,286 | 1,549 | 2,035 |
| Buildings with Manufacturing | 3,126 | 3,031 | 894 | 1,708 | Q | Q |
| Buildings with Electricity Generation | 11,882 | 11,643 | 3,298 | 5,682 | 726 | 1,782 |
| Percent of Floorspace Heated | | | | | | |
| Not Heated | 5,736 | N | N | N | N | N |
| 1 to 50 | 7,593 | 7,593 | 3,013 | 3,648 | 481 | Q |
| 51 to 99 | 10,745 | 10,745 | 3,275 | 5,829 | 409 | 837 |
| 100 | 43,264 | 43,264 | 11,339 | 23,252 | 2,829 | 4,176 |
| Heating Equipment (more than one may apply) | | | | | | |
| Heat Pumps | 8,923 | 8,923 | 5,009 | 3,076 | Q | 588 |
| Furnaces | 14,449 | 14,449 | 2,281 | 10,311 | 821 | Q |
| Individual Space Heaters | 17,349 | 17,349 | 4,788 | 9,945 | 683 | 1,042 |
| District Heat | 5,534 | 5,534 | Q | 211 | Q | 5,077 |
| Boilers | 19,522 | 19,522 | 2,171 | 13,918 | 2,717 | Q |
| Packaged Heating Units | 25,743 | 25,743 | 10,090 | 13,958 | 333 | 602 |
| Other | 4,073 | 4,073 | 1,807 | 1,634 | Q | Q |

^a Additionally, buildings comprising 2,107 million square feet used propane; buildings comprising 343 million square feet used wood, coal, or some other energy source; and no buildings used solar as a primary space heating energy source.

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

N=No responding cases in sample.

Notes: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|----------------------------|--|-------------|------------------------|--|----------------------------|--|-------------|------------------------|
| | All Buildings | All Buildings with Cooling | Cooling Energy Sources (more than one may apply) | | | All Buildings | All Buildings with Cooling | Cooling Energy Sources (more than one may apply) | | |
| | | | Electricity | Natural Gas | District Chilled Water | | | Electricity | Natural Gas | District Chilled Water |
| All Buildings | 4,657 | 3,560 | 3,450 | 142 | 50 | 67,338 | 58,474 | 55,545 | 1,914 | 2,750 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,680 | 1,640 | Q | Q | 6,774 | 4,879 | 4,784 | Q | Q |
| 5,001 to 10,000 | 1,110 | 828 | 796 | Q | Q | 8,238 | 6,212 | 5,938 | Q | Q |
| 10,001 to 25,000 | 708 | 611 | 596 | 23 | Q | 11,153 | 9,530 | 9,307 | 325 | Q |
| 25,001 to 50,000 | 257 | 223 | 214 | 8 | 7 | 9,311 | 8,116 | 7,753 | 268 | 294 |
| 50,001 to 100,000 | 145 | 134 | 127 | 4 | 7 | 10,112 | 9,401 | 8,870 | 315 | 525 |
| 100,001 to 200,000 | 59 | 55 | 51 | 2 | 5 | 8,271 | 7,609 | 7,011 | 282 | 630 |
| 200,001 to 500,000 | 23 | 21 | 20 | Q | 2 | 6,851 | 6,345 | 5,991 | Q | 470 |
| Over 500,000 | 7 | 7 | 6 | Q | 1 | 6,628 | 6,382 | 5,890 | Q | 630 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 274 | 265 | Q | Q | 8,651 | 7,973 | 7,305 | Q | 676 |
| Food Sales | 174 | 166 | 148 | Q | N | 994 | 978 | 947 | Q | N |
| Food Service | 349 | 324 | 312 | Q | Q | 1,851 | 1,760 | 1,687 | Q | Q |
| Health Care | 127 | 127 | 125 | Q | 2 | 2,918 | 2,815 | 2,537 | Q | 433 |
| Inpatient | 11 | 11 | 9 | Q | 2 | 1,865 | 1,762 | 1,554 | Q | 356 |
| Outpatient | 116 | 116 | 116 | Q | Q | 1,053 | 1,053 | 983 | Q | Q |
| Lodging | 153 | 126 | 123 | Q | Q | 4,521 | 4,051 | 3,880 | Q | 219 |
| Mercantile | 667 | 632 | 622 | 26 | Q | 10,398 | 10,174 | 9,914 | 462 | Q |
| Retail (Other Than Mall) | 534 | 499 | 491 | Q | Q | 4,766 | 4,573 | 4,423 | Q | Q |
| Enclosed and Strip Malls | 133 | 132 | 131 | Q | Q | 5,631 | 5,601 | 5,492 | Q | Q |
| Office | 739 | 716 | 695 | 31 | 6 | 12,044 | 11,782 | 11,024 | 319 | 678 |
| Public Assembly | 305 | 232 | 214 | Q | Q | 4,393 | 3,859 | 3,544 | Q | 436 |
| Public Order and Safety | 72 | 32 | 31 | Q | Q | 1,168 | 760 | 706 | Q | Q |
| Religious Worship | 307 | 232 | 231 | Q | Q | 3,405 | 2,765 | 2,763 | Q | Q |
| Service | 478 | 289 | 288 | Q | Q | 3,388 | 2,481 | 2,470 | Q | Q |
| Warehouse and Storage | 603 | 308 | 305 | Q | Q | 10,477 | 7,621 | 7,520 | Q | Q |
| Other | 102 | 76 | 64 | Q | Q | 1,222 | 1,087 | 880 | Q | Q |
| Vacant | 253 | 27 | 27 | N | N | 1,908 | 368 | 368 | N | N |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 260 | 245 | Q | Q | 4,034 | 2,911 | 2,632 | Q | Q |
| 1920 to 1945 | 499 | 313 | 312 | Q | 2 | 6,445 | 4,383 | 4,235 | Q | 134 |
| 1946 to 1959 | 763 | 589 | 578 | Q | 5 | 9,127 | 7,601 | 7,160 | Q | 406 |
| 1960 to 1969 | 665 | 496 | 472 | 26 | 7 | 10,866 | 9,325 | 8,676 | 353 | 633 |
| 1970 to 1979 | 774 | 649 | 636 | 35 | Q | 11,840 | 11,050 | 10,583 | 376 | 492 |
| 1980 to 1989 | 846 | 702 | 693 | 11 | Q | 13,931 | 12,849 | 12,490 | 300 | 424 |
| 1990 to 1999 | 690 | 549 | 514 | Q | 4 | 11,094 | 10,355 | 9,770 | 416 | 407 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 473 | 459 | 13 | 2 | 12,360 | 10,311 | 9,766 | 446 | 326 |
| Midwest | 1,188 | 861 | 825 | 48 | 14 | 16,761 | 14,371 | 13,474 | 550 | 746 |
| South | 1,762 | 1,506 | 1,492 | Q | Q | 23,485 | 21,549 | 20,908 | 266 | 939 |
| West | 1,021 | 720 | 673 | 60 | 13 | 14,731 | 12,243 | 11,396 | 652 | 739 |
| Climate Zone: 45-Year Average | | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | | |
| More than 7,000 HDD | 525 | 366 | 347 | Q | Q | 5,890 | 4,804 | 4,631 | 249 | Q |
| 5,500-7,000 HDD | 986 | 711 | 689 | 35 | 6 | 17,083 | 14,289 | 13,284 | 743 | 763 |
| 4,000-5,499 HDD | 1,085 | 766 | 734 | 30 | Q | 16,243 | 13,999 | 13,213 | 423 | 653 |
| Fewer than 4,000 HDD | 1,134 | 913 | 885 | 42 | 7 | 16,333 | 14,535 | 13,972 | 405 | 683 |
| 2,000 CDD or More and -- | | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 803 | 795 | Q | 23 | 11,788 | 10,847 | 10,444 | Q | 589 |

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|---|--------------------------------|----------------------------|--|-------------|------------------------|--|----------------------------|--|-------------|------------------------|
| | All Buildings | All Buildings with Cooling | Cooling Energy Sources (more than one may apply) | | | All Buildings | All Buildings with Cooling | Cooling Energy Sources (more than one may apply) | | |
| | | | Electricity | Natural Gas | District Chilled Water | | | Electricity | Natural Gas | District Chilled Water |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 1,513 | 1,466 | 63 | Q | 14,321 | 8,704 | 8,396 | 398 | Q |
| 5 to 9 | 807 | 681 | 667 | Q | Q | 6,325 | 5,291 | 5,146 | Q | Q |
| 10 to 19 | 683 | 636 | 617 | Q | Q | 8,028 | 7,409 | 7,086 | Q | Q |
| 20 to 49 | 487 | 433 | 420 | Q | 3 | 10,814 | 9,930 | 9,634 | 258 | 162 |
| 50 to 99 | 174 | 169 | 163 | Q | 10 | 8,898 | 8,519 | 8,208 | 287 | 478 |
| 100 to 249 | 90 | 88 | 82 | 5 | 4 | 8,356 | 8,129 | 7,505 | 361 | 484 |
| 250 or More | 39 | 39 | 35 | 0 | 5 | 10,595 | 10,491 | 9,570 | 173 | 1,234 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 439 | 438 | Q | Q | 6,596 | 3,113 | 3,085 | Q | Q |
| 40 to 48 | 1,156 | 968 | 955 | 24 | Q | 13,105 | 11,041 | 10,724 | 321 | 239 |
| 49 to 60 | 986 | 850 | 808 | 40 | 13 | 14,200 | 13,225 | 12,456 | 418 | 589 |
| 61 to 84 | 664 | 563 | 547 | 20 | 6 | 12,458 | 11,701 | 11,074 | 344 | 504 |
| 85 to 167 | 474 | 436 | 419 | 29 | 4 | 9,116 | 8,528 | 7,964 | 380 | 505 |
| Open Continuously | 398 | 304 | 285 | Q | 11 | 11,863 | 10,866 | 10,242 | 281 | 893 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 3,560 | 3,450 | 142 | 50 | 65,716 | 58,474 | 55,545 | 1,914 | 2,750 |
| Natural Gas | 2,670 | 2,335 | 2,237 | 142 | 21 | 45,525 | 42,147 | 40,387 | 1,914 | 1,316 |
| Fuel Oil | 434 | 302 | 299 | 2 | 3 | 13,285 | 12,185 | 11,591 | 218 | 749 |
| District Heat | 117 | 97 | 73 | Q | 43 | 5,891 | 5,165 | 3,459 | Q | 2,354 |
| District Chilled Water | 50 | 50 | 24 | Q | 50 | 2,750 | 2,750 | 1,093 | Q | 2,750 |
| Propane | 451 | 318 | 315 | Q | Q | 6,290 | 5,415 | 5,327 | Q | Q |
| Other | 153 | 107 | 106 | Q | Q | 2,322 | 2,069 | 1,975 | Q | Q |
| Primary Space-Heating Energy Source | | | | | | | | | | |
| Electricity | 1,128 | 1,058 | 1,055 | Q | Q | 17,627 | 17,160 | 16,992 | Q | 310 |
| Natural Gas | 2,189 | 1,883 | 1,806 | 120 | 3 | 32,729 | 30,003 | 28,934 | 1,663 | 334 |
| Fuel Oil | 302 | 192 | 192 | Q | Q | 3,719 | 2,912 | 2,907 | Q | Q |
| District Heat | 77 | 58 | 35 | Q | 28 | 5,077 | 4,392 | 2,746 | Q | 2,084 |
| Propane | 282 | 197 | 197 | N | N | 2,107 | 1,631 | 1,627 | N | N |
| Other | 38 | Q | Q | N | N | 343 | 263 | Q | N | N |
| Water-Heating Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 1,546 | 1,435 | 1,402 | 47 | Q | 24,171 | 23,177 | 22,748 | 573 | 447 |
| Natural Gas | 1,520 | 1,374 | 1,308 | 81 | 15 | 29,196 | 27,461 | 26,533 | 1,358 | 498 |
| Fuel Oil | 110 | 70 | 70 | Q | Q | 2,218 | 1,890 | 1,877 | Q | Q |
| District Heat | 62 | 50 | 38 | Q | 19 | 4,182 | 3,723 | 2,404 | Q | 1,729 |
| Propane | 130 | 109 | 109 | N | Q | 1,371 | 1,141 | 1,129 | N | Q |
| Cooking Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 437 | 409 | 387 | 27 | 4 | 13,733 | 13,247 | 12,710 | 352 | 530 |
| Natural Gas | 505 | 479 | 464 | 22 | 4 | 16,785 | 16,268 | 15,695 | 615 | 701 |
| Propane | 118 | 95 | 95 | N | Q | 1,754 | 1,634 | 1,632 | N | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,400 | 3,297 | 137 | 49 | 61,602 | 56,361 | 53,459 | 1,898 | 2,739 |
| Buildings with Cooling | 3,560 | 3,560 | 3,450 | 142 | 50 | 58,474 | 58,474 | 55,545 | 1,914 | 2,750 |
| Buildings with Water Heating | 3,239 | 2,915 | 2,809 | 119 | 37 | 56,115 | 52,589 | 49,968 | 1,744 | 2,455 |
| Buildings with Cooking | 857 | 792 | 766 | 31 | 6 | 24,681 | 23,730 | 22,723 | 705 | 1,047 |
| Buildings with Manufacturing | 151 | 129 | 127 | Q | Q | 3,126 | 2,861 | 2,805 | Q | Q |
| Buildings with Electricity Generation | 172 | 149 | 138 | Q | 5 | 11,882 | 11,538 | 10,842 | 243 | 919 |

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|----------------------------|--|-------------|------------------------|--|----------------------------|--|-------------|------------------------|
| | All Buildings | All Buildings with Cooling | Cooling Energy Sources (more than one may apply) | | | All Buildings | All Buildings with Cooling | Cooling Energy Sources (more than one may apply) | | |
| | | | Electricity | Natural Gas | District Chilled Water | | | Electricity | Natural Gas | District Chilled Water |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 1,097 | N | N | N | N | 8,864 | N | N | N | N |
| 1 to 50 | 1,012 | 1,012 | 1,005 | 20 | Q | 16,846 | 16,846 | 16,536 | 435 | Q |
| 51 to 99 | 751 | 751 | 720 | 32 | 8 | 16,966 | 16,966 | 16,117 | 609 | 772 |
| 100 | 1,796 | 1,796 | 1,725 | 90 | 40 | 24,662 | 24,662 | 22,893 | 870 | 1,805 |
| Cooling Equipment (more than one may apply) | | | | | | | | | | |
| Residential-Type Central | | | | | | | | | | |
| Air Conditioners | 676 | 676 | 676 | Q | Q | 8,329 | 8,329 | 8,329 | Q | Q |
| Heat Pumps | 485 | 485 | 485 | 17 | 4 | 9,147 | 9,147 | 9,120 | 187 | 336 |
| Individual Air Conditioners | 799 | 799 | 799 | 18 | Q | 14,276 | 14,276 | 14,276 | 376 | 359 |
| District Chilled Water | 50 | 50 | 24 | Q | 50 | 2,750 | 2,750 | 1,093 | Q | 2,750 |
| Central Chillers | 130 | 130 | 127 | 2 | 1 | 12,909 | 12,909 | 12,405 | 272 | 386 |
| Packaged Air Conditioning | | | | | | | | | | |
| Units | 1,953 | 1,953 | 1,870 | 111 | Q | 36,527 | 36,527 | 35,387 | 1,595 | 721 |
| Swamp Coolers | 136 | 136 | 135 | Q | Q | 2,219 | 2,219 | 2,175 | Q | Q |
| Other | 49 | 49 | 48 | Q | Q | 1,312 | 1,312 | 1,244 | Q | Q |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B25. Water-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|--|--------------------------------|----------------------------------|--|-------------|----------|---------------|---------|
| | All Buildings | All Buildings with Water Heating | Water-Heating Energy Sources Used (more than one may apply) | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane |
| All Buildings | 4,657 | 3,239 | 1,546 | 1,520 | 110 | 62 | 130 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,456 | 795 | 574 | Q | Q | Q |
| 5,001 to 10,000 | 1,110 | 778 | 317 | 429 | Q | Q | Q |
| 10,001 to 25,000 | 708 | 574 | 265 | 274 | 14 | 9 | 31 |
| 25,001 to 50,000 | 257 | 222 | 87 | 127 | 9 | 14 | Q |
| 50,001 to 100,000 | 145 | 127 | 51 | 71 | 5 | 9 | Q |
| 100,001 to 200,000 | 59 | 54 | 21 | 31 | Q | 5 | Q |
| 200,001 to 500,000 | 23 | 21 | 7 | 12 | 2 | 2 | Q |
| Over 500,000 | 7 | 7 | 4 | 3 | Q | 1 | N |
| Principal Building Activity | | | | | | | |
| Education | 327 | 240 | 95 | 132 | 9 | 19 | Q |
| Food Sales | 174 | 163 | 68 | 82 | Q | Q | Q |
| Food Service | 349 | 349 | 90 | 223 | Q | Q | Q |
| Health Care | 127 | 126 | 67 | 55 | Q | 3 | Q |
| Inpatient | 11 | 11 | Q | 8 | 1 | 3 | N |
| Outpatient | 116 | 115 | 66 | 47 | Q | Q | Q |
| Lodging | 153 | 149 | 46 | 86 | Q | 17 | Q |
| Mercantile | 667 | 439 | 263 | 181 | Q | N | Q |
| Retail (Other Than Mall) | 534 | 323 | 181 | 141 | Q | N | Q |
| Enclosed and Strip Malls | 133 | 116 | 82 | 40 | Q | N | Q |
| Office | 739 | 615 | 371 | 216 | 26 | 9 | Q |
| Public Assembly | 305 | 249 | 110 | 128 | Q | 6 | Q |
| Public Order and Safety | 72 | 41 | Q | 21 | Q | Q | Q |
| Religious Worship | 307 | 252 | 84 | 146 | Q | Q | Q |
| Service | 478 | 280 | 152 | 110 | Q | Q | Q |
| Warehouse and Storage | 603 | 227 | 148 | 84 | Q | Q | N |
| Other | 102 | 64 | 30 | 30 | Q | Q | N |
| Vacant | 253 | 44 | Q | 27 | Q | N | Q |
| Year Constructed | | | | | | | |
| 1919 or Before | 419 | 277 | 93 | 174 | 12 | 5 | Q |
| 1920 to 1945 | 499 | 311 | 123 | 163 | Q | 8 | Q |
| 1946 to 1959 | 763 | 493 | 212 | 239 | 41 | 11 | Q |
| 1960 to 1969 | 665 | 493 | 213 | 244 | 18 | 11 | Q |
| 1970 to 1979 | 774 | 592 | 298 | 277 | Q | 7 | Q |
| 1980 to 1989 | 846 | 623 | 379 | 206 | Q | 11 | Q |
| 1990 to 1999 | 690 | 450 | 229 | 217 | Q | Q | Q |
| Census Region | | | | | | | |
| Northeast | 686 | 515 | 214 | 168 | 87 | 15 | 56 |
| Midwest | 1,188 | 776 | 307 | 452 | Q | 14 | 38 |
| South | 1,762 | 1,179 | 707 | 470 | Q | 16 | Q |
| West | 1,021 | 769 | 318 | 431 | Q | 17 | Q |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 2,376 | 1,312 | 637 | 616 | Q | 15 | 46 |
| 5 to 9 | 807 | 643 | 286 | 308 | Q | Q | Q |
| 10 to 19 | 683 | 586 | 318 | 243 | Q | 9 | Q |
| 20 to 49 | 487 | 417 | 184 | 204 | 22 | 10 | Q |
| 50 to 99 | 174 | 159 | 75 | 79 | 6 | 9 | Q |
| 100 to 249 | 90 | 85 | 29 | 52 | 4 | 6 | Q |
| 250 or More | 39 | 36 | 16 | 18 | 1 | 5 | Q |

Table B25. Water-Heating Energy Sources, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|---|--------------------------------|----------------------------------|---|-------------|----------|---------------|---------|
| | All Buildings | All Buildings with Water Heating | Water-Heating Energy Sources Used (more than one may apply) | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane |
| Weekly Operating Hours | | | | | | | |
| 39 or Fewer | 978 | 427 | 195 | 192 | Q | Q | Q |
| 40 to 48 | 1,156 | 779 | 442 | 312 | 16 | 16 | Q |
| 49 to 60 | 986 | 746 | 415 | 309 | 22 | 7 | 25 |
| 61 to 84 | 664 | 521 | 210 | 292 | 15 | 8 | Q |
| 85 to 167 | 474 | 436 | 181 | 233 | Q | 9 | Q |
| Open Continuously | 398 | 330 | 103 | 182 | 19 | 23 | 18 |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 4,395 | 3,239 | 1,546 | 1,520 | 110 | 62 | 130 |
| Natural Gas | 2,670 | 2,191 | 748 | 1,520 | 9 | 17 | Q |
| Fuel Oil | 434 | 288 | 109 | 65 | 110 | 4 | Q |
| District Heat | 117 | 101 | 37 | 22 | Q | 62 | Q |
| District Chilled Water | 50 | 37 | Q | 15 | Q | 19 | Q |
| Propane | 451 | 334 | 165 | 21 | 44 | Q | 130 |
| Other | 153 | 89 | 54 | 33 | Q | Q | Q |
| Primary Space Heating Energy Source | | | | | | | |
| Electricity | 1,128 | 867 | 687 | 185 | Q | Q | 12 |
| Natural Gas | 2,189 | 1,759 | 583 | 1,232 | Q | Q | N |
| Fuel Oil | 302 | 205 | 74 | Q | 99 | Q | Q |
| District Heat | 77 | 70 | 15 | 20 | Q | 45 | N |
| Propane | 282 | 174 | 98 | N | Q | N | 76 |
| Other | 38 | Q | Q | Q | Q | N | Q |
| Cooking Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 437 | 410 | 199 | 190 | 18 | 8 | 41 |
| Natural Gas | 505 | 497 | 111 | 412 | 6 | 4 | Q |
| Propane | 118 | 105 | 38 | Q | 17 | Q | 55 |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,087 | 1,465 | 1,459 | 109 | 61 | 116 |
| Buildings with Cooling | 3,560 | 2,915 | 1,435 | 1,375 | 70 | 50 | 109 |
| Buildings with Water Heating | 3,239 | 3,239 | 1,546 | 1,520 | 110 | 62 | 130 |
| Buildings with Cooking | 857 | 818 | 283 | 481 | 35 | 11 | 74 |
| Buildings with Manufacturing | 151 | 89 | 55 | 36 | Q | Q | Q |
| Buildings with Electricity Generation | 172 | 143 | 63 | 68 | Q | 12 | Q |
| Water Heating Equipment | | | | | | | |
| Centralized System | 2,472 | 2,472 | 1,048 | 1,244 | 88 | 52 | 104 |
| Distributed System | 566 | 566 | 399 | 173 | Q | 5 | Q |
| Combination of Centralized and Distributed System | 200 | 200 | 99 | 103 | Q | 5 | Q |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA 871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B26. Water-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|----------------------------------|---|-------------|----------|---------------|---------|
| | All Buildings | All Buildings with Water Heating | Water-Heating Energy Sources Used (more than one may apply) | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane |
| All Buildings | 67,338 | 56,115 | 24,171 | 29,196 | 2,218 | 4,182 | 1,371 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 6,774 | 4,280 | 2,307 | 1,719 | Q | Q | Q |
| 5,001 to 10,000 | 8,238 | 5,748 | 2,287 | 3,204 | Q | Q | Q |
| 10,001 to 25,000 | 11,153 | 9,000 | 4,220 | 4,221 | 224 | 164 | 493 |
| 25,001 to 50,000 | 9,311 | 8,088 | 3,175 | 4,602 | 304 | 471 | Q |
| 50,001 to 100,000 | 10,112 | 8,887 | 3,590 | 4,924 | 351 | 613 | Q |
| 100,001 to 200,000 | 8,271 | 7,527 | 2,970 | 4,344 | Q | 732 | Q |
| 200,001 to 500,000 | 6,851 | 6,258 | 2,073 | 3,446 | 437 | 758 | Q |
| Over 500,000 | 6,628 | 6,327 | 3,551 | 2,736 | Q | 1,295 | N |
| Principal Building Activity | | | | | | | |
| Education | 8,651 | 8,059 | 1,996 | 4,938 | 831 | 882 | Q |
| Food Sales | 994 | 951 | 284 | 592 | Q | Q | Q |
| Food Service | 1,851 | 1,846 | 509 | 1,277 | Q | Q | Q |
| Health Care | 2,918 | 2,903 | 619 | 1,649 | 219 | 713 | Q |
| Inpatient | 1,865 | 1,862 | Q | 1,165 | 206 | 628 | N |
| Outpatient | 1,053 | 1,040 | 478 | 484 | Q | Q | Q |
| Lodging | 4,521 | 4,442 | 745 | 3,152 | Q | 536 | 251 |
| Mercantile | 10,398 | 8,698 | 5,959 | 3,811 | Q | N | Q |
| Retail (Other Than Mall) | 4,766 | 3,453 | 1,937 | 1,519 | Q | N | Q |
| Enclosed and Strip Malls | 5,631 | 5,244 | 4,022 | 2,293 | Q | N | Q |
| Office | 12,044 | 10,872 | 5,771 | 4,460 | 284 | 953 | Q |
| Public Assembly | 4,393 | 3,893 | 1,295 | 2,061 | Q | 597 | Q |
| Public Order and Safety | 1,168 | 830 | Q | 454 | Q | Q | Q |
| Religious Worship | 3,405 | 3,109 | 1,109 | 1,812 | Q | Q | Q |
| Service | 3,388 | 2,351 | 1,353 | 978 | Q | Q | Q |
| Warehouse and Storage | 10,477 | 6,743 | 3,950 | 3,145 | Q | Q | N |
| Other | 1,222 | 983 | 269 | 569 | Q | Q | N |
| Vacant | 1,908 | 436 | Q | 298 | Q | N | Q |
| Year Constructed | | | | | | | |
| 1919 or Before | 4,034 | 3,130 | 1,034 | 1,848 | 187 | 256 | Q |
| 1920 to 1945 | 6,445 | 4,644 | 1,551 | 2,516 | Q | 627 | Q |
| 1946 to 1959 | 9,127 | 7,154 | 2,235 | 4,047 | 578 | 813 | Q |
| 1960 to 1969 | 10,866 | 9,421 | 3,438 | 5,390 | 424 | 1,029 | Q |
| 1970 to 1979 | 11,840 | 10,182 | 4,981 | 4,701 | 322 | 574 | Q |
| 1980 to 1989 | 13,931 | 12,137 | 6,533 | 5,483 | 303 | 507 | Q |
| 1990 to 1999 | 11,094 | 9,446 | 4,399 | 5,211 | Q | 377 | Q |
| Census Region | | | | | | | |
| Northeast | 12,360 | 10,577 | 4,485 | 4,074 | 1,678 | 1,300 | 561 |
| Midwest | 16,761 | 13,702 | 4,633 | 8,323 | Q | 1,219 | 428 |
| South | 23,485 | 19,014 | 10,480 | 8,943 | 328 | 863 | Q |
| West | 14,731 | 12,822 | 4,574 | 7,856 | Q | 799 | Q |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 14,321 | 8,401 | 3,332 | 4,426 | Q | 288 | 438 |
| 5 to 9 | 6,325 | 5,145 | 2,094 | 2,666 | Q | Q | Q |
| 10 to 19 | 8,028 | 7,000 | 3,354 | 3,435 | Q | 305 | Q |
| 20 to 49 | 10,814 | 9,445 | 3,905 | 5,161 | 365 | 370 | Q |
| 50 to 99 | 8,898 | 8,166 | 3,558 | 4,525 | 375 | 439 | Q |
| 100 to 249 | 8,356 | 7,760 | 3,056 | 4,239 | 422 | 803 | Q |
| 250 or More | 10,595 | 10,199 | 4,874 | 4,743 | 546 | 1,810 | Q |

Table B26. Water-Heating Energy Sources, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|---|--|----------------------------------|---|-------------|----------|---------------|---------|
| | All Buildings | All Buildings with Water Heating | Water-Heating Energy Sources Used (more than one may apply) | | | | |
| | | | Electricity | Natural Gas | Fuel Oil | District Heat | Propane |
| Weekly Operating Hours | | | | | | | |
| 39 or Fewer | 6,596 | 3,340 | 1,148 | 1,851 | Q | Q | Q |
| 40 to 48 | 13,105 | 10,049 | 4,793 | 4,885 | 338 | 395 | Q |
| 49 to 60 | 14,200 | 12,280 | 6,003 | 5,728 | 369 | 523 | 282 |
| 61 to 84 | 12,458 | 11,334 | 5,919 | 5,481 | 403 | 685 | Q |
| 85 to 167 | 9,116 | 8,041 | 3,310 | 4,343 | Q | 690 | Q |
| Open Continuously | 11,863 | 11,070 | 2,998 | 6,907 | 504 | 1,876 | 268 |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 65,716 | 56,115 | 24,171 | 29,196 | 2,218 | 4,182 | 1,371 |
| Natural Gas | 45,525 | 41,366 | 13,914 | 29,196 | 959 | 1,829 | Q |
| Fuel Oil | 13,285 | 11,852 | 5,017 | 5,148 | 2,218 | 1,343 | Q |
| District Heat | 5,891 | 5,301 | 1,090 | 675 | Q | 4,182 | Q |
| District Chilled Water | 2,750 | 2,455 | 447 | 498 | Q | 1,729 | Q |
| Propane | 6,290 | 5,409 | 2,806 | 1,173 | 906 | Q | 1,371 |
| Other | 2,322 | 1,887 | 978 | 1,116 | Q | Q | Q |
| Primary Space Heating Energy Source | | | | | | | |
| Electricity | 17,627 | 15,562 | 11,461 | 4,830 | Q | Q | 288 |
| Natural Gas | 32,729 | 29,379 | 8,940 | 22,589 | 451 | Q | N |
| Fuel Oil | 3,719 | 3,085 | 1,021 | 437 | 1,639 | Q | Q |
| District Heat | 5,077 | 4,519 | 690 | 517 | Q | 3,776 | N |
| Propane | 2,107 | 1,454 | 824 | N | Q | N | 642 |
| Other | 343 | Q | Q | Q | Q | N | Q |
| Cooking Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 13,733 | 13,136 | 6,559 | 6,875 | 811 | 979 | 554 |
| Natural Gas | 16,785 | 16,431 | 5,166 | 11,979 | 654 | 1,235 | Q |
| Propane | 1,754 | 1,635 | 857 | Q | 436 | Q | 373 |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 61,602 | 54,204 | 23,070 | 28,479 | 2,206 | 4,162 | 1,227 |
| Buildings with Cooling | 58,474 | 52,589 | 23,177 | 27,461 | 1,890 | 3,723 | 1,141 |
| Buildings with Water Heating | 56,115 | 56,115 | 24,171 | 29,196 | 2,218 | 4,182 | 1,371 |
| Buildings with Cooking | 24,681 | 23,830 | 9,556 | 14,020 | 1,423 | 1,791 | 778 |
| Buildings with Manufacturing | 3,126 | 2,364 | 1,016 | 1,443 | Q | Q | Q |
| Buildings with Electricity Generation | 11,882 | 11,079 | 5,163 | 5,737 | 710 | 1,575 | Q |
| Water Heating Equipment | | | | | | | |
| Centralized System | 35,579 | 35,579 | 12,585 | 19,755 | 1,534 | 2,715 | 1,020 |
| Distributed System | 10,899 | 10,899 | 7,068 | 4,032 | Q | 566 | Q |
| Combination of Centralized and Distributed System | 9,637 | 9,637 | 4,519 | 5,409 | 498 | 901 | Q |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA 871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B27. Cooking Energy Sources, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|----------------------------|--|-------------|---------|--|----------------------------|--|-------------|---------|
| | All Buildings | All Buildings with Cooking | Cooking Energy Sources (more than one may apply) | | | All Buildings | All Buildings with Cooking | Cooking Energy Sources (more than one may apply) | | |
| | | | Electricity | Natural Gas | Propane | | | Electricity | Natural Gas | Propane |
| All Buildings | 4,657 | 857 | 437 | 505 | 118 | 67,338 | 24,681 | 13,733 | 16,785 | 1,754 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 357 | 189 | 189 | 70 | 6,774 | 1,095 | 574 | 602 | 205 |
| 5,001 to 10,000 | 1,110 | 176 | 76 | 121 | Q | 8,238 | 1,272 | 574 | 877 | Q |
| 10,001 to 25,000 | 708 | 150 | 76 | 80 | Q | 11,153 | 2,415 | 1,249 | 1,272 | Q |
| 25,001 to 50,000 | 257 | 72 | 39 | 46 | 5 | 9,311 | 2,630 | 1,432 | 1,637 | 184 |
| 50,001 to 100,000 | 145 | 54 | 30 | 35 | 4 | 10,112 | 3,901 | 2,157 | 2,503 | 336 |
| 100,001 to 200,000 | 59 | 29 | 16 | 19 | 2 | 8,271 | 4,092 | 2,260 | 2,705 | 348 |
| 200,001 to 500,000 | 23 | 14 | 8 | 11 | Q | 6,851 | 4,254 | 2,456 | 3,418 | Q |
| Over 500,000 | 7 | 5 | 3 | 4 | Q | 6,628 | 5,020 | 3,031 | 3,770 | Q |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 106 | 49 | 70 | 6 | 8,651 | 5,670 | 2,913 | 3,986 | 444 |
| Food Sales | 174 | 85 | 69 | 27 | Q | 994 | 676 | 406 | 373 | Q |
| Food Service | 349 | 316 | 142 | 220 | 71 | 1,851 | 1,761 | 858 | 1,348 | 273 |
| Health Care | 127 | 11 | 5 | 8 | Q | 2,918 | 1,812 | 1,078 | 1,461 | Q |
| Inpatient | 11 | 9 | 4 | 8 | Q | 1,865 | 1,738 | 1,016 | 1,443 | Q |
| Outpatient | 116 | Q | Q | Q | N | 1,053 | Q | Q | Q | N |
| Lodging | 153 | 41 | 17 | 23 | Q | 4,521 | 2,401 | 920 | 2,020 | Q |
| Mercantile | 667 | 96 | 58 | 58 | 6 | 10,398 | 5,218 | 3,059 | 3,481 | 388 |
| Retail (Other Than Mall) | 534 | 29 | 21 | Q | Q | 4,766 | 811 | 630 | 333 | Q |
| Enclosed and Strip Malls | 133 | 68 | 37 | 44 | 6 | 5,631 | 4,407 | 2,428 | 3,149 | 384 |
| Office | 739 | 19 | 12 | 10 | Q | 12,044 | 3,149 | 2,119 | 1,794 | Q |
| Public Assembly | 305 | 101 | 50 | 44 | Q | 4,393 | 2,027 | 1,204 | 1,183 | Q |
| Public Order and Safety | 72 | 12 | Q | Q | Q | 1,168 | 301 | Q | Q | Q |
| Religious Worship | 307 | 51 | 19 | 36 | Q | 3,405 | 842 | 428 | 569 | Q |
| Service | 478 | Q | Q | Q | N | 3,388 | Q | Q | Q | N |
| Warehouse and Storage | 603 | Q | Q | Q | N | 10,477 | Q | Q | Q | N |
| Other | 102 | Q | Q | Q | Q | 1,222 | Q | Q | Q | Q |
| Vacant | 253 | Q | Q | Q | N | 1,908 | Q | Q | Q | N |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 69 | 12 | 50 | Q | 4,034 | 1,091 | 425 | 766 | Q |
| 1920 to 1945 | 499 | 85 | 45 | 53 | Q | 6,445 | 2,232 | 1,132 | 1,508 | Q |
| 1946 to 1959 | 763 | 115 | 47 | 84 | Q | 9,127 | 3,195 | 1,467 | 2,416 | Q |
| 1960 to 1969 | 665 | 131 | 69 | 75 | Q | 10,866 | 4,178 | 2,428 | 2,786 | Q |
| 1970 to 1979 | 774 | 161 | 85 | 95 | 23 | 11,840 | 4,551 | 2,726 | 3,071 | 395 |
| 1980 to 1989 | 846 | 173 | 108 | 69 | 45 | 13,931 | 5,030 | 3,097 | 3,173 | 502 |
| 1990 to 1999 | 690 | 124 | 71 | 78 | 5 | 11,094 | 4,403 | 2,458 | 3,065 | 330 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 141 | 68 | 65 | 36 | 12,360 | 5,245 | 2,680 | 3,380 | 523 |
| Midwest | 1,188 | 221 | 92 | 153 | Q | 16,761 | 6,042 | 3,335 | 4,445 | Q |
| South | 1,762 | 315 | 206 | 160 | 35 | 23,485 | 8,569 | 5,166 | 5,345 | 789 |
| West | 1,021 | 181 | 71 | 127 | Q | 14,731 | 4,825 | 2,551 | 3,614 | Q |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 287 | 146 | 145 | Q | 14,321 | 1,651 | 830 | 778 | Q |
| 5 to 9 | 807 | 131 | 43 | 75 | Q | 6,325 | 1,341 | 545 | 836 | Q |
| 10 to 19 | 683 | 172 | 92 | 113 | Q | 8,028 | 2,021 | 879 | 1,433 | Q |
| 20 to 49 | 487 | 154 | 95 | 99 | 20 | 10,814 | 3,871 | 2,169 | 2,595 | 341 |
| 50 to 99 | 174 | 65 | 33 | 42 | 5 | 8,898 | 4,354 | 2,354 | 2,969 | 338 |
| 100 to 249 | 90 | 30 | 16 | 19 | 3 | 8,356 | 4,305 | 2,349 | 2,970 | 445 |
| 250 or More | 39 | 18 | 12 | 12 | Q | 10,595 | 7,138 | 4,608 | 5,204 | Q |

Table B27. Cooking Energy Sources, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|---|--------------------------------|----------------------------|--|-------------|---------|--|----------------------------|--|-------------|---------|
| | All Buildings | All Buildings with Cooking | Cooking Energy Sources (more than one may apply) | | | All Buildings | All Buildings with Cooking | Cooking Energy Sources (more than one may apply) | | |
| | | | Electricity | Natural Gas | Propane | | | Electricity | Natural Gas | Propane |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 93 | 32 | 42 | Q | 6,596 | 884 | 440 | 464 | Q |
| 40 to 48 | 1,156 | 97 | 34 | 57 | Q | 13,105 | 2,492 | 1,142 | 1,606 | Q |
| 49 to 60 | 986 | 131 | 55 | 80 | 12 | 14,200 | 4,159 | 2,298 | 2,646 | 266 |
| 61 to 84 | 664 | 188 | 84 | 140 | 19 | 12,458 | 6,052 | 3,464 | 4,443 | 284 |
| 85 to 167 | 474 | 264 | 182 | 134 | 40 | 9,116 | 4,659 | 2,917 | 2,618 | 472 |
| Open Continuously | 398 | 85 | 49 | 51 | 6 | 11,863 | 6,435 | 3,472 | 5,008 | 384 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 857 | 437 | 505 | 118 | 65,716 | 24,681 | 13,733 | 16,785 | 1,754 |
| Natural Gas | 2,670 | 615 | 264 | 505 | 3 | 45,525 | 19,857 | 10,015 | 16,785 | 292 |
| Fuel Oil | 434 | 92 | 47 | 35 | 25 | 13,285 | 7,840 | 4,612 | 5,264 | 756 |
| District Heat | 117 | 28 | 18 | Q | Q | 5,891 | 2,487 | 1,445 | 1,563 | Q |
| District Chilled Water | 50 | 6 | 4 | 4 | Q | 2,750 | 1,047 | 530 | 701 | Q |
| Propane | 451 | 158 | 87 | 5 | 118 | 6,290 | 3,005 | 1,838 | 616 | 1,754 |
| Other | 153 | 47 | 24 | 15 | Q | 2,322 | 1,331 | 968 | 717 | Q |
| Water Heating Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 1,546 | 283 | 199 | 111 | 38 | 24,171 | 9,556 | 6,559 | 5,166 | 857 |
| Natural Gas | 1,520 | 481 | 190 | 412 | Q | 29,185 | 14,020 | 6,875 | 11,979 | Q |
| Fuel Oil | 110 | 35 | 18 | 6 | 17 | 2,218 | 1,423 | 811 | 654 | 436 |
| District Heat | 62 | 11 | 8 | 4 | Q | 4,182 | 1,791 | 979 | 1,235 | Q |
| Propane | 130 | 74 | 41 | Q | 55 | 1,371 | 778 | 554 | Q | 373 |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 798 | 397 | 475 | 111 | 61,602 | 23,813 | 13,184 | 16,256 | 1,683 |
| Buildings with Cooling | 3,560 | 792 | 409 | 479 | 95 | 58,474 | 23,730 | 13,247 | 16,268 | 1,634 |
| Buildings with Water Heating | 3,239 | 818 | 410 | 497 | 105 | 56,115 | 23,830 | 13,136 | 16,431 | 1,635 |
| Buildings with Cooking | 857 | 857 | 437 | 505 | 118 | 24,681 | 24,681 | 13,733 | 16,785 | 1,754 |
| Buildings with Manufacturing | 151 | Q | Q | Q | Q | 3,126 | 495 | Q | Q | Q |
| Buildings with Electricity Generation | 172 | 63 | 37 | 43 | 5 | 11,882 | 7,823 | 4,881 | 5,615 | 444 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA 871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B28. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1999

| | 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 | 4,657 | 641 | 576 | 627 | 2,813 | 67,338 | 5,736 | 7,593 | 10,745 | 43,264 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 366 | 230 | 272 | 1,479 | 6,774 | 1,091 | 707 | 750 | 4,227 |
| 5,001 to 10,000 | 1,110 | 164 | 194 | 149 | 603 | 8,238 | 1,148 | 1,504 | 1,177 | 4,409 |
| 10,001 to 25,000 | 708 | 79 | 102 | 128 | 399 | 11,153 | 1,289 | 1,611 | 1,936 | 6,317 |
| 25,001 to 50,000 | 257 | 20 | 29 | 45 | 162 | 9,311 | 746 | 1,078 | 1,690 | 5,796 |
| 50,001 to 100,000 | 145 | 8 | 12 | 20 | 105 | 10,112 | 515 | 877 | 1,407 | 7,313 |
| 100,001 to 200,000 | 59 | 3 | 5 | 7 | 45 | 8,271 | 378 | 739 | 946 | 6,207 |
| 200,001 to 500,000 | 23 | 1 | 2 | 4 | 16 | 6,851 | 406 | 589 | 1,341 | 4,515 |
| Over 500,000 | 7 | Q | 1 | 2 | 5 | 6,628 | Q | 487 | 1,498 | 4,480 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | Q | Q | 43 | 269 | 8,651 | Q | Q | 1,184 | 7,253 |
| Food Sales | 174 | Q | Q | 58 | 84 | 994 | Q | Q | 151 | 623 |
| Food Service | 349 | Q | Q | 67 | 213 | 1,851 | Q | Q | 428 | 1,084 |
| Health Care | 127 | N | Q | 20 | 94 | 2,918 | N | Q | 496 | 2,272 |
| Inpatient | 11 | N | Q | 2 | 9 | 1,865 | N | Q | 295 | 1,477 |
| Outpatient | 116 | N | Q | Q | 85 | 1,053 | N | Q | Q | 795 |
| Lodging | 153 | Q | 12 | 22 | 117 | 4,521 | Q | 367 | 807 | 3,250 |
| Mercantile | 667 | 41 | 103 | 117 | 405 | 10,398 | 550 | 1,131 | 2,109 | 6,608 |
| Retail (Other Than Mall) | 534 | Q | 84 | 108 | 311 | 4,766 | Q | 711 | 1,211 | 2,693 |
| Enclosed and Strip Malls | 133 | Q | Q | 10 | 94 | 5,631 | Q | 420 | 898 | 3,915 |
| Office | 739 | Q | 22 | 98 | 608 | 12,044 | 234 | 486 | 2,570 | 8,754 |
| Public Assembly | 305 | 31 | 30 | 20 | 224 | 4,393 | 378 | 342 | 540 | 3,133 |
| Public Order and Safety | 72 | Q | Q | Q | 41 | 1,168 | Q | Q | Q | 819 |
| Religious Worship | 307 | Q | Q | 35 | 253 | 3,405 | Q | Q | 618 | 2,632 |
| Service | 478 | 57 | 72 | 94 | 255 | 3,388 | 362 | 406 | 628 | 1,993 |
| Warehouse and Storage | 603 | 247 | 205 | 29 | 123 | 10,477 | 2,373 | 3,749 | 850 | 3,505 |
| Other | 102 | Q | Q | Q | 70 | 1,222 | Q | Q | Q | 833 |
| Vacant | 253 | 168 | Q | Q | 58 | 1,908 | 1,154 | Q | Q | 505 |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 69 | 48 | 56 | 246 | 4,034 | 441 | 507 | 798 | 2,288 |
| 1920 to 1945 | 499 | 69 | 79 | 103 | 248 | 6,445 | 886 | 834 | 1,249 | 3,476 |
| 1946 to 1959 | 763 | 97 | 93 | 86 | 487 | 9,127 | 725 | 1,304 | 1,178 | 5,920 |
| 1960 to 1969 | 665 | 108 | 58 | 75 | 424 | 10,866 | 901 | 1,038 | 1,891 | 7,037 |
| 1970 to 1979 | 774 | 83 | 107 | 86 | 498 | 11,840 | 924 | 1,458 | 1,670 | 7,789 |
| 1980 to 1989 | 846 | 133 | 113 | 111 | 490 | 13,931 | 1,366 | 1,254 | 2,181 | 9,131 |
| 1990 to 1999 | 690 | 82 | 78 | 109 | 421 | 11,094 | 493 | 1,198 | 1,777 | 7,625 |
| Floors | | | | | | | | | | |
| One | 2,879 | 500 | 329 | 322 | 1,728 | 26,800 | 3,722 | 3,850 | 2,913 | 16,315 |
| Two | 1,168 | 94 | 209 | 163 | 702 | 16,985 | 1,052 | 2,534 | 2,616 | 10,783 |
| Three | 420 | 34 | 18 | 113 | 255 | 8,928 | 440 | 362 | 2,253 | 5,873 |
| Four to Nine | 178 | Q | 20 | 25 | 120 | 10,180 | 427 | 577 | 1,842 | 7,334 |
| Ten or More | 11 | Q | 1 | 3 | 8 | 4,445 | Q | 270 | 1,121 | 2,960 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 86 | 83 | 82 | 436 | 12,360 | 693 | 1,053 | 1,688 | 8,927 |
| Midwest | 1,188 | 138 | 151 | 175 | 724 | 16,761 | 846 | 1,571 | 2,323 | 12,022 |
| South | 1,762 | 259 | 182 | 254 | 1,067 | 23,485 | 2,887 | 2,538 | 4,335 | 13,725 |
| West | 1,021 | 158 | 160 | 117 | 586 | 14,731 | 1,310 | 2,432 | 2,399 | 8,590 |
| Climate Zone: 45-Year Average | | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | | |
| More than 7,000 HDD | 525 | Q | 64 | 64 | 347 | 5,890 | Q | 674 | 626 | 4,368 |
| 5,500-7,000 HDD | 986 | 115 | 105 | 145 | 621 | 17,083 | 877 | 1,091 | 2,478 | 12,637 |
| 4,000-5,499 HDD | 1,085 | 136 | 154 | 144 | 651 | 16,243 | 952 | 1,760 | 2,701 | 10,831 |
| Fewer than 4,000 HDD | 1,134 | 137 | 125 | 154 | 718 | 16,333 | 1,410 | 2,270 | 3,061 | 9,593 |
| 2,000 CDD or More and -- | | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 203 | 129 | 119 | 476 | 11,788 | 2,276 | 1,797 | 1,879 | 5,836 |

Table B28. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1999

| | 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 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 541 | 326 | 332 | 1,176 | 14,321 | 3,769 | 2,323 | 2,174 | 6,055 |
| 5 to 9 | 807 | 34 | 155 | 77 | 541 | 6,325 | 305 | 1,426 | 732 | 3,862 |
| 10 to 19 | 683 | 16 | 57 | 95 | 515 | 8,028 | 265 | 1,249 | 1,304 | 5,209 |
| 20 to 49 | 487 | 32 | 21 | 86 | 349 | 10,814 | 468 | 958 | 1,848 | 7,541 |
| 50 to 99 | 174 | 8 | 14 | 21 | 132 | 8,898 | 362 | 776 | 1,137 | 6,622 |
| 100 to 249 | 90 | Q | 2 | 10 | 69 | 8,356 | Q | 357 | 1,206 | 6,490 |
| 250 or More | 39 | Q | 1 | 7 | 31 | 10,595 | Q | 504 | 2,344 | 7,485 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 340 | 100 | 41 | 497 | 6,596 | 2,379 | 657 | 368 | 3,191 |
| 40 to 48 | 1,156 | 87 | 186 | 202 | 680 | 13,105 | 1,015 | 2,258 | 2,290 | 7,541 |
| 49 to 60 | 986 | 43 | 118 | 137 | 689 | 14,200 | 523 | 1,753 | 2,538 | 9,386 |
| 61 to 84 | 664 | 66 | 94 | 97 | 408 | 12,458 | 670 | 1,224 | 2,100 | 8,463 |
| 85 to 167 | 474 | 68 | 42 | 74 | 290 | 9,116 | 717 | 925 | 1,366 | 6,108 |
| Open Continuously | 398 | 37 | 36 | 76 | 250 | 11,863 | 431 | 775 | 2,082 | 8,575 |
| Vacancy Status | | | | | | | | | | |
| Completely Vacant | 140 | 110 | Q | Q | Q | 953 | 721 | Q | Q | Q |
| Mostly Vacant | 113 | 58 | Q | Q | 38 | 956 | 433 | Q | Q | 319 |
| Partially Vacant | 697 | 146 | 99 | 107 | 345 | 15,520 | 1,664 | 1,950 | 2,904 | 9,003 |
| Not At All Vacant | 3,707 | 327 | 454 | 515 | 2,410 | 49,910 | 2,918 | 5,438 | 7,797 | 33,757 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 387 | 569 | 626 | 2,813 | 65,716 | 4,151 | 7,564 | 10,737 | 43,264 |
| Natural Gas | 2,670 | 82 | 322 | 441 | 1,825 | 45,525 | 1,141 | 4,873 | 8,052 | 31,460 |
| Fuel Oil | 434 | Q | 62 | 59 | 311 | 13,285 | Q | 1,113 | 2,584 | 9,377 |
| District Heat | 117 | Q | Q | 22 | 90 | 5,891 | Q | Q | 986 | 4,708 |
| District Chilled Water | 50 | Q | Q | 4 | 43 | 2,750 | Q | Q | 379 | 2,298 |
| Propane | 451 | Q | 87 | 50 | 298 | 6,290 | Q | 1,046 | 1,083 | 3,947 |
| Other | 153 | Q | 49 | 17 | 84 | 2,322 | Q | 261 | 473 | 1,541 |
| Space-Heating Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 1,880 | N | 290 | 255 | 1,335 | 32,291 | N | 4,722 | 6,110 | 21,459 |
| Natural Gas | 2,380 | Q | 301 | 394 | 1,685 | 37,902 | Q | 4,319 | 6,642 | 26,932 |
| Fuel Oil | 377 | N | 58 | 52 | 266 | 5,611 | N | 564 | 786 | 4,260 |
| District Heat | 96 | N | Q | 16 | 80 | 5,534 | N | Q | 886 | 4,575 |
| Propane | 307 | N | 61 | 30 | 216 | 2,728 | N | 461 | 421 | 1,845 |
| Other | 94 | N | Q | Q | 42 | 945 | N | Q | Q | 593 |
| Primary Space-Heating Energy Source | | | | | | | | | | |
| Electricity | 1,128 | N | 189 | 165 | 774 | 17,627 | N | 3,013 | 3,275 | 11,339 |
| Natural Gas | 2,189 | N | 277 | 365 | 1,547 | 32,729 | N | 3,648 | 5,829 | 23,252 |
| Fuel Oil | 302 | N | 44 | 45 | 213 | 3,719 | N | 481 | 409 | 2,829 |
| District Heat | 77 | N | Q | 15 | 61 | 5,077 | N | Q | 837 | 4,176 |
| Propane | 282 | N | Q | 28 | 205 | 2,107 | N | Q | 339 | 1,445 |
| Other | 38 | N | Q | Q | Q | 343 | N | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | N | 576 | 627 | 2,813 | 61,602 | N | 7,593 | 10,745 | 43,264 |
| Buildings with Cooling | 3,560 | 159 | 461 | 524 | 2,415 | 58,474 | 2,113 | 6,619 | 9,939 | 39,802 |
| Buildings with Water Heating | 3,239 | 152 | 373 | 476 | 2,237 | 56,115 | 1,911 | 5,823 | 9,453 | 38,928 |
| Buildings with Cooking | 857 | 59 | 72 | 148 | 578 | 24,681 | 867 | 1,326 | 4,410 | 18,077 |
| Buildings with Manufacturing | 151 | Q | 37 | 14 | 92 | 3,126 | Q | 890 | 376 | 1,766 |
| Buildings with Electricity Generation | 172 | Q | Q | 25 | 129 | 11,882 | Q | 700 | 2,523 | 8,420 |

Table B28. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1999

| | 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 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 1,097 | 482 | 115 | 102 | 398 | 8,864 | 3,622 | 974 | 806 | 3,462 |
| 1 to 50 | 1,012 | 47 | 400 | 113 | 452 | 16,846 | 653 | 5,549 | 2,146 | 8,498 |
| 51 to 99 | 751 | 26 | 24 | 364 | 337 | 16,966 | 329 | 628 | 6,831 | 9,178 |
| 100 | 1,796 | 87 | 36 | 48 | 1,625 | 24,662 | 1,131 | 441 | 963 | 22,126 |
| Percent Lit When Open | | | | | | | | | | |
| Zero | 34 | Q | Q | N | Q | 173 | Q | Q | N | Q |
| 1 to 50 | 835 | 94 | 277 | 114 | 349 | 9,187 | 1,012 | 2,994 | 1,427 | 3,754 |
| 51 to 99 | 1,228 | 66 | 71 | 313 | 778 | 20,665 | 715 | 1,313 | 5,374 | 13,264 |
| 100 | 2,096 | 101 | 206 | 196 | 1,593 | 34,233 | 1,508 | 3,054 | 3,925 | 25,747 |
| Building Never Open/ Electricity Not Used | 464 | 354 | Q | Q | 86 | 3,080 | 2,400 | Q | Q | 445 |
| Heating Equipment (more than one may apply) | | | | | | | | | | |
| Heat Pumps | 492 | N | 53 | 70 | 369 | 8,923 | N | 1,098 | 1,797 | 6,028 |
| Furnaces | 1,460 | N | 236 | 271 | 953 | 14,449 | N | 2,718 | 3,042 | 8,689 |
| Individual Space Heaters | 894 | N | 137 | 150 | 607 | 17,349 | N | 2,432 | 3,332 | 11,585 |
| District Heat | 96 | N | Q | 16 | 80 | 5,534 | N | Q | 886 | 4,575 |
| Boilers | 581 | N | 54 | 66 | 460 | 19,522 | N | 1,203 | 2,977 | 15,343 |
| Packaged Heating Units | 1,347 | N | 129 | 232 | 986 | 25,743 | N | 2,702 | 4,661 | 18,380 |
| Other | 185 | N | 53 | 13 | 118 | 4,073 | N | 607 | 774 | 2,692 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | |
| Multipaned Windows | 2,130 | 82 | 233 | 293 | 1,521 | 38,193 | 1,232 | 3,380 | 6,378 | 27,204 |
| Tinted, Reflective, or Shading Glass | 1,283 | 58 | 161 | 197 | 868 | 29,915 | 1,138 | 2,841 | 5,318 | 20,619 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | |
| Variable Air-Volume System | 550 | 33 | 64 | 53 | 399 | 19,387 | 445 | 1,434 | 3,339 | 14,169 |
| Economizer Cycle | 567 | Q | 15 | 102 | 442 | 21,256 | Q | 902 | 3,565 | 16,640 |
| HVAC Maintenance | 2,786 | 81 | 302 | 419 | 1,983 | 53,395 | 1,412 | 5,057 | 8,836 | 38,090 |
| Energy Management and Control System (EMCS) | 460 | 8 | 24 | 41 | 387 | 21,613 | 360 | 989 | 3,492 | 16,771 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | | |
| Heating | 2,862 | N | 409 | 435 | 2,018 | 39,969 | N | 5,198 | 6,853 | 27,918 |
| Cooling | 2,622 | 103 | 368 | 375 | 1,776 | 39,161 | 1,418 | 4,837 | 6,496 | 26,410 |
| Lighting | 3,675 | 227 | 515 | 517 | 2,415 | 51,083 | 2,783 | 6,498 | 8,362 | 33,440 |
| Office Equipment | 184 | Q | 7 | 25 | 148 | 9,063 | Q | 395 | 1,408 | 6,998 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B29. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1999

| | 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 | 4,657 | 1,097 | 1,012 | 751 | 1,796 | 67,338 | 8,864 | 16,846 | 16,966 | 24,662 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 668 | 352 | 294 | 1,034 | 6,774 | 1,895 | 1,084 | 838 | 2,957 |
| 5,001 to 10,000 | 1,110 | 282 | 292 | 188 | 348 | 8,238 | 2,026 | 2,233 | 1,435 | 2,544 |
| 10,001 to 25,000 | 708 | 98 | 242 | 146 | 222 | 11,153 | 1,623 | 3,829 | 2,224 | 3,477 |
| 25,001 to 50,000 | 257 | 34 | 69 | 58 | 96 | 9,311 | 1,195 | 2,517 | 2,128 | 3,470 |
| 50,001 to 100,000 | 145 | 10 | 37 | 37 | 60 | 10,112 | 711 | 2,574 | 2,668 | 4,159 |
| 100,001 to 200,000 | 59 | 4 | 13 | 16 | 27 | 8,271 | 662 | 1,701 | 2,281 | 3,627 |
| 200,001 to 500,000 | 23 | 2 | 7 | 8 | 7 | 6,851 | 506 | 1,950 | 2,339 | 2,055 |
| Over 500,000 | 7 | Q | 1 | 3 | 2 | 6,628 | Q | 957 | 3,053 | 2,372 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 54 | 55 | 59 | 160 | 8,651 | 678 | 2,718 | 2,242 | 3,013 |
| Food Sales | 174 | Q | Q | 57 | 88 | 994 | Q | Q | 372 | 440 |
| Food Service | 349 | Q | 59 | 98 | 167 | 1,851 | Q | 274 | 752 | 734 |
| Health Care | 127 | Q | Q | 27 | 76 | 2,918 | Q | Q | 1,258 | 1,409 |
| Inpatient | 11 | Q | Q | 3 | 4 | 1,865 | Q | Q | 943 | 757 |
| Outpatient | 116 | N | Q | 23 | 72 | 1,053 | N | Q | 315 | 652 |
| Lodging | 153 | 27 | 12 | 35 | 80 | 4,521 | 470 | 368 | 1,542 | 2,141 |
| Mercantile | 667 | 35 | 210 | 152 | 270 | 10,398 | 224 | 1,982 | 3,227 | 4,965 |
| Retail (Other Than Mall) | 534 | 34 | 184 | 117 | 199 | 4,766 | 194 | 1,662 | 1,266 | 1,645 |
| Enclosed and Strip Malls | 133 | Q | Q | 35 | 71 | 5,631 | Q | Q | 1,961 | 3,320 |
| Office | 739 | 22 | 63 | 154 | 499 | 12,044 | 262 | 893 | 4,525 | 6,363 |
| Public Assembly | 305 | 73 | 20 | 54 | 157 | 4,393 | 535 | 602 | 1,059 | 2,198 |
| Public Order and Safety | 72 | Q | 16 | 9 | 6 | 1,168 | Q | 200 | 285 | 274 |
| Religious Worship | 307 | 76 | 55 | 41 | 136 | 3,405 | 640 | 746 | 688 | 1,331 |
| Service | 478 | 190 | 185 | 34 | 69 | 3,388 | 907 | 1,598 | 338 | 545 |
| Warehouse and Storage | 603 | 295 | 264 | Q | 26 | 10,477 | 2,855 | 6,721 | 299 | 601 |
| Other | 102 | Q | 24 | 6 | 45 | 1,222 | Q | 276 | 323 | 488 |
| Vacant | 253 | 226 | Q | Q | Q | 1,908 | 1,540 | Q | Q | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 159 | 105 | 65 | 90 | 4,034 | 1,123 | 1,237 | 1,022 | 653 |
| 1920 to 1945 | 499 | 186 | 133 | 94 | 86 | 6,445 | 2,062 | 1,936 | 1,234 | 1,213 |
| 1946 to 1959 | 763 | 174 | 205 | 102 | 282 | 9,127 | 1,526 | 3,068 | 1,796 | 2,737 |
| 1960 to 1969 | 665 | 169 | 126 | 123 | 247 | 10,866 | 1,542 | 2,406 | 3,235 | 3,683 |
| 1970 to 1979 | 774 | 125 | 163 | 118 | 368 | 11,840 | 790 | 2,812 | 2,998 | 5,240 |
| 1980 to 1989 | 846 | 144 | 148 | 128 | 426 | 13,931 | 1,083 | 2,833 | 3,584 | 6,431 |
| 1990 to 1999 | 690 | 141 | 131 | 122 | 296 | 11,094 | 739 | 2,553 | 3,096 | 4,706 |
| Floors | | | | | | | | | | |
| One | 2,879 | 781 | 481 | 363 | 1,255 | 26,800 | 4,944 | 7,123 | 4,299 | 10,434 |
| Two | 1,168 | 195 | 361 | 218 | 394 | 16,985 | 1,794 | 5,309 | 3,984 | 5,898 |
| Three | 420 | 88 | 138 | 114 | 80 | 8,928 | 969 | 2,717 | 2,647 | 2,594 |
| Four to Nine | 178 | 33 | 31 | 51 | 62 | 10,180 | 971 | 1,480 | 3,729 | 3,999 |
| Ten or More | 11 | Q | 1 | 5 | 5 | 4,445 | Q | 216 | 2,306 | 1,737 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 213 | 226 | 80 | 168 | 12,360 | 2,049 | 3,914 | 3,196 | 3,202 |
| Midwest | 1,188 | 327 | 330 | 207 | 324 | 16,761 | 2,390 | 5,068 | 4,741 | 4,562 |
| South | 1,762 | 256 | 289 | 320 | 896 | 23,485 | 1,936 | 4,618 | 5,801 | 11,130 |
| West | 1,021 | 301 | 167 | 144 | 409 | 14,731 | 2,489 | 3,246 | 3,229 | 5,768 |
| Climate Zone: 45-Year Average | | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | | |
| More than 7,000 HDD | 525 | 159 | 169 | 101 | 96 | 5,890 | 1,086 | 2,218 | 1,442 | 1,144 |
| 5,500-7,000 HDD | 986 | 275 | 266 | 167 | 278 | 17,083 | 2,794 | 4,601 | 4,744 | 4,944 |
| 4,000-5,499 HDD | 1,085 | 319 | 263 | 153 | 350 | 16,243 | 2,245 | 4,435 | 4,416 | 5,148 |
| Fewer than 4,000 HDD | 1,134 | 221 | 141 | 173 | 599 | 16,333 | 1,798 | 3,068 | 3,826 | 7,641 |
| 2,000 CDD or More and -- | | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 123 | 173 | 157 | 474 | 11,788 | 941 | 2,524 | 2,538 | 5,785 |

Table B29. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1999

| | 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 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 862 | 416 | 314 | 784 | 14,321 | 5,617 | 3,288 | 1,843 | 3,573 |
| 5 to 9 | 807 | 126 | 270 | 89 | 322 | 6,325 | 1,034 | 2,477 | 734 | 2,080 |
| 10 to 19 | 683 | 47 | 170 | 152 | 314 | 8,028 | 618 | 2,799 | 1,977 | 2,634 |
| 20 to 49 | 487 | 54 | 99 | 106 | 228 | 10,814 | 884 | 3,152 | 2,714 | 4,065 |
| 50 to 99 | 174 | 5 | 36 | 50 | 83 | 8,898 | 379 | 2,173 | 2,510 | 3,837 |
| 100 to 249 | 90 | Q | 19 | 28 | 42 | 8,356 | Q | 1,910 | 2,639 | 3,580 |
| 250 or More | 39 | Q | 3 | 13 | 23 | 10,595 | Q | 1,048 | 4,550 | 4,893 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 539 | 88 | 66 | 285 | 6,596 | 3,483 | 815 | 596 | 1,702 |
| 40 to 48 | 1,156 | 188 | 309 | 170 | 489 | 13,105 | 2,064 | 4,305 | 2,311 | 4,426 |
| 49 to 60 | 986 | 136 | 292 | 184 | 375 | 14,200 | 974 | 4,595 | 3,580 | 5,050 |
| 61 to 84 | 664 | 102 | 198 | 124 | 242 | 12,458 | 757 | 2,797 | 3,634 | 5,270 |
| 85 to 167 | 474 | 38 | 71 | 127 | 238 | 9,116 | 588 | 2,561 | 2,645 | 3,322 |
| Open Continuously | 398 | 94 | 54 | 82 | 168 | 11,863 | 998 | 1,774 | 4,201 | 4,891 |
| Vacancy Status | | | | | | | | | | |
| Completely Vacant | 140 | 128 | Q | Q | Q | 953 | 797 | Q | Q | Q |
| Mostly Vacant | 113 | 98 | Q | Q | Q | 956 | 743 | Q | Q | Q |
| Partially Vacant | 697 | 198 | 134 | 158 | 206 | 15,520 | 1,723 | 2,849 | 5,123 | 5,825 |
| Not At All Vacant | 3,707 | 673 | 874 | 585 | 1,575 | 49,910 | 5,601 | 13,844 | 11,788 | 18,677 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 836 | 1,012 | 751 | 1,796 | 65,716 | 7,242 | 16,846 | 16,966 | 24,662 |
| Natural Gas | 2,670 | 335 | 679 | 544 | 1,112 | 45,525 | 3,378 | 12,068 | 12,694 | 17,386 |
| Fuel Oil | 434 | 132 | 149 | 63 | 90 | 13,285 | 1,100 | 3,354 | 4,780 | 4,051 |
| District Heat | 117 | 20 | 9 | 31 | 57 | 5,891 | 726 | 583 | 1,957 | 2,626 |
| District Chilled Water | 50 | N | Q | 8 | 40 | 2,750 | N | Q | 772 | 1,805 |
| Propane | 451 | 133 | 97 | 52 | 169 | 6,290 | 875 | 2,203 | 1,620 | 1,592 |
| Other | 153 | 46 | 34 | 19 | 54 | 2,322 | 253 | 574 | 756 | 739 |
| Cooling Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 3,450 | N | 1,005 | 720 | 1,725 | 55,545 | N | 16,536 | 16,117 | 22,893 |
| Natural Gas | 142 | N | 20 | 32 | 90 | 1,914 | N | 435 | 609 | 870 |
| District Chilled Water | 50 | N | Q | 8 | 40 | 2,750 | N | Q | 772 | 1,805 |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 616 | 965 | 725 | 1,709 | 61,602 | 5,242 | 16,193 | 16,637 | 23,531 |
| Buildings with Cooling | 3,560 | N | 1,012 | 751 | 1,796 | 58,474 | N | 16,846 | 16,966 | 24,662 |
| Buildings with Water Heating | 3,239 | 324 | 754 | 660 | 1,500 | 56,115 | 3,526 | 14,119 | 15,905 | 22,565 |
| Buildings with Cooking | 857 | 66 | 154 | 228 | 410 | 24,681 | 950 | 3,979 | 9,208 | 10,543 |
| Buildings with Manufacturing | 151 | 22 | 76 | Q | 42 | 3,126 | 265 | 1,765 | 517 | 580 |
| Buildings with Electricity Generation | 172 | 23 | 40 | 48 | 61 | 11,882 | 344 | 1,634 | 5,316 | 4,588 |
| Percent of Floorspace Heated | | | | | | | | | | |
| Not Heated | 641 | 482 | 47 | 26 | 87 | 5,736 | 3,622 | 653 | 329 | 1,131 |
| 1 to 50 | 576 | 115 | 400 | 24 | 36 | 7,593 | 974 | 5,549 | 628 | 441 |
| 51 to 99 | 627 | 102 | 113 | 364 | 48 | 10,745 | 806 | 2,146 | 6,831 | 963 |
| 100 | 2,813 | 398 | 452 | 337 | 1,625 | 43,264 | 3,462 | 8,498 | 9,178 | 22,126 |
| Percent Lit When Open | | | | | | | | | | |
| Zero | 34 | Q | Q | N | Q | 173 | Q | Q | N | Q |
| 1 to 50 | 835 | 177 | 397 | 76 | 186 | 9,187 | 1,808 | 4,383 | 1,280 | 1,716 |
| 51 to 99 | 1,228 | 132 | 240 | 414 | 442 | 20,665 | 1,317 | 4,310 | 9,032 | 6,005 |
| 100 | 2,096 | 348 | 365 | 258 | 1,125 | 34,233 | 3,024 | 8,000 | 6,617 | 16,593 |
| Building Never Open/ Electricity Not Used | 464 | 414 | Q | Q | Q | 3,080 | 2,608 | Q | Q | Q |

Table B29. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1999

| | 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 |
| Cooling Equipment (more than one may apply) | | | | | | | | | | |
| Residential-Type Central | | | | | | | | | | |
| Air Conditioners | 676 | N | 241 | 156 | 280 | 8,329 | N | 3,054 | 2,604 | 2,672 |
| Heat Pumps | 485 | N | 84 | 92 | 310 | 9,147 | N | 1,910 | 3,040 | 4,197 |
| Individual Air Conditioners | 799 | N | 414 | 161 | 224 | 14,276 | N | 6,855 | 3,647 | 3,774 |
| District Chilled Water | 50 | N | Q | 8 | 40 | 2,750 | N | Q | 772 | 1,805 |
| Central Chillers | 130 | N | Q | 45 | 66 | 12,909 | N | 903 | 6,368 | 5,639 |
| Packaged Air Conditioning | | | | | | | | | | |
| Units | 1,953 | N | 390 | 445 | 1,118 | 36,527 | N | 9,465 | 10,695 | 16,368 |
| Swamp Coolers | 136 | N | 39 | 32 | 65 | 2,219 | N | 880 | 540 | 800 |
| Other | 49 | N | Q | 19 | Q | 1,312 | N | 233 | 591 | 488 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | |
| Multipaned Windows | 2,130 | 295 | 524 | 392 | 919 | 38,193 | 2,717 | 9,607 | 11,157 | 14,713 |
| Tinted, Reflective, or Shading Glass | 1,283 | 103 | 273 | 266 | 641 | 29,915 | 1,195 | 6,143 | 9,377 | 13,201 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | |
| Variable Air-Volume System | 550 | Q | 91 | 116 | 328 | 19,387 | 378 | 2,436 | 7,098 | 9,475 |
| Economizer Cycle | 567 | N | 72 | 151 | 344 | 21,256 | N | 3,067 | 8,012 | 10,176 |
| HVAC Maintenance | 2,786 | 266 | 682 | 542 | 1,297 | 53,395 | 3,086 | 13,113 | 15,243 | 21,953 |
| Energy Management and Control System (EMCS) | 460 | 37 | 74 | 85 | 264 | 21,613 | 795 | 2,983 | 7,618 | 10,216 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | | |
| Heating | 2,862 | 414 | 738 | 494 | 1,216 | 39,969 | 3,329 | 11,278 | 10,170 | 15,191 |
| Cooling | 2,622 | N | 806 | 533 | 1,283 | 39,161 | N | 12,168 | 10,686 | 16,307 |
| Lighting | 3,675 | 565 | 927 | 627 | 1,556 | 51,083 | 5,079 | 14,601 | 12,311 | 19,093 |
| Office Equipment | 184 | 9 | 41 | 41 | 93 | 9,063 | 315 | 2,614 | 2,454 | 3,679 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B30. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|----------------------|---------------------|----------------------|-----------------|--|----------------------|---------------------|----------------------|-----------------|
| | All Buildings | Not Lit ^a | 1 to 50 Percent Lit | 51 to 99 Percent Lit | 100 Percent Lit | All Buildings | Not Lit ^a | 1 to 50 Percent Lit | 51 to 99 Percent Lit | 100 Percent Lit |
| All Buildings | 4,657 | 498 | 835 | 1,228 | 2,096 | 67,338 | 3,253 | 9,187 | 20,665 | 34,233 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 323 | 351 | 517 | 1,156 | 6,774 | 915 | 1,061 | 1,499 | 3,299 |
| 5,001 to 10,000 | 1,110 | 114 | 279 | 351 | 367 | 8,238 | 818 | 2,014 | 2,614 | 2,793 |
| 10,001 to 25,000 | 708 | 47 | 147 | 198 | 316 | 11,153 | 796 | 2,320 | 3,085 | 4,953 |
| 25,001 to 50,000 | 257 | 10 | 40 | 84 | 124 | 9,311 | 325 | 1,474 | 3,013 | 4,499 |
| 50,001 to 100,000 | 145 | Q | 13 | 52 | 77 | 10,112 | Q | 925 | 3,657 | 5,387 |
| 100,001 to 200,000 | 59 | Q | 4 | 16 | 39 | 8,271 | Q | 529 | 2,247 | 5,407 |
| 200,001 to 500,000 | 23 | Q | 2 | 8 | 13 | 6,851 | Q | 448 | 2,345 | 3,914 |
| Over 500,000 | 7 | Q | 0 | 3 | 4 | 6,628 | Q | 415 | 2,206 | 3,982 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | Q | 28 | 98 | 202 | 8,651 | Q | 503 | 3,492 | 4,644 |
| Food Sales | 174 | Q | Q | 46 | 95 | 994 | Q | Q | 160 | 621 |
| Food Service | 349 | Q | 68 | 109 | 171 | 1,851 | Q | 443 | 658 | 746 |
| Health Care | 127 | N | Q | 58 | 47 | 2,918 | N | Q | 1,475 | 1,383 |
| Inpatient | 11 | N | N | 6 | 5 | 1,865 | N | N | 1,022 | 843 |
| Outpatient | 116 | N | Q | 52 | 42 | 1,053 | N | Q | 453 | 540 |
| Lodging | 153 | Q | 29 | 50 | 70 | 4,521 | Q | 857 | 1,508 | 2,111 |
| Mercantile | 667 | Q | 101 | 206 | 352 | 10,398 | Q | 1,204 | 3,144 | 5,993 |
| Retail (Other Than Mall) | 534 | Q | 81 | 163 | 282 | 4,766 | Q | 638 | 1,459 | 2,616 |
| Enclosed and Strip Malls | 133 | Q | Q | 43 | 71 | 5,631 | Q | 567 | 1,685 | 3,376 |
| Office | 739 | Q | 93 | 264 | 381 | 12,044 | Q | 753 | 4,642 | 6,642 |
| Public Assembly | 305 | Q | 53 | 109 | 118 | 4,393 | Q | 616 | 1,862 | 1,811 |
| Public Order and Safety | 72 | Q | Q | 30 | 26 | 1,168 | Q | Q | 321 | 636 |
| Religious Worship | 307 | N | 78 | 89 | 141 | 3,405 | N | 1,056 | 993 | 1,357 |
| Service | 478 | Q | 104 | 111 | 250 | 3,388 | Q | 642 | 768 | 1,927 |
| Warehouse and Storage | 603 | 193 | 180 | 47 | 183 | 10,477 | 1,211 | 2,357 | 1,413 | 5,496 |
| Other | 102 | Q | Q | Q | 60 | 1,222 | Q | Q | 222 | 815 |
| Vacant | 253 | 222 | 31 | Q | Q | 1,908 | 1,553 | 297 | Q | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 77 | 122 | 121 | 99 | 4,034 | 486 | 1,130 | 1,290 | 1,129 |
| 1920 to 1945 | 499 | 65 | 152 | 107 | 175 | 6,445 | 590 | 1,452 | 1,879 | 2,523 |
| 1946 to 1959 | 763 | 88 | 159 | 202 | 315 | 9,127 | 621 | 1,720 | 2,856 | 3,930 |
| 1960 to 1969 | 665 | 73 | 91 | 218 | 283 | 10,866 | 388 | 1,162 | 3,765 | 5,552 |
| 1970 to 1979 | 774 | 51 | 113 | 237 | 374 | 11,840 | 284 | 1,448 | 3,832 | 6,276 |
| 1980 to 1989 | 846 | 76 | 108 | 199 | 464 | 13,931 | 659 | 1,318 | 3,801 | 8,153 |
| 1990 to 1999 | 690 | Q | 91 | 144 | 387 | 11,094 | Q | 957 | 3,242 | 6,670 |
| Floors | | | | | | | | | | |
| One | 2,879 | 367 | 391 | 614 | 1,507 | 26,800 | 1,938 | 3,498 | 6,059 | 15,305 |
| Two | 1,168 | 87 | 300 | 398 | 383 | 16,985 | 633 | 3,017 | 5,581 | 7,755 |
| Three | 420 | 27 | 111 | 136 | 147 | 8,928 | 309 | 1,589 | 3,339 | 3,691 |
| Four to Nine | 178 | Q | 32 | 75 | 53 | 10,180 | Q | 978 | 3,928 | 4,960 |
| Ten or More | 11 | Q | Q | 4 | 6 | 4,445 | Q | Q | 1,758 | 2,523 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 79 | 123 | 194 | 291 | 12,360 | 582 | 1,620 | 4,081 | 6,077 |
| Midwest | 1,188 | 156 | 273 | 337 | 422 | 16,761 | 793 | 2,486 | 5,814 | 7,668 |
| South | 1,762 | 173 | 275 | 453 | 862 | 23,485 | 1,263 | 3,013 | 6,392 | 12,817 |
| West | 1,021 | 90 | 164 | 245 | 522 | 14,731 | 614 | 2,068 | 4,378 | 7,671 |

Table B30. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|----------------------|---------------------|----------------------|-----------------|--|----------------------|---------------------|----------------------|-----------------|
| | All Buildings | Not Lit ^a | 1 to 50 Percent Lit | 51 to 99 Percent Lit | 100 Percent Lit | All Buildings | Not Lit ^a | 1 to 50 Percent Lit | 51 to 99 Percent Lit | 100 Percent Lit |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 467 | 558 | 487 | 865 | 14,321 | 3,096 | 3,999 | 2,822 | 4,404 |
| 5 to 9 | 807 | Q | 135 | 216 | 442 | 6,325 | Q | 1,649 | 1,733 | 2,869 |
| 10 to 19 | 683 | Q | 102 | 210 | 354 | 8,028 | Q | 1,679 | 2,336 | 3,930 |
| 20 to 49 | 487 | N | 32 | 190 | 264 | 10,814 | N | 996 | 3,974 | 5,844 |
| 50 to 99 | 174 | N | 7 | 78 | 90 | 8,898 | N | 405 | 3,562 | 4,931 |
| 100 to 249 | 90 | N | Q | 35 | 54 | 8,356 | N | Q | 2,485 | 5,526 |
| 250 or More | 39 | N | Q | 12 | 27 | 10,595 | N | Q | 3,752 | 6,729 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 411 | 146 | 135 | 286 | 6,596 | 2,741 | 920 | 1,003 | 1,932 |
| 40 to 48 | 1,156 | Q | 280 | 346 | 521 | 13,105 | Q | 2,851 | 4,172 | 6,037 |
| 49 to 60 | 986 | Q | 209 | 279 | 490 | 14,200 | Q | 2,080 | 4,882 | 7,208 |
| 61 to 84 | 664 | Q | 72 | 194 | 361 | 12,458 | Q | 1,300 | 4,041 | 6,970 |
| 85 to 167 | 474 | Q | 59 | 162 | 237 | 9,116 | Q | 918 | 2,603 | 5,384 |
| Open Continuously | 398 | Q | 69 | 112 | 201 | 11,863 | Q | 1,118 | 3,964 | 6,702 |
| Vacancy Status | | | | | | | | | | |
| Completely Vacant | 140 | 140 | N | N | N | 953 | 953 | N | N | N |
| Mostly Vacant | 113 | 82 | 31 | Q | Q | 956 | 601 | 297 | Q | Q |
| Partially Vacant | 697 | 142 | 158 | 225 | 172 | 15,520 | 904 | 2,180 | 5,417 | 7,018 |
| Not At All Vacant | 3,707 | 134 | 646 | 1,003 | 1,923 | 49,910 | 795 | 6,710 | 15,241 | 27,163 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 236 | 835 | 1,228 | 2,096 | 65,716 | 1,631 | 9,187 | 20,665 | 34,233 |
| Natural Gas | 2,670 | 70 | 500 | 884 | 1,216 | 45,525 | 648 | 5,855 | 15,751 | 23,271 |
| Fuel Oil | 434 | Q | 53 | 150 | 211 | 13,285 | Q | 1,150 | 4,771 | 7,271 |
| District Heat | 117 | N | 17 | 44 | 56 | 5,891 | N | 444 | 2,024 | 3,423 |
| District Chilled Water | 50 | N | Q | Q | 21 | 2,750 | N | Q | 880 | 1,655 |
| Propane | 451 | Q | 82 | 96 | 257 | 6,290 | Q | 1,019 | 1,523 | 3,713 |
| Other | 153 | Q | Q | 48 | 82 | 2,322 | Q | Q | 1,025 | 1,140 |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 118 | 741 | 1,162 | 1,995 | 61,602 | 752 | 8,175 | 19,950 | 32,725 |
| Buildings with Cooling | 3,560 | 58 | 658 | 1,096 | 1,748 | 58,474 | 538 | 7,379 | 19,348 | 31,209 |
| Buildings with Water Heating | 3,239 | 52 | 584 | 999 | 1,603 | 56,115 | 528 | 7,073 | 18,484 | 30,029 |
| Buildings with Cooking | 857 | Q | 140 | 283 | 434 | 24,681 | Q | 2,273 | 9,115 | 13,259 |
| Buildings with Manufacturing | 151 | Q | 24 | 33 | 88 | 3,126 | Q | 263 | 765 | 2,041 |
| Buildings with Electricity Generation | 172 | Q | Q | 70 | 82 | 11,882 | Q | 646 | 4,636 | 6,576 |
| Percent of Floorspace Heated | | | | | | | | | | |
| Not Heated | 641 | 380 | 94 | 66 | 101 | 5,736 | 2,500 | 1,012 | 715 | 1,508 |
| 1 to 50 | 576 | 21 | 277 | 71 | 206 | 7,593 | 232 | 2,994 | 1,313 | 3,054 |
| 51 to 99 | 627 | Q | 114 | 313 | 196 | 10,745 | Q | 1,427 | 5,374 | 3,925 |
| 100 | 2,813 | 93 | 349 | 778 | 1,593 | 43,264 | 500 | 3,754 | 13,264 | 25,747 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 1,097 | 440 | 177 | 132 | 348 | 8,864 | 2,715 | 1,808 | 1,317 | 3,024 |
| 1 to 50 | 1,012 | Q | 397 | 240 | 365 | 16,846 | Q | 4,383 | 4,310 | 8,000 |
| 51 to 99 | 751 | Q | 76 | 414 | 258 | 16,966 | Q | 1,280 | 9,032 | 6,617 |
| 100 | 1,796 | Q | 186 | 442 | 1,125 | 24,662 | Q | 1,716 | 6,005 | 16,593 |

Table B30. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|---|--------------------------------|----------------------|---------------------|----------------------|-----------------|--|----------------------|---------------------|----------------------|-----------------|
| | All Buildings | Not Lit ^a | 1 to 50 Percent Lit | 51 to 99 Percent Lit | 100 Percent Lit | All Buildings | Not Lit ^a | 1 to 50 Percent Lit | 51 to 99 Percent Lit | 100 Percent Lit |
| Percent Lit When Closed | | | | | | | | | | |
| Zero | 2,174 | 215 | 490 | 515 | 954 | 20,771 | 1,343 | 4,479 | 4,962 | 9,987 |
| 1 to 50 | 1,688 | Q | 258 | 553 | 866 | 30,950 | Q | 3,488 | 11,140 | 16,095 |
| 51 to 100 | 143 | Q | Q | 49 | 76 | 2,160 | Q | Q | 599 | 1,449 |
| Building Never Closed/ Electricity Not Used | | | | | | | | | | |
| | 652 | 270 | 69 | 112 | 201 | 13,457 | 1,673 | 1,118 | 3,964 | 6,702 |
| Lighting Equipment Types (more than one may apply) | | | | | | | | | | |
| Incandescent | 2,193 | Q | 476 | 780 | 928 | 38,156 | Q | 5,551 | 14,573 | 17,940 |
| Standard Fluorescent | 3,778 | Q | 708 | 1,117 | 1,941 | 60,344 | 213 | 8,127 | 19,430 | 32,575 |
| Compact Fluorescent | 607 | Q | 112 | 223 | 271 | 20,666 | Q | 1,878 | 8,141 | 10,615 |
| High Intensity Discharge | 430 | Q | 94 | 120 | 215 | 19,223 | Q | 1,442 | 6,629 | 11,148 |
| Halogen | 572 | Q | 110 | 226 | 236 | 17,926 | Q | 1,784 | 6,977 | 9,135 |
| Other | 58 | Q | Q | 26 | 30 | 1,004 | Q | Q | 503 | 418 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | |
| Multipaned Windows | 2,130 | 86 | 356 | 622 | 1,066 | 38,193 | 713 | 4,146 | 12,662 | 20,672 |
| Tinted, Reflective, or Shading Glass | 1,283 | 41 | 201 | 386 | 656 | 29,915 | 332 | 2,648 | 9,705 | 17,231 |
| Lighting Conservation Features (more than one may apply) | | | | | | | | | | |
| Specular Reflectors | 843 | Q | 118 | 259 | 466 | 19,994 | Q | 1,936 | 6,993 | 11,053 |
| Electronic Ballasts | 2,167 | Q | 439 | 593 | 1,135 | 42,035 | Q | 5,299 | 13,311 | 23,392 |
| Skylights or Atriums | 580 | 50 | 101 | 174 | 256 | 18,286 | 445 | 1,891 | 6,320 | 9,630 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | | |
| Heating | 2,862 | 81 | 519 | 878 | 1,384 | 39,969 | 493 | 5,573 | 13,152 | 20,750 |
| Cooling | 2,622 | 41 | 504 | 846 | 1,230 | 39,161 | 418 | 5,510 | 13,167 | 20,066 |
| Lighting | 3,675 | N | 742 | 1,077 | 1,855 | 51,083 | N | 7,736 | 16,402 | 26,945 |
| Office Equipment | 184 | Q | 7 | 79 | 98 | 9,063 | Q | 317 | 3,458 | 5,277 |

^a "Not Lit" includes buildings that were zero percent lit when open, buildings that were never open, and buildings that did not use any electricity.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B31. Heated, Cooled, and Lit Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------------------|
| | All Buildings | Heated Buildings | | Cooled Buildings | | Lit Buildings ^c | |
| | | Total Floorspace ^a | Heated Floorspace ^b | Total Floorspace ^a | Cooled Floorspace ^b | Total Floorspace ^a | Lit Floorspace ^b |
| All Buildings | 67,338 | 61,602 | 53,812 | 58,474 | 42,420 | 64,085 | 54,696 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 6,774 | 5,684 | 5,055 | 4,879 | 3,958 | 5,859 | 4,877 |
| 5,001 to 10,000 | 8,238 | 7,090 | 5,744 | 6,212 | 4,333 | 7,421 | 5,583 |
| 10,001 to 25,000 | 11,153 | 9,865 | 8,196 | 9,530 | 6,195 | 10,358 | 8,251 |
| 25,001 to 50,000 | 9,311 | 8,565 | 7,439 | 8,116 | 5,767 | 8,986 | 7,528 |
| 50,001 to 100,000 | 10,112 | 9,597 | 8,676 | 9,401 | 6,817 | 9,970 | 8,753 |
| 100,001 to 200,000 | 8,271 | 7,893 | 7,144 | 7,609 | 5,832 | 8,183 | 7,537 |
| 200,001 to 500,000 | 6,851 | 6,445 | 5,757 | 6,345 | 4,421 | 6,706 | 6,068 |
| Over 500,000 | 6,628 | 6,465 | 5,803 | 6,382 | 5,098 | 6,603 | 6,100 |
| Principal Building Activity | | | | | | | |
| Education | 8,651 | 8,612 | 8,294 | 7,973 | 5,341 | 8,639 | 7,918 |
| Food Sales | 994 | 880 | 760 | 978 | 789 | 992 | 852 |
| Food Service | 1,851 | 1,721 | 1,520 | 1,760 | 1,431 | 1,848 | 1,450 |
| Health Care | 2,918 | 2,918 | 2,722 | 2,815 | 2,530 | 2,918 | 2,702 |
| Inpatient | 1,865 | 1,865 | 1,740 | 1,762 | 1,580 | 1,865 | 1,757 |
| Outpatient | 1,053 | 1,053 | 983 | 1,053 | 949 | 1,053 | 945 |
| Lodging | 4,521 | 4,424 | 4,028 | 4,051 | 3,520 | 4,476 | 3,610 |
| Mercantile | 10,398 | 9,848 | 8,629 | 10,174 | 8,247 | 10,341 | 9,038 |
| Retail (Other Than Mall) | 4,766 | 4,615 | 3,806 | 4,573 | 3,125 | 4,713 | 3,973 |
| Enclosed and Strip Malls | 5,631 | 5,233 | 4,823 | 5,601 | 5,122 | 5,628 | 5,065 |
| Office | 12,044 | 11,810 | 11,001 | 11,782 | 10,437 | 12,037 | 10,855 |
| Public Assembly | 4,393 | 4,015 | 3,667 | 3,859 | 3,183 | 4,290 | 3,518 |
| Public Order and Safety | 1,168 | 1,021 | 952 | 760 | 573 | 1,006 | 914 |
| Religious Worship | 3,405 | 3,383 | 3,154 | 2,765 | 2,127 | 3,405 | 2,543 |
| Service | 3,388 | 3,027 | 2,594 | 2,481 | 1,239 | 3,336 | 2,785 |
| Warehouse and Storage | 10,477 | 8,104 | 4,930 | 7,621 | 1,982 | 9,266 | 7,329 |
| Other | 1,222 | 1,086 | 981 | 1,087 | 791 | 1,176 | 1,052 |
| Vacant | 1,908 | 754 | 579 | 368 | 228 | 355 | 129 |
| Year Constructed | | | | | | | |
| 1919 or Before | 4,034 | 3,593 | 3,045 | 2,911 | 1,762 | 3,548 | 2,571 |
| 1920 to 1945 | 6,445 | 5,559 | 4,714 | 4,383 | 2,622 | 5,855 | 4,543 |
| 1946 to 1959 | 9,127 | 8,402 | 7,157 | 7,601 | 4,872 | 8,506 | 6,918 |
| 1960 to 1969 | 10,866 | 9,966 | 8,851 | 9,325 | 6,913 | 10,479 | 9,050 |
| 1970 to 1979 | 11,840 | 10,916 | 9,441 | 11,050 | 8,364 | 11,556 | 10,057 |
| 1980 to 1989 | 13,931 | 12,566 | 11,254 | 12,849 | 10,085 | 13,272 | 11,871 |
| 1990 to 1999 | 11,094 | 10,600 | 9,349 | 10,355 | 7,802 | 10,869 | 9,686 |
| Floors | | | | | | | |
| One | 26,800 | 23,078 | 19,623 | 21,856 | 15,431 | 24,863 | 21,574 |
| Two | 16,985 | 15,933 | 13,569 | 15,192 | 10,486 | 16,352 | 13,418 |
| Three | 8,928 | 8,487 | 7,675 | 7,959 | 5,326 | 8,619 | 6,925 |
| Four to Nine | 10,180 | 9,753 | 9,001 | 9,208 | 7,416 | 9,866 | 8,671 |
| Ten or More | 4,445 | 4,351 | 3,943 | 4,259 | 3,761 | 4,386 | 4,108 |
| Census Region | | | | | | | |
| Northeast | 12,360 | 11,667 | 10,574 | 10,311 | 6,656 | 11,778 | 10,074 |
| Midwest | 16,761 | 15,916 | 14,321 | 14,371 | 9,447 | 15,968 | 13,380 |
| South | 23,485 | 20,598 | 17,868 | 21,549 | 17,183 | 22,222 | 19,254 |
| West | 14,731 | 13,421 | 11,049 | 12,243 | 9,133 | 14,117 | 11,989 |
| Climate Zone: 45-Year Average | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | |
| More than 7,000 HDD | 5,890 | 5,669 | 5,096 | 4,804 | 2,815 | 5,634 | 4,655 |
| 5,500-7,000 HDD | 17,083 | 16,206 | 14,883 | 14,289 | 9,655 | 16,398 | 13,935 |
| 4,000-5,499 HDD | 16,243 | 15,292 | 13,492 | 13,999 | 9,830 | 15,438 | 13,256 |
| Fewer than 4,000 HDD | 16,333 | 14,923 | 12,492 | 14,535 | 11,601 | 15,428 | 13,374 |
| 2,000 CDD or More and -- | | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 9,512 | 7,850 | 10,847 | 8,519 | 11,187 | 9,476 |

Table B31. Heated, Cooled, and Lit Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|---|--|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------------------|
| | All Buildings | Heated Buildings | | Cooled Buildings | | Lit Buildings ^c | |
| | | Total Floorspace ^a | Heated Floorspace ^b | Total Floorspace ^a | Cooled Floorspace ^b | Total Floorspace ^a | Lit Floorspace ^b |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 14,321 | 10,552 | 8,307 | 8,704 | 5,791 | 11,225 | 7,855 |
| 5 to 9 | 6,325 | 6,020 | 4,829 | 5,291 | 3,322 | 6,251 | 4,825 |
| 10 to 19 | 8,028 | 7,762 | 6,543 | 7,409 | 4,791 | 7,945 | 6,454 |
| 20 to 49 | 10,814 | 10,347 | 9,297 | 9,930 | 6,988 | 10,814 | 9,549 |
| 50 to 99 | 8,898 | 8,536 | 7,711 | 8,519 | 6,345 | 8,898 | 8,128 |
| 100 to 249 | 8,356 | 8,053 | 7,597 | 8,129 | 6,158 | 8,356 | 7,789 |
| 250 or More | 10,595 | 10,333 | 9,528 | 10,491 | 9,026 | 10,595 | 10,097 |
| Weekly Operating Hours | | | | | | | |
| 39 or Fewer | 6,596 | 4,217 | 3,660 | 3,113 | 2,406 | 3,855 | 3,096 |
| 40 to 48 | 13,105 | 12,090 | 9,874 | 11,041 | 7,203 | 13,061 | 10,325 |
| 49 to 60 | 14,200 | 13,677 | 11,855 | 13,225 | 9,068 | 14,170 | 12,070 |
| 61 to 84 | 12,458 | 11,787 | 10,474 | 11,701 | 8,870 | 12,312 | 10,831 |
| 85 to 167 | 9,116 | 8,399 | 7,480 | 8,528 | 6,079 | 8,905 | 7,971 |
| Open Continuously | 11,863 | 11,432 | 10,469 | 10,866 | 8,794 | 11,784 | 10,402 |
| Vacancy Status | | | | | | | |
| Completely Vacant | 953 | Q | Q | Q | Q | N | N |
| Mostly Vacant | 956 | 522 | 375 | 212 | 95 | 355 | 129 |
| Partially Vacant | 15,520 | 13,856 | 11,851 | 13,797 | 10,745 | 14,616 | 12,297 |
| Not At All Vacant | 49,910 | 46,992 | 41,382 | 44,309 | 31,446 | 49,114 | 42,270 |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 65,716 | 61,565 | 53,800 | 58,474 | 42,420 | 64,085 | 54,696 |
| Natural Gas | 45,525 | 44,385 | 39,168 | 42,147 | 30,553 | 44,877 | 38,486 |
| Fuel Oil | 13,285 | 13,074 | 11,792 | 12,185 | 8,821 | 13,192 | 11,786 |
| District Heat | 5,891 | 5,862 | 5,571 | 5,165 | 4,370 | 5,891 | 5,348 |
| District Chilled Water | 2,750 | 2,739 | 2,646 | 2,750 | 2,522 | 2,750 | 2,523 |
| Propane | 6,290 | 6,076 | 5,068 | 5,415 | 3,359 | 6,255 | 5,288 |
| Other | 2,322 | 2,276 | 1,996 | 2,069 | 1,438 | 2,292 | 2,015 |
| Space-Heating Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 32,291 | 32,291 | 27,585 | 30,961 | 23,462 | 31,953 | 27,516 |
| Natural Gas | 37,902 | 37,893 | 33,395 | 35,080 | 24,720 | 37,436 | 32,042 |
| Fuel Oil | 5,611 | 5,611 | 5,042 | 4,638 | 2,618 | 5,518 | 4,746 |
| District Heat | 5,534 | 5,534 | 5,330 | 4,844 | 4,119 | 5,534 | 5,074 |
| Propane | 2,728 | 2,728 | 2,284 | 2,191 | 1,542 | 2,692 | 2,193 |
| Other | 945 | 945 | 798 | 779 | 516 | 936 | 767 |
| Primary Space-Heating Energy Source | | | | | | | |
| Electricity | 17,627 | 17,627 | 14,742 | 17,160 | 13,699 | 17,444 | 14,990 |
| Natural Gas | 32,729 | 32,729 | 28,846 | 30,003 | 20,630 | 32,288 | 27,652 |
| Fuel Oil | 3,719 | 3,719 | 3,278 | 2,912 | 1,514 | 3,635 | 3,043 |
| District Heat | 5,077 | 5,077 | 4,887 | 4,392 | 3,733 | 5,077 | 4,661 |
| Propane | 2,107 | 2,107 | 1,772 | 1,631 | 1,183 | 2,072 | 1,698 |
| Other | 343 | 343 | 286 | 263 | 146 | 335 | 252 |
| Cooling Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 55,545 | 53,459 | 46,741 | 55,545 | 39,881 | 55,007 | 47,392 |
| Natural Gas | 1,914 | 1,898 | 1,719 | 1,914 | 1,485 | 1,914 | 1,644 |
| District Chilled Water | 2,750 | 2,739 | 2,646 | 2,750 | 2,522 | 2,750 | 2,523 |

Table B31. Heated, Cooled, and Lit Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------------------|
| | All Buildings | Heated Buildings | | Cooled Buildings | | Lit Buildings ^c | |
| | | Total Floorspace ^a | Heated Floorspace ^b | Total Floorspace ^a | Cooled Floorspace ^b | Total Floorspace ^a | Lit Floorspace ^b |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 61,602 | 61,602 | 53,812 | 56,361 | 40,905 | 60,850 | 52,296 |
| Buildings with Cooling | 58,474 | 56,361 | 49,482 | 58,474 | 42,420 | 57,936 | 50,055 |
| Buildings with Water Heating | 56,115 | 54,204 | 48,070 | 52,589 | 38,844 | 55,586 | 48,125 |
| Buildings with Cooking | 24,681 | 23,813 | 22,090 | 23,730 | 19,070 | 24,647 | 21,920 |
| Buildings with Manufacturing | 3,126 | 3,031 | 2,250 | 2,861 | 1,338 | 3,069 | 2,750 |
| Buildings with Electricity Generation | 11,882 | 11,643 | 10,702 | 11,538 | 9,415 | 11,857 | 10,840 |
| Percent of Floorspace Heated | | | | | | | |
| Not Heated | 5,736 | N | N | 2,113 | 1,514 | 3,235 | 2,400 |
| 1 to 50 | 7,593 | 7,593 | 2,009 | 6,619 | 2,220 | 7,361 | 5,091 |
| 51 to 99 | 10,745 | 10,745 | 8,538 | 9,939 | 7,067 | 10,725 | 8,796 |
| 100 | 43,264 | 43,264 | 43,264 | 39,802 | 31,618 | 42,764 | 38,409 |
| Percent of Floorspace Cooled | | | | | | | |
| Not Cooled | 8,864 | 5,242 | 4,330 | N | N | 6,149 | 4,641 |
| 1 to 50 | 16,846 | 16,193 | 11,547 | 16,846 | 3,975 | 16,693 | 13,033 |
| 51 to 99 | 16,966 | 16,637 | 14,935 | 16,966 | 13,783 | 16,930 | 14,678 |
| 100 | 24,662 | 23,531 | 23,000 | 24,662 | 24,662 | 24,314 | 22,344 |
| Percent Lit When Open | | | | | | | |
| Zero | 173 | Q | Q | Q | Q | N | N |
| 1 to 50 | 9,187 | 8,175 | 5,728 | 7,379 | 3,853 | 9,187 | 3,267 |
| 51 to 99 | 20,665 | 19,950 | 17,807 | 19,348 | 14,402 | 20,665 | 17,195 |
| 100 | 34,233 | 32,725 | 29,701 | 31,209 | 23,763 | 34,233 | 34,233 |
| Building Never Open/ Electricity Not Used | 3,080 | 679 | 515 | 472 | 369 | N | N |
| Percent Lit When Closed | | | | | | | |
| Zero | 20,771 | 18,394 | 15,115 | 16,581 | 10,754 | 19,428 | 15,591 |
| 1 to 50 | 30,950 | 29,724 | 26,410 | 28,964 | 21,215 | 30,723 | 26,740 |
| 51 to 100 | 2,160 | 2,015 | 1,806 | 2,064 | 1,657 | 2,151 | 1,963 |
| Building Never Closed/ Electricity Not Used | 13,457 | 11,469 | 10,481 | 10,866 | 8,794 | 11,784 | 10,402 |
| Heating Equipment (more than one may apply) | | | | | | | |
| Heat Pumps | 8,923 | 8,923 | 7,819 | 8,766 | 7,104 | 8,870 | 7,803 |
| Furnaces | 14,449 | 14,449 | 11,825 | 12,819 | 7,866 | 14,304 | 11,385 |
| Individual Space Heaters | 17,349 | 17,349 | 14,759 | 15,708 | 10,273 | 17,129 | 14,722 |
| District Heat | 5,534 | 5,534 | 5,330 | 4,844 | 4,119 | 5,534 | 5,074 |
| Boilers | 19,522 | 19,522 | 18,039 | 17,947 | 12,574 | 19,431 | 17,008 |
| Packaged Heating Units | 25,743 | 25,743 | 22,846 | 25,134 | 19,505 | 25,512 | 22,714 |
| Other | 4,073 | 4,073 | 3,469 | 3,592 | 2,702 | 3,951 | 3,453 |
| Cooling Equipment (more than one may apply) | | | | | | | |
| Residential-Type Central | | | | | | | |
| Air Conditioners | 8,329 | 8,010 | 6,610 | 8,329 | 5,473 | 8,265 | 6,712 |
| Heat Pumps | 9,147 | 9,052 | 7,986 | 9,147 | 7,321 | 9,120 | 8,032 |
| Individual Air Conditioners | 14,276 | 13,754 | 11,898 | 14,276 | 8,142 | 14,055 | 11,626 |
| District Chilled Water | 2,750 | 2,739 | 2,646 | 2,750 | 2,522 | 2,750 | 2,523 |
| Central Chillers | 12,909 | 12,560 | 11,667 | 12,909 | 11,235 | 12,857 | 11,898 |
| Packaged Air Conditioning | | | | | | | |
| Units | 36,527 | 35,247 | 31,221 | 36,527 | 27,481 | 36,161 | 31,889 |
| Swamp Coolers | 2,219 | 2,190 | 1,877 | 2,219 | 1,495 | 2,218 | 1,955 |
| Other | 1,312 | 1,257 | 1,086 | 1,312 | 1,061 | 1,308 | 1,191 |

Table B31. Heated, Cooled, and Lit Buildings, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|---|--|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------------------|
| | All Buildings | Heated Buildings | | Cooled Buildings | | Lit Buildings ^c | |
| | | Total Floorspace ^a | Heated Floorspace ^b | Total Floorspace ^a | Cooled Floorspace ^b | Total Floorspace ^a | Lit Floorspace ^b |
| Lighting Equipment Types (more than one may apply) | | | | | | | |
| Incandescent | 38,156 | 36,640 | 32,450 | 34,584 | 26,287 | 38,064 | 32,075 |
| Standard Fluorescent | 60,344 | 57,516 | 50,532 | 55,007 | 39,913 | 60,131 | 51,708 |
| Compact Fluorescent | 20,666 | 20,127 | 18,151 | 19,829 | 15,888 | 20,634 | 18,239 |
| High Intensity Discharge | 19,223 | 18,821 | 16,715 | 18,076 | 11,899 | 19,219 | 17,379 |
| Halogen | 17,926 | 17,373 | 15,378 | 17,093 | 13,013 | 17,896 | 15,671 |
| Other | 1,004 | 973 | 858 | 953 | 772 | 989 | 865 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | |
| Multipaned Windows | 38,193 | 36,962 | 33,278 | 35,476 | 26,242 | 37,480 | 32,817 |
| Tinted, Reflective, or Shading Glass | 29,915 | 28,777 | 25,703 | 28,721 | 22,459 | 29,583 | 26,485 |
| HVAC Conservation Features (more than one may apply) | | | | | | | |
| Variable Air-Volume System | 19,387 | 18,942 | 17,271 | 19,009 | 15,881 | 19,331 | 17,477 |
| Economizer Cycle | 21,256 | 21,107 | 19,797 | 21,256 | 17,589 | 21,187 | 19,542 |
| HVAC Maintenance | 53,395 | 51,983 | 46,550 | 50,309 | 37,457 | 53,044 | 46,432 |
| Energy Management and Control System (EMCS) | 21,613 | 21,252 | 19,858 | 20,817 | 17,232 | 21,556 | 19,942 |
| Lighting Conservation Features (more than one may apply) | | | | | | | |
| Specular Reflectors | 19,994 | 19,222 | 17,451 | 19,014 | 14,249 | 19,982 | 17,737 |
| Electronic Ballasts | 42,035 | 40,417 | 35,695 | 39,347 | 29,192 | 42,003 | 36,594 |
| Skylights or Atriums | 18,286 | 17,062 | 14,656 | 16,646 | 11,530 | 17,841 | 15,652 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | |
| Heating | 39,969 | 39,969 | 34,786 | 36,639 | 26,172 | 39,476 | 33,799 |
| Cooling | 39,161 | 37,743 | 32,819 | 39,161 | 27,834 | 38,743 | 33,060 |
| Lighting | 51,083 | 48,300 | 41,790 | 46,004 | 32,484 | 51,083 | 43,394 |
| Office Equipment | 9,063 | 8,802 | 8,247 | 8,748 | 6,215 | 9,052 | 8,424 |

^a "Total Floorspace" refers to all floorspace in heated, cooled, or lit buildings, including the floorspace that was not heated, cooled, or lit.

^b "Heated Floorspace," "Cooled Floorspace," and "Lit Floorspace" refer only to the portion of floorspace in these buildings that was heated, cooled, or lit.

^c Data in "Lit Buildings" are for only floorspace lit when the building was open.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B32. Heating Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|--|--------------------------------|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | Other |
| All Buildings | 4,657 | 4,016 | 492 | 1,460 | 894 | 96 | 581 | 1,347 | 185 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,982 | 240 | 783 | 397 | Q | 146 | 589 | 98 |
| 5,001 to 10,000 | 1,110 | 946 | 100 | 387 | 183 | Q | 144 | 302 | Q |
| 10,001 to 25,000 | 708 | 629 | 81 | 206 | 191 | 19 | 128 | 253 | 22 |
| 25,001 to 50,000 | 257 | 237 | 37 | 47 | 62 | 17 | 72 | 101 | 14 |
| 50,001 to 100,000 | 145 | 137 | 20 | 25 | 35 | 13 | 52 | 62 | 8 |
| 100,001 to 200,000 | 59 | 57 | 8 | 9 | 18 | 7 | 24 | 27 | 3 |
| 200,001 to 500,000 | 23 | 22 | 3 | 3 | 6 | 3 | 11 | 10 | 2 |
| Over 500,000 | 7 | 7 | 1 | 1 | 3 | 2 | 3 | 3 | 1 |
| Principal Building Activity | | | | | | | | | |
| Education | 327 | 326 | 47 | 48 | 46 | 30 | 106 | 139 | Q |
| Food Sales | 174 | 149 | Q | 47 | Q | Q | Q | 65 | Q |
| Food Service | 349 | 321 | Q | 95 | 48 | Q | Q | 156 | Q |
| Health Care | 127 | 127 | 26 | 53 | 8 | 3 | 16 | 39 | Q |
| Inpatient | 11 | 11 | 1 | Q | 2 | 3 | 8 | 3 | Q |
| Outpatient | 116 | 116 | Q | 52 | Q | Q | 8 | 36 | Q |
| Lodging | 153 | 150 | 28 | 26 | 53 | 13 | 39 | 34 | Q |
| Mercantile | 667 | 626 | 53 | 221 | 116 | Q | 65 | 255 | 36 |
| Retail (Other Than Mall) | 534 | 502 | 28 | 194 | 107 | Q | 60 | 173 | Q |
| Enclosed and Strip Malls | 133 | 123 | 25 | 27 | 9 | N | 5 | 81 | Q |
| Office | 739 | 728 | 139 | 236 | 135 | 19 | 105 | 275 | 13 |
| Public Assembly | 305 | 274 | 30 | 99 | 68 | 15 | 49 | 70 | Q |
| Public Order and Safety | 72 | 61 | Q | Q | 22 | 3 | 30 | 11 | Q |
| Religious Worship | 307 | 306 | 17 | 184 | 101 | Q | 51 | 78 | Q |
| Service | 478 | 421 | 37 | 189 | 122 | Q | 33 | 112 | 29 |
| Warehouse and Storage | 603 | 357 | 45 | 176 | 104 | Q | 41 | 76 | Q |
| Other | 102 | 84 | Q | 40 | 29 | Q | 6 | 24 | Q |
| Vacant | 253 | 84 | Q | 37 | Q | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 419 | 350 | 6 | 163 | 79 | 19 | 100 | 40 | Q |
| 1920 to 1945 | 499 | 430 | 23 | 206 | 107 | 9 | 83 | 110 | Q |
| 1946 to 1959 | 763 | 666 | 95 | 251 | 180 | 21 | 121 | 157 | 33 |
| 1960 to 1969 | 665 | 557 | 39 | 191 | 110 | 16 | 98 | 213 | 19 |
| 1970 to 1979 | 774 | 691 | 102 | 205 | 172 | Q | 63 | 304 | 35 |
| 1980 to 1989 | 846 | 713 | 124 | 237 | 127 | 11 | 65 | 289 | 59 |
| 1990 to 1999 | 690 | 608 | 103 | 208 | 119 | 4 | 52 | 235 | Q |
| Census Region | | | | | | | | | |
| Northeast | 686 | 601 | 24 | 222 | 119 | 31 | 189 | 135 | 22 |
| Midwest | 1,188 | 1,049 | 28 | 632 | 205 | 22 | 175 | 201 | 52 |
| South | 1,762 | 1,503 | 338 | 369 | 370 | 27 | 123 | 645 | 62 |
| West | 1,021 | 863 | 102 | 237 | 200 | 17 | 93 | 366 | 49 |
| Climate Zone: 45-Year Average | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | |
| More than 7,000 HDD | 525 | 475 | 4 | 246 | 117 | 3 | 131 | 65 | 26 |
| 5,500-7,000 HDD | 986 | 870 | 27 | 457 | 170 | 22 | 182 | 206 | 51 |
| 4,000-5,499 HDD | 1,085 | 950 | 153 | 395 | 211 | 42 | 161 | 189 | 44 |
| Fewer than 4,000 HDD | 1,134 | 997 | 183 | 198 | 238 | 8 | 71 | 509 | 35 |
| 2,000 CDD or More and -- | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 724 | 124 | 164 | 157 | 21 | 36 | 378 | 29 |

Table B32. Heating Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | Other |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 2,376 | 1,835 | 162 | 742 | 419 | 30 | 191 | 504 | 105 |
| 5 to 9 | 807 | 773 | 73 | 370 | 188 | 14 | 108 | 204 | 25 |
| 10 to 19 | 683 | 667 | 131 | 164 | 125 | 10 | 109 | 290 | 12 |
| 20 to 49 | 487 | 456 | 81 | 141 | 86 | 12 | 83 | 210 | 18 |
| 50 to 99 | 174 | 166 | 28 | 24 | 46 | 15 | 41 | 84 | 14 |
| 100 to 249 | 90 | 81 | 11 | 17 | 20 | 8 | 31 | 40 | 5 |
| 250 or More | 39 | 38 | 6 | 3 | 10 | 7 | 18 | 15 | 5 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 978 | 638 | 51 | 304 | 163 | Q | 76 | 156 | Q |
| 40 to 48 | 1,156 | 1,068 | 171 | 420 | 256 | 35 | 122 | 329 | 30 |
| 49 to 60 | 986 | 943 | 126 | 336 | 213 | 17 | 146 | 314 | 54 |
| 61 to 84 | 664 | 598 | 46 | 234 | 96 | 16 | 104 | 212 | 16 |
| 85 to 167 | 474 | 407 | 64 | 104 | 77 | 7 | 42 | 197 | 27 |
| Open Continuously | 398 | 361 | 34 | 62 | 89 | 20 | 90 | 139 | 31 |
| Multibuilding Facility Activity | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | |
| Facility | 3,295 | 2,876 | 314 | 1,176 | 654 | 18 | 383 | 933 | 135 |
| College or University | 70 | 69 | Q | Q | Q | 35 | 15 | 6 | Q |
| Primary or Secondary School | 224 | 211 | 35 | 23 | 31 | Q | 48 | 110 | Q |
| Office Complex | 134 | 121 | 33 | 31 | 26 | Q | Q | 38 | 3 |
| Retail Complex | 181 | 156 | 20 | 45 | 20 | Q | Q | 82 | Q |
| Religious Campus or Complex | 186 | 184 | Q | 76 | 54 | Q | 27 | 64 | Q |
| Health Care Complex | 72 | 65 | 21 | Q | Q | 7 | 12 | 26 | Q |
| Government Complex | 61 | 50 | Q | Q | 15 | Q | 8 | 7 | Q |
| Other | 434 | 284 | 32 | 97 | 74 | 5 | 51 | 81 | 18 |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 4,395 | 4,008 | 492 | 1,460 | 886 | 96 | 581 | 1,347 | 185 |
| Natural Gas | 2,670 | 2,588 | 194 | 1,104 | 581 | 41 | 416 | 939 | 71 |
| Fuel Oil | 434 | 432 | 38 | 172 | 115 | 7 | 170 | 40 | 39 |
| District Heat | 117 | 116 | Q | Q | 12 | 96 | Q | Q | 1 |
| District Chilled Water | 50 | 49 | 3 | Q | 9 | 39 | 3 | Q | 1 |
| Propane | 451 | 434 | 36 | 161 | 117 | Q | 87 | 120 | 28 |
| Other | 153 | 149 | Q | 46 | 39 | Q | 29 | 31 | 53 |
| Space-Heating Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 1,880 | 1,880 | 475 | 512 | 584 | 26 | 193 | 744 | 110 |
| Natural Gas | 2,380 | 2,380 | 144 | 1,077 | 543 | Q | 381 | 865 | 67 |
| Fuel Oil | 377 | 377 | Q | 166 | 100 | Q | 152 | 17 | 34 |
| District Heat | 96 | 96 | 4 | Q | 7 | 96 | Q | Q | 1 |
| Propane | 307 | 307 | 12 | 128 | 104 | Q | 41 | 81 | 19 |
| Other | 94 | 94 | Q | Q | 27 | Q | 12 | Q | 52 |
| Primary Space-Heating Energy Source | | | | | | | | | |
| Electricity | 1,128 | 1,128 | 373 | 192 | 213 | Q | 40 | 494 | 62 |
| Natural Gas | 2,189 | 2,189 | 97 | 1,017 | 498 | 2 | 364 | 758 | 60 |
| Fuel Oil | 302 | 302 | Q | 119 | 79 | Q | 136 | Q | Q |
| District Heat | 77 | 77 | 3 | Q | 5 | 77 | Q | 4 | Q |
| Propane | 282 | 282 | Q | 115 | 91 | N | Q | 74 | Q |
| Other | 38 | 38 | Q | Q | Q | N | Q | Q | Q |

Table B32. Heating Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | Other |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 4,016 | 492 | 1,460 | 894 | 96 | 581 | 1,347 | 185 |
| Buildings with Cooling | 3,560 | 3,400 | 478 | 1,193 | 670 | 77 | 474 | 1,304 | 143 |
| Buildings with Water Heating | 3,239 | 3,087 | 383 | 1,094 | 637 | 80 | 517 | 1,118 | 126 |
| Buildings with Cooking | 857 | 798 | 101 | 214 | 172 | 21 | 182 | 340 | 33 |
| Buildings with Manufacturing | 151 | 143 | Q | 57 | 56 | Q | 8 | 46 | Q |
| Buildings with Electricity Generation | 172 | 169 | 30 | 27 | 45 | 9 | 77 | 57 | 9 |
| Percent of Floorspace Heated | | | | | | | | | |
| Not Heated | 641 | N | N | N | N | N | N | N | N |
| 1 to 50 | 576 | 576 | 53 | 236 | 137 | Q | 54 | 129 | 53 |
| 51 to 99 | 627 | 627 | 70 | 271 | 150 | 16 | 66 | 232 | 13 |
| 100 | 2,813 | 2,813 | 369 | 953 | 607 | 80 | 460 | 986 | 118 |
| Heating Equipment (more than one may apply) | | | | | | | | | |
| Heat Pumps | 492 | 492 | 492 | 76 | 78 | 4 | 38 | 78 | 19 |
| Furnaces | 1,460 | 1,460 | 76 | 1,460 | 271 | Q | 52 | 108 | 8 |
| Individual Space Heaters | 894 | 894 | 78 | 271 | 894 | 7 | 115 | 207 | 28 |
| District Heat | 96 | 96 | 4 | Q | 7 | 96 | Q | Q | 1 |
| Boilers | 581 | 581 | 38 | 52 | 115 | Q | 581 | 56 | 8 |
| Packaged Heating Units | 1,347 | 1,347 | 78 | 108 | 207 | Q | 56 | 1,347 | 15 |
| Other | 185 | 185 | 19 | 8 | 28 | 1 | 8 | 15 | 185 |
| Cooling Equipment (more than one may apply) | | | | | | | | | |
| Residential-Type Central | | | | | | | | | |
| Air Conditioners | 676 | 645 | 46 | 508 | 104 | 3 | 58 | 75 | 38 |
| Heat Pumps | 485 | 481 | 447 | 76 | 89 | 4 | 39 | 84 | 22 |
| Individual Air Conditioners | 799 | 771 | 84 | 262 | 294 | 16 | 211 | 167 | 47 |
| District Chilled Water | 50 | 49 | 3 | Q | 9 | 39 | 3 | Q | 1 |
| Central Chillers | 130 | 126 | 12 | 12 | 26 | 15 | 96 | 26 | 8 |
| Packaged Air Conditioning | | | | | | | | | |
| Units | 1,953 | 1,859 | 130 | 470 | 327 | 35 | 223 | 1,219 | 49 |
| Swamp Coolers | 136 | 126 | 9 | 72 | 47 | Q | 18 | 48 | Q |
| Other | 49 | 48 | Q | 12 | 4 | Q | 14 | 4 | Q |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | |
| Heating | 984 | 984 | 130 | 347 | 231 | Q | 97 | 381 | 27 |
| Cooling | 1,085 | 1,014 | 172 | 374 | 215 | 10 | 128 | 397 | 18 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | |
| Multipaned Windows | 2,130 | 2,047 | 295 | 830 | 404 | 45 | 354 | 602 | 95 |
| Tinted, Reflective, or Shading Glass | 1,283 | 1,225 | 167 | 364 | 227 | 35 | 176 | 576 | 54 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | |
| Variable Air-Volume System | 550 | 516 | 77 | 129 | 76 | 24 | 125 | 221 | 19 |
| Economizer Cycle | 567 | 559 | 58 | 88 | 79 | 32 | 112 | 334 | 27 |
| HVAC Maintenance | 2,786 | 2,704 | 370 | 954 | 483 | 93 | 497 | 1,065 | 88 |
| Energy Management and Control System (EMCS) | 460 | 452 | 48 | 64 | 68 | 48 | 116 | 241 | 25 |

Table B32. Heating Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | |
|---|--------------------------------|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | Other |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | |
| Heating | 2,862 | 2,862 | 367 | 1,104 | 622 | 70 | 410 | 954 | 96 |
| Cooling | 2,622 | 2,519 | 338 | 930 | 502 | 58 | 363 | 969 | 79 |
| Lighting | 3,675 | 3,448 | 435 | 1,333 | 748 | 72 | 478 | 1,154 | 133 |
| Office Equipment | 184 | 181 | 25 | 40 | 38 | 9 | 69 | 73 | 7 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B33. Heating Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|--|--|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | Other |
| All Buildings | 67,338 | 61,602 | 8,923 | 14,449 | 17,349 | 5,534 | 19,522 | 25,743 | 4,073 |
| Building Floorspace (Square Feet) | | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 5,684 | 679 | 2,271 | 1,183 | Q | 463 | 1,779 | 250 |
| 5,001 to 10,000 | 8,238 | 7,090 | 745 | 2,848 | 1,350 | Q | 1,040 | 2,301 | Q |
| 10,001 to 25,000 | 11,153 | 9,865 | 1,288 | 3,047 | 3,021 | 307 | 2,047 | 3,994 | 401 |
| 25,001 to 50,000 | 9,311 | 8,565 | 1,376 | 1,674 | 2,218 | 617 | 2,591 | 3,695 | 510 |
| 50,001 to 100,000 | 10,112 | 9,597 | 1,493 | 1,718 | 2,492 | 905 | 3,698 | 4,262 | 511 |
| 100,001 to 200,000 | 8,271 | 7,893 | 1,095 | 1,283 | 2,467 | 883 | 3,334 | 3,811 | 450 |
| 200,001 to 500,000 | 6,851 | 6,445 | 996 | 807 | 1,974 | 963 | 3,268 | 2,943 | 782 |
| Over 500,000 | 6,628 | 6,465 | 1,250 | 802 | 2,643 | 1,698 | 3,081 | 2,959 | 903 |
| Principal Building Activity | | | | | | | | | |
| Education | 8,651 | 8,612 | 1,184 | 1,040 | 1,869 | 1,086 | 5,048 | 2,710 | Q |
| Food Sales | 994 | 880 | Q | 263 | Q | Q | Q | 402 | Q |
| Food Service | 1,851 | 1,721 | Q | 583 | 261 | Q | Q | 895 | Q |
| Health Care | 2,918 | 2,918 | 648 | 368 | 676 | 736 | 1,494 | 1,159 | 335 |
| Inpatient | 1,865 | 1,865 | 486 | Q | 560 | 641 | 1,235 | 761 | Q |
| Outpatient | 1,053 | 1,053 | Q | 264 | Q | Q | 259 | 398 | Q |
| Lodging | 4,521 | 4,424 | 1,068 | 649 | 1,659 | 527 | 1,814 | 1,688 | Q |
| Mercantile | 10,398 | 9,848 | 1,340 | 2,234 | 2,448 | Q | 1,291 | 6,664 | 701 |
| Retail (Other Than Mall) | 4,766 | 4,615 | 218 | 1,620 | 1,199 | Q | 536 | 2,171 | Q |
| Enclosed and Strip Malls | 5,631 | 5,233 | 1,122 | 614 | 1,249 | N | 755 | 4,493 | Q |
| Office | 12,044 | 11,810 | 1,949 | 1,807 | 2,631 | 1,487 | 4,211 | 4,304 | 1,244 |
| Public Assembly | 4,393 | 4,015 | 582 | 787 | 1,163 | 841 | 1,409 | 1,368 | Q |
| Public Order and Safety | 1,168 | 1,021 | Q | Q | 232 | 297 | 541 | 251 | Q |
| Religious Worship | 3,405 | 3,383 | 327 | 1,701 | 1,021 | Q | 1,010 | 1,047 | Q |
| Service | 3,388 | 3,027 | 381 | 1,129 | 1,165 | Q | 532 | 1,184 | 224 |
| Warehouse and Storage | 10,477 | 8,104 | 888 | 3,270 | 3,560 | Q | 1,369 | 3,542 | 428 |
| Other | 1,222 | 1,086 | Q | 309 | 257 | Q | 247 | 383 | Q |
| Vacant | 1,908 | 754 | Q | 218 | Q | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | |
| 1919 or Before | 4,034 | 3,593 | 251 | 1,214 | 1,042 | 480 | 1,397 | 428 | Q |
| 1920 to 1945 | 6,445 | 5,559 | 449 | 1,552 | 1,772 | 764 | 2,264 | 1,476 | Q |
| 1946 to 1959 | 9,127 | 8,402 | 1,064 | 2,082 | 2,551 | 1,065 | 2,762 | 2,917 | 563 |
| 1960 to 1969 | 10,866 | 9,966 | 1,129 | 2,053 | 2,496 | 1,351 | 4,231 | 3,961 | 560 |
| 1970 to 1979 | 11,840 | 10,916 | 1,651 | 2,235 | 3,345 | 769 | 3,275 | 4,899 | 684 |
| 1980 to 1989 | 13,931 | 12,566 | 2,583 | 2,927 | 3,428 | 606 | 3,114 | 6,379 | 1,012 |
| 1990 to 1999 | 11,094 | 10,600 | 1,796 | 2,387 | 2,715 | 499 | 2,479 | 5,684 | 786 |
| Census Region | | | | | | | | | |
| Northeast | 12,360 | 11,667 | 1,193 | 2,257 | 3,555 | 1,876 | 5,469 | 4,033 | 769 |
| Midwest | 16,761 | 15,916 | 1,015 | 5,767 | 4,667 | 1,514 | 5,961 | 5,081 | 1,113 |
| South | 23,485 | 20,598 | 4,580 | 3,949 | 5,471 | 1,022 | 4,209 | 10,455 | 1,391 |
| West | 14,731 | 13,421 | 2,135 | 2,476 | 3,657 | 1,121 | 3,883 | 6,175 | 800 |
| Climate Zone: 45-Year Average | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | |
| More than 7,000 HDD | 5,890 | 5,669 | 283 | 1,736 | 1,754 | 250 | 2,815 | 1,436 | 362 |
| 5,500-7,000 HDD | 17,083 | 16,206 | 1,135 | 4,996 | 4,866 | 1,736 | 6,733 | 5,623 | 1,222 |
| 4,000-5,499 HDD | 16,243 | 15,292 | 2,827 | 4,004 | 4,750 | 2,405 | 5,072 | 4,851 | 1,026 |
| Fewer than 4,000 HDD | 16,333 | 14,923 | 3,015 | 2,197 | 3,915 | 677 | 3,480 | 8,600 | 786 |
| 2,000 CDD or More and -- | | | | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 9,512 | 1,663 | 1,516 | 2,064 | 466 | 1,422 | 5,233 | 676 |

Table B33. Heating Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | Other |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | |
| Workers (main shift) | | | | | | | | | |
| Fewer than 5 | 14,321 | 10,552 | 707 | 3,874 | 2,913 | 289 | 1,840 | 3,005 | 673 |
| 5 to 9 | 6,325 | 6,020 | 655 | 2,510 | 1,680 | 292 | 1,285 | 1,788 | 178 |
| 10 to 19 | 8,028 | 7,762 | 1,340 | 1,953 | 1,973 | 372 | 1,771 | 3,002 | 219 |
| 20 to 49 | 10,814 | 10,347 | 1,761 | 2,631 | 2,538 | 534 | 2,739 | 4,935 | 451 |
| 50 to 99 | 8,898 | 8,536 | 1,401 | 1,221 | 2,531 | 645 | 3,234 | 4,416 | 300 |
| 100 to 249 | 8,356 | 8,053 | 1,105 | 1,164 | 2,376 | 1,031 | 3,706 | 4,172 | 608 |
| 250 or More | 10,595 | 10,333 | 1,954 | 1,095 | 3,339 | 2,371 | 4,948 | 4,426 | 1,644 |
| Weekly Operating Hours | | | | | | | | | |
| 39 or Fewer | 6,596 | 4,217 | 313 | 1,765 | 1,051 | Q | 1,140 | 1,200 | Q |
| 40 to 48 | 13,105 | 12,090 | 1,863 | 3,664 | 3,321 | 730 | 3,170 | 4,093 | 472 |
| 49 to 60 | 14,200 | 13,677 | 1,963 | 3,580 | 3,657 | 910 | 4,337 | 5,101 | 1,089 |
| 61 to 84 | 12,458 | 11,787 | 1,501 | 2,183 | 3,086 | 911 | 3,542 | 5,835 | 915 |
| 85 to 167 | 9,116 | 8,399 | 1,179 | 1,697 | 2,558 | 830 | 2,316 | 4,436 | 394 |
| Open Continuously | 11,863 | 11,432 | 2,105 | 1,560 | 3,677 | 2,114 | 5,018 | 5,077 | 1,025 |
| Multibuilding Facility Activity | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | |
| Facility | 41,289 | 38,071 | 5,574 | 10,209 | 11,297 | 1,366 | 11,936 | 15,861 | 2,689 |
| College or University | 2,605 | 2,585 | Q | Q | 319 | 1,757 | 566 | 266 | Q |
| Primary or Secondary School | 3,388 | 3,268 | 428 | 494 | 747 | Q | 1,724 | 1,515 | Q |
| Office Complex | 3,353 | 3,250 | 331 | 345 | 483 | Q | 1,392 | 1,333 | 309 |
| Retail Complex | 3,555 | 3,205 | 472 | 650 | 857 | Q | Q | 2,339 | Q |
| Religious Campus or Complex | 1,907 | 1,885 | Q | 832 | 584 | Q | 462 | 708 | Q |
| Health Care Complex | 2,339 | 2,302 | 604 | Q | 530 | 818 | 1,056 | 922 | Q |
| Government Complex | 1,513 | 1,348 | Q | Q | 437 | 740 | 429 | 200 | Q |
| Other | 7,389 | 5,690 | 862 | 1,655 | 2,096 | 491 | 1,677 | 2,599 | 346 |
| Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 65,716 | 61,565 | 8,923 | 14,449 | 17,321 | 5,534 | 19,514 | 25,743 | 4,073 |
| Natural Gas | 45,525 | 44,385 | 5,627 | 11,960 | 13,561 | 2,431 | 16,588 | 20,043 | 2,680 |
| Fuel Oil | 13,285 | 13,074 | 2,263 | 2,090 | 4,351 | 1,787 | 7,485 | 4,237 | 1,463 |
| District Heat | 5,891 | 5,862 | 811 | Q | 1,314 | 5,534 | 301 | 847 | 285 |
| District Chilled Water | 2,750 | 2,739 | 376 | Q | 567 | 2,279 | 326 | 497 | 159 |
| Propane | 6,290 | 6,076 | 838 | 1,801 | 1,915 | Q | 2,153 | 2,562 | 451 |
| Other | 2,322 | 2,276 | 316 | 526 | 1,032 | Q | 1,044 | 1,018 | 483 |
| Space-Heating Energy Sources (more than one may apply) | | | | | | | | | |
| Electricity | 32,291 | 32,291 | 8,667 | 6,822 | 12,350 | 1,609 | 8,410 | 16,861 | 2,972 |
| Natural Gas | 37,902 | 37,893 | 4,466 | 11,524 | 11,488 | 678 | 15,131 | 17,324 | 1,982 |
| Fuel Oil | 5,611 | 5,611 | 532 | 1,295 | 1,444 | Q | 4,176 | 1,040 | 341 |
| District Heat | 5,534 | 5,534 | 730 | Q | 1,210 | 5,534 | Q | 767 | 249 |
| Propane | 2,728 | 2,728 | 204 | 1,075 | 1,051 | Q | 672 | 937 | 272 |
| Other | 945 | 945 | Q | Q | 534 | Q | 420 | Q | 315 |
| Primary Space-Heating Energy Source | | | | | | | | | |
| Electricity | 17,627 | 17,627 | 5,009 | 2,281 | 4,788 | Q | 2,171 | 10,090 | 1,807 |
| Natural Gas | 32,729 | 32,729 | 3,076 | 10,311 | 9,945 | 211 | 13,918 | 13,958 | 1,634 |
| Fuel Oil | 3,719 | 3,719 | Q | 821 | 683 | Q | 2,717 | 333 | Q |
| District Heat | 5,077 | 5,077 | 588 | Q | 1,042 | 5,077 | Q | 602 | Q |
| Propane | 2,107 | 2,107 | Q | 864 | 725 | N | Q | 623 | Q |
| Other | 343 | 343 | Q | Q | Q | N | Q | Q | Q |

Table B33. Heating Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | Other |
| Energy End Uses (more than one may apply) | | | | | | | | | |
| Buildings with Space Heating | 61,602 | 61,602 | 8,923 | 14,449 | 17,349 | 5,534 | 19,522 | 25,743 | 4,073 |
| Buildings with Cooling | 58,474 | 56,361 | 8,766 | 12,819 | 15,708 | 4,844 | 17,947 | 25,134 | 3,592 |
| Buildings with Water Heating | 56,115 | 54,204 | 8,106 | 12,265 | 15,163 | 4,943 | 18,615 | 23,491 | 3,669 |
| Buildings with Cooking | 24,681 | 23,813 | 4,313 | 3,576 | 7,145 | 2,337 | 11,111 | 11,346 | 1,705 |
| Buildings with Manufacturing | 3,126 | 3,031 | 348 | 1,162 | 1,355 | Q | 730 | 1,349 | Q |
| Buildings with Electricity Generation | 11,882 | 11,643 | 2,396 | 1,437 | 4,275 | 1,986 | 5,704 | 5,016 | 1,444 |
| Percent of Floorspace Heated | | | | | | | | | |
| Not Heated | 5,736 | N | N | N | N | N | N | N | N |
| 1 to 50 | 7,593 | 7,593 | 1,098 | 2,718 | 2,432 | Q | 1,203 | 2,702 | 607 |
| 51 to 99 | 10,745 | 10,745 | 1,797 | 3,042 | 3,332 | 886 | 2,977 | 4,661 | 774 |
| 100 | 43,264 | 43,264 | 6,028 | 8,689 | 11,585 | 4,575 | 15,343 | 18,380 | 2,692 |
| Heating Equipment (more than one may apply) | | | | | | | | | |
| Heat Pumps | 8,923 | 8,923 | 8,923 | 1,585 | 2,644 | 730 | 2,634 | 3,828 | 444 |
| Furnaces | 14,449 | 14,449 | 1,585 | 14,449 | 4,460 | Q | 2,256 | 3,698 | 418 |
| Individual Space Heaters | 17,349 | 17,349 | 2,644 | 4,460 | 17,349 | 1,210 | 5,356 | 7,654 | 1,096 |
| District Heat | 5,534 | 5,534 | 730 | Q | 1,210 | 5,534 | Q | 767 | 249 |
| Boilers | 19,522 | 19,522 | 2,634 | 2,256 | 5,356 | Q | 19,522 | 5,277 | 795 |
| Packaged Heating Units | 25,743 | 25,743 | 3,828 | 3,698 | 7,654 | 767 | 5,277 | 25,743 | 1,193 |
| Other | 4,073 | 4,073 | 444 | 418 | 1,096 | 249 | 795 | 1,193 | 4,073 |
| Cooling Equipment (more than one may apply) | | | | | | | | | |
| Residential-Type Central | | | | | | | | | |
| Air Conditioners | 8,329 | 8,010 | 1,362 | 4,975 | 2,810 | 303 | 2,282 | 2,617 | 646 |
| Heat Pumps | 9,147 | 9,052 | 8,243 | 1,601 | 2,750 | 701 | 2,749 | 3,799 | 528 |
| Individual Air Conditioners | 14,276 | 13,754 | 2,378 | 3,655 | 6,603 | 1,140 | 6,406 | 5,127 | 887 |
| District Chilled Water | 2,750 | 2,739 | 376 | Q | 567 | 2,279 | 326 | 497 | 159 |
| Central Chillers | 12,909 | 12,560 | 2,109 | 1,259 | 3,863 | 2,069 | 8,549 | 4,425 | 1,679 |
| Packaged Air Conditioning | | | | | | | | | |
| Units | 36,527 | 35,247 | 4,709 | 7,240 | 10,774 | 1,884 | 10,047 | 23,495 | 2,138 |
| Swamp Coolers | 2,219 | 2,190 | 483 | 756 | 835 | Q | 823 | 1,253 | Q |
| Other | 1,312 | 1,257 | 285 | 225 | 285 | Q | 637 | 385 | 468 |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | |
| Heating | 13,220 | 13,220 | 2,392 | 3,550 | 3,797 | Q | 2,857 | 6,833 | 623 |
| Cooling | 17,390 | 16,386 | 2,859 | 4,009 | 4,781 | 826 | 5,240 | 7,755 | 716 |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | |
| Multipaned Windows | 38,193 | 36,962 | 6,068 | 8,881 | 10,930 | 3,233 | 13,442 | 15,101 | 2,752 |
| Tinted, Reflective, or Shading Glass | 29,915 | 28,777 | 4,617 | 5,194 | 7,488 | 2,904 | 9,604 | 14,049 | 2,303 |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | |
| Variable Air-Volume System | 19,387 | 18,942 | 2,773 | 2,473 | 5,022 | 2,780 | 8,355 | 8,506 | 1,734 |
| Economizer Cycle | 21,256 | 21,107 | 3,302 | 2,986 | 6,237 | 3,275 | 9,342 | 10,599 | 1,847 |
| HVAC Maintenance | 53,395 | 51,983 | 8,055 | 11,148 | 13,715 | 5,296 | 18,379 | 23,294 | 3,356 |
| Energy Management and Control System (EMCS) | 21,613 | 21,252 | 3,198 | 2,290 | 5,762 | 3,865 | 9,514 | 9,418 | 2,235 |

Table B33. Heating Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | |
|---|--|----------------------|---|----------|--------------------------|---------------|---------|------------------------|-------|
| | All Buildings | All Heated Buildings | Heating Equipment (more than one may apply) | | | | | | Other |
| | | | Heat Pumps | Furnaces | Individual Space Heaters | District Heat | Boilers | Packaged Heating Units | |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | |
| Heating | 39,969 | 39,969 | 5,710 | 10,360 | 10,497 | 2,906 | 12,118 | 16,602 | 2,364 |
| Cooling | 39,161 | 37,743 | 5,413 | 9,450 | 10,062 | 2,538 | 11,606 | 16,697 | 2,173 |
| Lighting | 51,083 | 48,300 | 6,650 | 12,514 | 13,135 | 3,377 | 14,096 | 19,932 | 2,883 |
| Office Equipment | 9,063 | 8,802 | 1,242 | 1,469 | 2,181 | 725 | 4,222 | 3,587 | 412 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B34. Cooling Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | | |
|--|--------------------------------|----------------------|---|------------|-----------------------------|------------------------|------------------|---------------------------------|---------------|-------|
| | All Buildings | All Cooled Buildings | Cooling Equipment (more than one may apply) | | | | | | | |
| | | | Residential-Type Central Air Conditioners | Heat Pumps | Individual Air Conditioners | District Chilled Water | Central Chillers | Packaged Air Conditioning Units | Swamp Coolers | Other |
| All Buildings | 4,657 | 3,560 | 676 | 485 | 799 | 50 | 130 | 1,953 | 136 | 49 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,680 | 319 | 240 | 356 | Q | Q | 857 | 79 | Q |
| 5,001 to 10,000 | 1,110 | 828 | 211 | 95 | 184 | Q | Q | 423 | 25 | Q |
| 10,001 to 25,000 | 708 | 611 | 96 | 80 | 149 | Q | 17 | 387 | 13 | Q |
| 25,001 to 50,000 | 257 | 223 | 24 | 35 | 60 | 7 | 25 | 141 | 9 | 4 |
| 50,001 to 100,000 | 145 | 134 | 17 | 22 | 29 | 7 | 28 | 89 | 7 | Q |
| 100,001 to 200,000 | 59 | 55 | 7 | 9 | 13 | 5 | 16 | 37 | 2 | Q |
| 200,001 to 500,000 | 23 | 21 | 2 | 4 | 7 | 2 | 9 | 14 | Q | Q |
| Over 500,000 | 7 | 7 | 1 | 1 | 1 | 1 | 4 | 4 | Q | Q |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 274 | 23 | 39 | 79 | Q | 31 | 164 | Q | Q |
| Food Sales | 174 | 166 | Q | Q | Q | N | Q | 99 | Q | Q |
| Food Service | 349 | 324 | 66 | Q | 71 | Q | Q | 218 | Q | Q |
| Health Care | 127 | 127 | Q | 29 | 15 | 2 | 9 | 77 | Q | Q |
| Inpatient | 11 | 11 | 1 | 1 | Q | 2 | 6 | 4 | Q | Q |
| Outpatient | 116 | 116 | Q | Q | Q | Q | 4 | 73 | Q | Q |
| Lodging | 153 | 126 | 17 | 26 | 64 | Q | 10 | 47 | Q | Q |
| Mercantile | 667 | 632 | 87 | 54 | 164 | Q | 4 | 370 | 26 | Q |
| Retail (Other Than Mall) | 534 | 499 | 77 | 30 | 154 | Q | Q | 264 | Q | Q |
| Enclosed and Strip Malls | 133 | 132 | Q | 24 | Q | Q | 2 | 107 | Q | Q |
| Office | 739 | 716 | 137 | 141 | 90 | 6 | 31 | 385 | 5 | 14 |
| Public Assembly | 305 | 232 | 61 | 30 | 39 | Q | 16 | 126 | Q | Q |
| Public Order and Safety | 72 | 32 | Q | Q | 11 | Q | 6 | 14 | Q | Q |
| Religious Worship | 307 | 232 | 50 | 19 | 69 | Q | Q | 123 | Q | Q |
| Service | 478 | 289 | 70 | 33 | 70 | Q | Q | 139 | Q | Q |
| Warehouse and Storage | 603 | 308 | 82 | 42 | 85 | Q | Q | 140 | Q | Q |
| Other | 102 | 76 | Q | Q | Q | Q | Q | 28 | Q | Q |
| Vacant | 253 | 27 | Q | Q | Q | N | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 260 | 78 | Q | 101 | Q | Q | 92 | Q | Q |
| 1920 to 1945 | 499 | 313 | 75 | 24 | 124 | 2 | 8 | 143 | Q | Q |
| 1946 to 1959 | 763 | 589 | 129 | 89 | 178 | 5 | 13 | 275 | 29 | Q |
| 1960 to 1969 | 665 | 496 | 39 | 39 | 102 | 7 | 32 | 332 | 25 | Q |
| 1970 to 1979 | 774 | 649 | 105 | 106 | 112 | Q | 17 | 398 | 33 | Q |
| 1980 to 1989 | 846 | 702 | 143 | 121 | 96 | Q | 22 | 421 | 19 | Q |
| 1990 to 1999 | 690 | 549 | 107 | 91 | 86 | 4 | 29 | 291 | 6 | Q |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 473 | 72 | 19 | 172 | 2 | 17 | 265 | Q | Q |
| Midwest | 1,188 | 861 | 285 | 27 | 214 | 14 | 25 | 403 | Q | Q |
| South | 1,762 | 1,506 | 258 | 329 | 312 | Q | 57 | 841 | Q | Q |
| West | 1,021 | 720 | 62 | 110 | 100 | 13 | 31 | 443 | 109 | Q |
| Climate Zone: 45-Year Average | | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | | |
| More than 7,000 HDD | 525 | 366 | 82 | 4 | 137 | Q | 10 | 170 | Q | Q |
| 5,500-7,000 HDD | 986 | 711 | 175 | 18 | 177 | 6 | 22 | 391 | Q | Q |
| 4,000-5,499 HDD | 1,085 | 766 | 178 | 173 | 207 | Q | 38 | 306 | Q | Q |
| Fewer than 4,000 HDD | 1,134 | 913 | 97 | 174 | 141 | 7 | 27 | 596 | 50 | Q |
| 2,000 CDD or More and -- | | | | | | | | | | |
| Fewer than 4,000 HDD | 926 | 803 | 144 | 116 | 137 | 23 | 32 | 490 | Q | Q |

Table B34. Cooling Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | | |
|---|--------------------------------|----------------------|---|------------|-----------------------------|------------------------|------------------|---------------------------------|---------------|-------|
| | All Buildings | All Cooled Buildings | Cooling Equipment (more than one may apply) | | | | | | | |
| | | | Residential-Type Central Air Conditioners | Heat Pumps | Individual Air Conditioners | District Chilled Water | Central Chillers | Packaged Air Conditioning Units | Swamp Coolers | Other |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 1,513 | 339 | 169 | 350 | Q | 28 | 724 | 69 | Q |
| 5 to 9 | 807 | 681 | 133 | 68 | 163 | Q | 9 | 354 | 26 | Q |
| 10 to 19 | 683 | 636 | 101 | 122 | 146 | Q | 11 | 383 | Q | Q |
| 20 to 49 | 487 | 433 | 69 | 79 | 61 | 3 | 22 | 295 | 13 | 7 |
| 50 to 99 | 174 | 169 | 18 | 29 | 44 | 10 | 18 | 118 | 5 | Q |
| 100 to 249 | 90 | 88 | 14 | 10 | 27 | 4 | 21 | 54 | 4 | 3 |
| 250 or More | 39 | 39 | 3 | 8 | 7 | 5 | 20 | 24 | 1 | 1 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 439 | 112 | 42 | 109 | Q | 4 | 229 | Q | Q |
| 40 to 48 | 1,156 | 968 | 205 | 180 | 214 | Q | 27 | 482 | 22 | 6 |
| 49 to 60 | 986 | 850 | 114 | 113 | 185 | 13 | 42 | 458 | 25 | Q |
| 61 to 84 | 664 | 563 | 137 | 49 | 125 | 6 | 18 | 317 | 42 | Q |
| 85 to 167 | 474 | 436 | 72 | 67 | 78 | 4 | 9 | 292 | 15 | Q |
| Open Continuously | 398 | 304 | 36 | 34 | 88 | 11 | 30 | 174 | 8 | 4 |
| Multibuilding Facility Activity | | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | | |
| Facility | 3,295 | 2,567 | 510 | 310 | 574 | 3 | 60 | 1,435 | 95 | 24 |
| College or University | 70 | 46 | Q | Q | 9 | 13 | 9 | 12 | Q | Q |
| Primary or Secondary School | 224 | 171 | 4 | 23 | 50 | Q | 17 | 123 | Q | Q |
| Office Complex | 134 | 115 | Q | 33 | 8 | Q | Q | 43 | Q | Q |
| Retail Complex | 181 | 163 | Q | 27 | 34 | Q | Q | 117 | Q | Q |
| Religious Campus or Complex | 186 | 146 | Q | Q | 38 | Q | Q | 91 | Q | Q |
| Health Care Complex | 72 | 61 | Q | 21 | 5 | 3 | 6 | 35 | Q | Q |
| Government Complex | 61 | 46 | Q | Q | Q | Q | 6 | 6 | Q | Q |
| Other | 434 | 244 | 85 | 31 | 65 | Q | 10 | 91 | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 3,560 | 676 | 485 | 799 | 50 | 130 | 1,953 | 136 | 49 |
| Natural Gas | 2,670 | 2,335 | 503 | 195 | 507 | 21 | 103 | 1,356 | 121 | 20 |
| Fuel Oil | 434 | 302 | 37 | 49 | 163 | 3 | 29 | 102 | 4 | 3 |
| District Heat | 117 | 97 | 4 | Q | 21 | 43 | 16 | 43 | Q | Q |
| District Chilled Water | 50 | 50 | Q | 4 | Q | 50 | 1 | Q | Q | Q |
| Propane | 451 | 318 | 64 | 34 | 107 | Q | 6 | 165 | 12 | Q |
| Other | 153 | 107 | 45 | Q | 31 | Q | 3 | 51 | Q | Q |
| Cooling Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 3,450 | 3,450 | 676 | 485 | 799 | 24 | 127 | 1,870 | 135 | 48 |
| Natural Gas | 142 | 142 | Q | 17 | 18 | Q | 2 | 111 | Q | Q |
| District Chilled Water | 50 | 50 | Q | 4 | Q | 50 | 1 | Q | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,400 | 645 | 481 | 771 | 49 | 126 | 1,859 | 126 | 48 |
| Buildings with Cooling | 3,560 | 3,560 | 676 | 485 | 799 | 50 | 130 | 1,953 | 136 | 49 |
| Buildings with Water Heating | 3,239 | 2,915 | 532 | 401 | 650 | 37 | 124 | 1,646 | 120 | 34 |
| Buildings with Cooking | 857 | 792 | 114 | 97 | 216 | 6 | 49 | 519 | 44 | 5 |
| Buildings with Manufacturing | 151 | 129 | 28 | Q | 54 | Q | 3 | 57 | Q | Q |
| Buildings with Electricity Generation | 172 | 149 | 26 | 30 | 30 | 5 | 42 | 88 | 4 | 4 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 1,097 | N | N | N | N | N | N | N | N | N |
| 1 to 50 | 1,012 | 1,012 | 241 | 84 | 414 | Q | Q | 390 | 39 | Q |
| 51 to 99 | 751 | 751 | 156 | 92 | 161 | 8 | 45 | 445 | 32 | 19 |
| 100 | 1,796 | 1,796 | 280 | 310 | 224 | 40 | 66 | 1,118 | 65 | Q |

Table B34. Cooling Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | | | | | |
|---|--------------------------------|----------------------|---|------------|-----------------------------|------------------------|------------------|---------------------------------|-----|---------------|-------|
| | All Buildings | All Cooled Buildings | Cooling Equipment (more than one may apply) | | | | | | | Swamp Coolers | Other |
| | | | Residential-Type Central Air Conditioners | Heat Pumps | Individual Air Conditioners | District Chilled Water | Central Chillers | Packaged Air Conditioning Units | | | |
| Heating Equipment (more than one may apply) | | | | | | | | | | | |
| Heat Pumps | 492 | 478 | 46 | 447 | 84 | 3 | 12 | 130 | 9 | Q | |
| Furnaces | 1,460 | 1,193 | 508 | 76 | 262 | Q | 12 | 470 | 72 | 12 | |
| Individual Space Heaters | 894 | 670 | 104 | 89 | 294 | 9 | 26 | 327 | 47 | 4 | |
| District Heat | 96 | 77 | 3 | 4 | 16 | 39 | 15 | 35 | Q | Q | |
| Boilers | 581 | 474 | 58 | 39 | 211 | 3 | 96 | 223 | 18 | 14 | |
| Packaged Heating Units | 1,347 | 1,304 | 75 | 84 | 167 | Q | 26 | 1,219 | 48 | 4 | |
| Other | 185 | 143 | 38 | 22 | 47 | 1 | 8 | 49 | Q | Q | |
| Cooling Equipment (more than one may apply) | | | | | | | | | | | |
| Residential-Type Central Air Conditioners | 676 | 676 | 676 | 45 | 91 | Q | 8 | 85 | Q | Q | |
| Heat Pumps | 485 | 485 | 45 | 485 | 94 | 4 | 14 | 112 | 6 | Q | |
| Individual Air Conditioners | 799 | 799 | 91 | 94 | 799 | Q | 18 | 186 | 13 | Q | |
| District Chilled Water | 50 | 50 | Q | 4 | Q | 50 | 1 | Q | Q | Q | |
| Central Chillers | 130 | 130 | 8 | 14 | 18 | 1 | 130 | 39 | 2 | Q | |
| Packaged Air Conditioning Units | 1,953 | 1,953 | 85 | 112 | 186 | Q | 39 | 1,953 | 56 | 12 | |
| Swamp Coolers | 136 | 136 | Q | 6 | 13 | Q | 2 | 56 | 136 | Q | |
| Other | 49 | 49 | Q | Q | Q | Q | Q | 12 | Q | 49 | |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | | | |
| Heating | 984 | 862 | 182 | 127 | 205 | Q | 17 | 490 | 39 | Q | |
| Cooling | 1,085 | 1,085 | 208 | 173 | 308 | Q | 27 | 575 | 58 | Q | |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | | |
| Multipaned Windows | 2,130 | 1,835 | 386 | 291 | 425 | 24 | 86 | 931 | 38 | 35 | |
| Tinted, Reflective, or Shading Glass | 1,283 | 1,180 | 208 | 169 | 158 | 26 | 74 | 770 | 61 | 11 | |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | | |
| Variable Air-Volume System | 550 | 535 | 111 | 57 | 49 | 19 | 70 | 352 | 9 | 8 | |
| Economizer Cycle | 567 | 567 | 49 | 52 | 51 | 21 | 63 | 444 | 33 | 15 | |
| HVAC Maintenance | 2,786 | 2,520 | 451 | 372 | 445 | 48 | 126 | 1,524 | 101 | 30 | |
| Energy Management and Control System (EMCS) | 460 | 423 | 37 | 45 | 71 | 26 | 60 | 288 | 15 | 11 | |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | | | |
| Heating | 2,862 | 2,449 | 489 | 357 | 506 | 37 | 85 | 1,346 | 95 | 31 | |
| Cooling | 2,622 | 2,622 | 512 | 347 | 562 | 36 | 88 | 1,469 | 93 | 33 | |
| Lighting | 3,675 | 3,110 | 605 | 435 | 694 | 39 | 93 | 1,692 | 119 | 45 | |
| Office Equipment | 184 | 175 | 12 | 27 | 40 | 4 | 26 | 125 | 4 | Q | |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B35. Cooling Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | | |
|--|--|----------------------|---|------------|-----------------------------|------------------------|------------------|---------------------------------|---------------|-------|
| | All Buildings | All Cooled Buildings | Cooling Equipment (more than one may apply) | | | | | | | |
| | | | Residential-Type Central Air Conditioners | Heat Pumps | Individual Air Conditioners | District Chilled Water | Central Chillers | Packaged Air Conditioning Units | Swamp Coolers | Other |
| All Buildings | 67,338 | 58,474 | 8,329 | 9,147 | 14,276 | 2,750 | 12,909 | 36,527 | 2,219 | 1,312 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 6,774 | 4,879 | 890 | 700 | 962 | Q | Q | 2,613 | 253 | Q |
| 5,001 to 10,000 | 8,238 | 6,212 | 1,606 | 707 | 1,396 | Q | Q | 3,197 | 181 | Q |
| 10,001 to 25,000 | 11,153 | 9,530 | 1,420 | 1,270 | 2,482 | Q | 307 | 6,031 | 207 | Q |
| 25,001 to 50,000 | 9,311 | 8,116 | 860 | 1,304 | 2,140 | 294 | 919 | 5,120 | 325 | 153 |
| 50,001 to 100,000 | 10,112 | 9,401 | 1,221 | 1,593 | 2,057 | 525 | 1,989 | 6,164 | 477 | Q |
| 100,001 to 200,000 | 8,271 | 7,609 | 905 | 1,229 | 1,834 | 630 | 2,331 | 5,217 | 307 | Q |
| 200,001 to 500,000 | 6,851 | 6,345 | 715 | 1,126 | 2,032 | 470 | 2,963 | 4,106 | Q | Q |
| Over 500,000 | 6,628 | 6,382 | 712 | 1,219 | 1,373 | 630 | 4,223 | 4,080 | Q | Q |
| Principal Building Activity | | | | | | | | | | |
| Education | 8,651 | 7,973 | 625 | 1,220 | 2,974 | 676 | 2,108 | 4,331 | 508 | Q |
| Food Sales | 994 | 978 | Q | Q | Q | N | Q | 610 | Q | Q |
| Food Service | 1,851 | 1,760 | 357 | Q | 394 | Q | Q | 1,323 | Q | Q |
| Health Care | 2,918 | 2,815 | 572 | 684 | 696 | 433 | 1,609 | 1,783 | Q | Q |
| Inpatient | 1,865 | 1,762 | 455 | 503 | 602 | 356 | 1,413 | 1,109 | Q | Q |
| Outpatient | 1,053 | 1,053 | Q | Q | Q | Q | 196 | 673 | Q | Q |
| Lodging | 4,521 | 4,051 | 736 | 1,014 | 2,075 | 219 | 980 | 1,956 | Q | Q |
| Mercantile | 10,398 | 10,174 | 1,043 | 1,296 | 1,441 | Q | 1,278 | 8,019 | 387 | Q |
| Retail (Other Than Mall) | 4,766 | 4,573 | 551 | 225 | 1,111 | Q | Q | 3,003 | Q | Q |
| Enclosed and Strip Malls | 5,631 | 5,601 | 492 | 1,070 | 330 | Q | 1,115 | 5,017 | Q | Q |
| Office | 12,044 | 11,782 | 1,089 | 2,158 | 1,500 | 678 | 4,559 | 6,838 | 169 | 565 |
| Public Assembly | 4,393 | 3,859 | 579 | 533 | 742 | 436 | 920 | 2,152 | Q | Q |
| Public Order and Safety | 1,168 | 760 | Q | Q | 284 | Q | 302 | 383 | Q | Q |
| Religious Worship | 3,405 | 2,765 | 694 | 403 | 781 | Q | Q | 1,630 | Q | Q |
| Service | 3,388 | 2,481 | 491 | 399 | 716 | Q | Q | 1,575 | Q | Q |
| Warehouse and Storage | 10,477 | 7,621 | 1,658 | 858 | 2,155 | Q | 349 | 5,198 | 179 | Q |
| Other | 1,222 | 1,087 | Q | Q | Q | Q | Q | 482 | Q | Q |
| Vacant | 1,908 | 368 | Q | Q | Q | N | Q | Q | Q | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 4,034 | 2,911 | 677 | 284 | 1,206 | Q | 254 | 1,244 | Q | Q |
| 1920 to 1945 | 6,445 | 4,383 | 657 | 551 | 2,074 | 134 | 984 | 2,367 | Q | Q |
| 1946 to 1959 | 9,127 | 7,601 | 1,239 | 984 | 2,833 | 406 | 1,329 | 4,427 | 261 | Q |
| 1960 to 1969 | 10,866 | 9,325 | 957 | 1,119 | 2,296 | 633 | 2,765 | 5,686 | 527 | Q |
| 1970 to 1979 | 11,840 | 11,050 | 1,621 | 1,793 | 2,237 | 492 | 2,766 | 7,001 | 499 | 316 |
| 1980 to 1989 | 13,931 | 12,849 | 1,904 | 2,711 | 2,155 | 424 | 2,584 | 8,978 | 345 | 348 |
| 1990 to 1999 | 11,094 | 10,355 | 1,274 | 1,705 | 1,476 | 407 | 2,229 | 6,825 | 339 | Q |
| Census Region | | | | | | | | | | |
| Northeast | 12,360 | 10,311 | 950 | 1,215 | 3,897 | 326 | 2,782 | 6,641 | Q | Q |
| Midwest | 16,761 | 14,371 | 2,951 | 1,063 | 3,724 | 746 | 3,149 | 8,198 | Q | 328 |
| South | 23,485 | 21,549 | 3,272 | 4,604 | 4,526 | 939 | 4,328 | 13,915 | 339 | 343 |
| West | 14,731 | 12,243 | 1,156 | 2,265 | 2,130 | 739 | 2,651 | 7,773 | 1,624 | 324 |
| Climate Zone: 45-Year Average | | | | | | | | | | |
| Under 2,000 CDD and -- | | | | | | | | | | |
| More than 7,000 HDD | 5,890 | 4,804 | 643 | 246 | 1,682 | Q | 971 | 2,753 | Q | Q |
| 5,500-7,000 HDD | 17,083 | 14,289 | 2,433 | 1,069 | 4,070 | 763 | 3,309 | 8,340 | 540 | 420 |
| 4,000-5,499 HDD | 16,243 | 13,999 | 2,085 | 3,144 | 3,945 | 653 | 3,555 | 8,301 | Q | 266 |
| Fewer than 4,000 HDD | 16,333 | 14,535 | 1,550 | 2,924 | 2,516 | 683 | 3,061 | 10,105 | 690 | 284 |
| 2,000 CDD or More and -- | | | | | | | | | | |
| Fewer than 4,000 HDD | 11,788 | 10,847 | 1,617 | 1,765 | 2,063 | 589 | 2,014 | 7,028 | 646 | 228 |

Table B35. Cooling Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | | |
|---|--|----------------------|---|------------|-----------------------------|------------------------|------------------|---------------------------------|---------------|-------|
| | All Buildings | All Cooled Buildings | Cooling Equipment (more than one may apply) | | | | | | | |
| | | | Residential-Type Central Air Conditioners | Heat Pumps | Individual Air Conditioners | District Chilled Water | Central Chillers | Packaged Air Conditioning Units | Swamp Coolers | Other |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 14,321 | 8,704 | 2,041 | 753 | 2,568 | Q | 297 | 4,264 | 315 | Q |
| 5 to 9 | 6,325 | 5,291 | 921 | 677 | 1,226 | Q | 223 | 2,933 | 317 | Q |
| 10 to 19 | 8,028 | 7,409 | 1,187 | 1,267 | 2,037 | Q | 277 | 4,334 | Q | Q |
| 20 to 49 | 10,814 | 9,930 | 1,341 | 1,688 | 2,138 | 162 | 1,054 | 6,776 | 394 | 210 |
| 50 to 99 | 8,898 | 8,519 | 791 | 1,493 | 2,046 | 478 | 1,646 | 5,963 | 365 | Q |
| 100 to 249 | 8,356 | 8,129 | 868 | 1,027 | 1,940 | 484 | 2,597 | 5,507 | 360 | 341 |
| 250 or More | 10,595 | 10,491 | 1,180 | 2,243 | 2,322 | 1,234 | 6,815 | 6,751 | 335 | 381 |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 6,596 | 3,113 | 671 | 240 | 961 | Q | 218 | 1,820 | Q | Q |
| 40 to 48 | 13,105 | 11,041 | 1,882 | 1,985 | 2,573 | 239 | 1,402 | 6,164 | 399 | 165 |
| 49 to 60 | 14,200 | 13,225 | 1,477 | 2,009 | 2,746 | 589 | 2,569 | 7,890 | 350 | 350 |
| 61 to 84 | 12,458 | 11,701 | 1,648 | 1,619 | 2,334 | 504 | 3,182 | 7,950 | 432 | Q |
| 85 to 167 | 9,116 | 8,528 | 1,015 | 1,286 | 2,010 | 505 | 1,098 | 6,194 | 513 | Q |
| Open Continuously | 11,863 | 10,866 | 1,637 | 2,007 | 3,652 | 893 | 4,441 | 6,509 | 370 | 418 |
| Multibuilding Facility Activity | | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | | |
| Facility | 41,289 | 36,386 | 5,509 | 5,793 | 9,135 | 309 | 6,902 | 23,072 | 1,344 | 649 |
| College or University | 2,605 | 2,058 | Q | Q | 376 | 933 | 595 | 666 | Q | Q |
| Primary or Secondary School | 3,388 | 3,001 | 188 | 372 | 1,056 | Q | 831 | 1,945 | Q | Q |
| Office Complex | 3,353 | 3,191 | Q | 388 | 281 | Q | 1,325 | 1,875 | Q | Q |
| Retail Complex | 3,555 | 3,463 | 221 | 494 | 552 | Q | Q | 2,882 | Q | Q |
| Religious Campus or Complex | 1,907 | 1,702 | Q | Q | 430 | Q | Q | 1,115 | Q | Q |
| Health Care Complex | 2,339 | 2,201 | 446 | 592 | 522 | 454 | 1,229 | 1,351 | Q | Q |
| Government Complex | 1,513 | 1,218 | Q | Q | 367 | 464 | 503 | 400 | Q | Q |
| Other | 7,389 | 5,254 | 1,285 | 806 | 1,556 | 293 | 1,133 | 3,220 | Q | Q |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 65,716 | 58,474 | 8,329 | 9,147 | 14,276 | 2,750 | 12,909 | 36,527 | 2,219 | 1,312 |
| Natural Gas | 45,525 | 42,147 | 6,805 | 5,771 | 10,715 | 1,316 | 10,145 | 27,987 | 1,950 | 773 |
| Fuel Oil | 13,285 | 12,185 | 1,314 | 2,435 | 4,276 | 749 | 6,081 | 7,121 | 407 | 535 |
| District Heat | 5,891 | 5,165 | 335 | 782 | 1,240 | 2,354 | 2,114 | 2,054 | Q | Q |
| District Chilled Water | 2,750 | 2,750 | Q | 336 | 359 | 2,750 | 386 | 721 | Q | Q |
| Propane | 6,290 | 5,415 | 867 | 800 | 1,626 | Q | 828 | 3,460 | 222 | Q |
| Other | 2,322 | 2,069 | 338 | 326 | 593 | Q | 550 | 1,368 | Q | Q |
| Cooling Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 55,545 | 55,545 | 8,329 | 9,120 | 14,276 | 1,093 | 12,405 | 35,387 | 2,175 | 1,244 |
| Natural Gas | 1,914 | 1,914 | Q | 187 | 376 | Q | 272 | 1,595 | Q | Q |
| District Chilled Water | 2,750 | 2,750 | Q | 336 | 359 | 2,750 | 386 | 721 | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 61,602 | 56,361 | 8,010 | 9,052 | 13,754 | 2,739 | 12,560 | 35,247 | 2,190 | 1,257 |
| Buildings with Cooling | 58,474 | 58,474 | 8,329 | 9,147 | 14,276 | 2,750 | 12,909 | 36,527 | 2,219 | 1,312 |
| Buildings with Water Heating | 56,115 | 52,589 | 7,278 | 8,409 | 12,888 | 2,455 | 12,484 | 33,328 | 2,060 | 1,191 |
| Buildings with Cooking | 24,681 | 23,730 | 2,965 | 4,406 | 6,798 | 1,047 | 8,488 | 15,767 | 1,148 | 641 |
| Buildings with Manufacturing | 3,126 | 2,861 | 563 | 422 | 1,198 | Q | 445 | 1,889 | 212 | Q |
| Buildings with Electricity Generation | 11,882 | 11,538 | 1,358 | 2,544 | 2,860 | 919 | 6,234 | 7,328 | 511 | 583 |
| Percent of Floorspace Cooled | | | | | | | | | | |
| Not Cooled | 8,864 | N | N | N | N | N | N | N | N | N |
| 1 to 50 | 16,846 | 16,846 | 3,054 | 1,910 | 6,855 | Q | 903 | 9,465 | 880 | 233 |
| 51 to 99 | 16,966 | 16,966 | 2,604 | 3,040 | 3,647 | 772 | 6,368 | 10,695 | 540 | 591 |
| 100 | 24,662 | 24,662 | 2,672 | 4,197 | 3,774 | 1,805 | 5,639 | 16,368 | 800 | 488 |

Table B35. Cooling Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | | | | | |
|---|--|----------------------|---|------------|-----------------------------|------------------------|------------------|---------------------------------|---------------|-------|-------|
| | All Buildings | All Cooled Buildings | Cooling Equipment (more than one may apply) | | | | | | | | Other |
| | | | Residential-Type Central Air Conditioners | Heat Pumps | Individual Air Conditioners | District Chilled Water | Central Chillers | Packaged Air Conditioning Units | Swamp Coolers | | |
| Heating Equipment (more than one may apply) | | | | | | | | | | | |
| Heat Pumps | 8,923 | 8,766 | 1,362 | 8,243 | 2,378 | 376 | 2,109 | 4,709 | 483 | 285 | |
| Furnaces | 14,449 | 12,819 | 4,975 | 1,601 | 3,655 | Q | 1,259 | 7,240 | 756 | 225 | |
| Individual Space Heaters | 17,349 | 15,708 | 2,810 | 2,750 | 6,603 | 567 | 3,863 | 10,774 | 835 | 285 | |
| District Heat | 5,534 | 4,844 | 303 | 701 | 1,140 | 2,279 | 2,069 | 1,884 | Q | Q | |
| Boilers | 19,522 | 17,947 | 2,282 | 2,749 | 6,406 | 326 | 8,549 | 10,047 | 823 | 637 | |
| Packaged Heating Units | 25,743 | 25,134 | 2,617 | 3,799 | 5,127 | 497 | 4,425 | 23,495 | 1,253 | 385 | |
| Other | 4,073 | 3,592 | 646 | 528 | 887 | 159 | 1,679 | 2,138 | Q | 468 | |
| Cooling Equipment (more than one may apply) | | | | | | | | | | | |
| Residential-Type Central Air Conditioners | 8,329 | 8,329 | 8,329 | 1,441 | 2,297 | Q | 1,489 | 3,365 | Q | Q | |
| Heat Pumps | 9,147 | 9,147 | 1,441 | 9,147 | 2,443 | 336 | 2,272 | 4,895 | 549 | 293 | |
| Individual Air Conditioners | 14,276 | 14,276 | 2,297 | 2,443 | 14,276 | 359 | 2,530 | 7,353 | 562 | Q | |
| District Chilled Water | 2,750 | 2,750 | Q | 336 | 359 | 2,750 | 386 | 721 | Q | Q | |
| Central Chillers | 12,909 | 12,909 | 1,489 | 2,272 | 2,530 | 386 | 12,909 | 6,282 | 312 | Q | |
| Packaged Air Conditioning Units | 36,527 | 36,527 | 3,365 | 4,895 | 7,353 | 721 | 6,282 | 36,527 | 1,499 | 547 | |
| Swamp Coolers | 2,219 | 2,219 | Q | 549 | 562 | Q | 312 | 1,499 | 2,219 | Q | |
| Other | 1,312 | 1,312 | Q | 293 | Q | Q | Q | 547 | Q | 1,312 | |
| Main Equipment Replaced Since 1995 (more than one may apply) | | | | | | | | | | | |
| Heating | 13,220 | 12,424 | 1,978 | 2,245 | 3,066 | Q | 1,672 | 8,991 | 730 | 230 | |
| Cooling | 17,390 | 17,390 | 2,497 | 2,905 | 5,823 | Q | 3,380 | 11,357 | 910 | 358 | |
| Building Shell Conservation Features (more than one may apply) | | | | | | | | | | | |
| Multipaned Windows | 38,193 | 35,476 | 5,424 | 6,148 | 9,049 | 1,705 | 9,288 | 21,728 | 959 | 903 | |
| Tinted, Reflective, or Shading Glass | 29,915 | 28,721 | 3,465 | 4,682 | 5,298 | 1,827 | 8,534 | 19,291 | 1,201 | 759 | |
| HVAC Conservation Features (more than one may apply) | | | | | | | | | | | |
| Variable Air-Volume System | 19,387 | 19,009 | 2,235 | 2,872 | 2,857 | 1,837 | 8,391 | 12,246 | 589 | 557 | |
| Economizer Cycle | 21,256 | 21,256 | 2,448 | 3,516 | 4,117 | 1,911 | 9,218 | 14,637 | 966 | 720 | |
| HVAC Maintenance | 53,395 | 50,309 | 6,780 | 8,272 | 11,204 | 2,670 | 12,705 | 32,576 | 2,040 | 1,220 | |
| Energy Management and Control System (EMCS) | 21,613 | 20,817 | 2,049 | 3,343 | 4,116 | 2,186 | 9,343 | 12,958 | 626 | 843 | |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | | | | | |
| Heating | 39,969 | 36,639 | 5,217 | 5,804 | 7,866 | 1,631 | 6,968 | 23,102 | 1,560 | 702 | |
| Cooling | 39,161 | 39,161 | 5,697 | 5,916 | 8,668 | 1,573 | 7,368 | 24,691 | 1,528 | 752 | |
| Lighting | 51,083 | 46,004 | 6,512 | 7,018 | 10,240 | 1,855 | 8,214 | 28,904 | 1,800 | 890 | |
| Office Equipment | 9,063 | 8,748 | 860 | 1,350 | 2,329 | 378 | 2,467 | 5,605 | 258 | Q | |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B36. Refrigeration Equipment, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|--|---|------------------------|--------------------------|--|--|---|------------------------|--------------------------|
| | All Buildings | All Buildings with Refrigeration Equipment | Type of Equipment (more than one may apply) | | | All Buildings | All Buildings with Refrigeration Equipment | Type of Equipment (more than one may apply) | | |
| | | | Walk-In | Open Cases or Cabinets | Closed Cases or Cabinets | | | Walk-In | Open Cases or Cabinets | Closed Cases or Cabinets |
| All Buildings | 4,657 | 950 | 658 | 255 | 719 | 67,338 | 25,652 | 19,713 | 8,808 | 19,938 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 479 | 356 | 116 | 378 | 6,774 | 1,370 | 1,059 | 309 | 1,123 |
| 5,001 to 10,000 | 1,110 | 152 | 101 | 62 | 113 | 8,238 | 1,135 | 736 | 498 | 854 |
| 10,001 to 25,000 | 708 | 135 | 67 | 20 | 90 | 11,153 | 2,186 | 1,069 | 320 | 1,505 |
| 25,001 to 50,000 | 257 | 78 | 51 | 18 | 58 | 9,311 | 2,873 | 1,877 | 651 | 2,098 |
| 50,001 to 100,000 | 145 | 56 | 41 | 19 | 41 | 10,112 | 4,051 | 2,980 | 1,351 | 2,976 |
| 100,001 to 200,000 | 59 | 31 | 25 | 12 | 22 | 8,271 | 4,398 | 3,584 | 1,726 | 3,175 |
| 200,001 to 500,000 | 23 | 14 | 13 | 5 | 12 | 6,851 | 4,376 | 3,869 | 1,491 | 3,607 |
| Over 500,000 | 7 | 6 | 5 | 2 | 5 | 6,628 | 5,262 | 4,539 | 2,462 | 4,599 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 84 | 51 | 16 | 57 | 8,651 | 5,423 | 4,199 | 1,433 | 3,757 |
| Food Sales | 174 | 159 | 127 | 57 | 113 | 994 | 962 | 737 | 601 | 781 |
| Food Service | 349 | 334 | 261 | 90 | 273 | 1,851 | 1,783 | 1,576 | 514 | 1,287 |
| Health Care | 127 | 12 | 7 | 3 | 10 | 2,918 | 1,931 | 1,749 | 762 | 1,660 |
| Inpatient | 11 | 9 | 6 | 2 | 8 | 1,865 | 1,749 | 1,693 | 708 | 1,502 |
| Outpatient | 116 | Q | Q | Q | Q | 1,053 | Q | Q | Q | Q |
| Lodging | 153 | 30 | 20 | 6 | 23 | 4,521 | 2,360 | 1,973 | 458 | 2,022 |
| Mercantile | 667 | 178 | 127 | 68 | 136 | 10,398 | 5,600 | 4,424 | 3,020 | 4,788 |
| Retail (Other Than Mall) | 534 | 97 | 66 | Q | 70 | 4,766 | 1,090 | 609 | 414 | 864 |
| Enclosed and Strip Malls | 133 | 81 | 61 | 41 | 67 | 5,631 | 4,509 | 3,816 | 2,606 | 3,924 |
| Office | 739 | 26 | 17 | 5 | 15 | 12,044 | 3,331 | 2,350 | 1,370 | 2,742 |
| Public Assembly | 305 | 61 | 23 | Q | 44 | 4,393 | 1,664 | 959 | 378 | 1,398 |
| Public Order and Safety | 72 | Q | 3 | Q | Q | 1,168 | 221 | 163 | Q | Q |
| Religious Worship | 307 | 21 | Q | Q | 19 | 3,405 | 574 | Q | Q | 427 |
| Service | 478 | Q | Q | Q | Q | 3,388 | Q | Q | Q | Q |
| Warehouse and Storage | 603 | 20 | 10 | Q | Q | 10,477 | 1,177 | 948 | Q | 414 |
| Other | 102 | Q | Q | Q | Q | 1,222 | Q | Q | Q | Q |
| Vacant | 253 | Q | Q | N | Q | 1,908 | Q | Q | N | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 61 | 32 | Q | 52 | 4,034 | 940 | 424 | Q | 854 |
| 1920 to 1945 | 499 | 104 | 70 | Q | 98 | 6,445 | 2,176 | 1,551 | 318 | 1,896 |
| 1946 to 1959 | 763 | 119 | 77 | 46 | 79 | 9,127 | 3,063 | 2,096 | 1,163 | 2,325 |
| 1960 to 1969 | 665 | 123 | 76 | 17 | 97 | 10,866 | 4,490 | 3,636 | 1,397 | 3,260 |
| 1970 to 1979 | 774 | 176 | 149 | 58 | 124 | 11,840 | 4,937 | 4,051 | 1,990 | 3,930 |
| 1980 to 1989 | 846 | 229 | 143 | 68 | 177 | 13,931 | 5,450 | 4,270 | 1,793 | 4,089 |
| 1990 to 1999 | 690 | 139 | 113 | 40 | 92 | 11,094 | 4,595 | 3,685 | 1,977 | 3,583 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 143 | 101 | 33 | 94 | 12,360 | 5,536 | 4,335 | 1,917 | 4,489 |
| Midwest | 1,188 | 244 | 164 | 52 | 194 | 16,761 | 6,252 | 4,580 | 1,798 | 5,038 |
| South | 1,762 | 351 | 230 | 97 | 277 | 23,485 | 8,734 | 6,809 | 3,205 | 6,606 |
| West | 1,021 | 212 | 164 | 73 | 154 | 14,731 | 5,130 | 3,988 | 1,887 | 3,804 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 349 | 215 | Q | 266 | 14,321 | 1,586 | 789 | Q | 1,245 |
| 5 to 9 | 807 | 151 | 90 | 31 | 122 | 6,325 | 1,207 | 545 | 187 | 915 |
| 10 to 19 | 683 | 178 | 152 | 57 | 118 | 8,028 | 2,144 | 1,547 | 490 | 1,466 |
| 20 to 49 | 487 | 146 | 98 | 35 | 117 | 10,814 | 3,938 | 2,551 | 1,084 | 2,958 |
| 50 to 99 | 174 | 76 | 61 | 28 | 55 | 8,898 | 4,698 | 3,841 | 1,645 | 3,482 |
| 100 to 249 | 90 | 32 | 28 | 12 | 26 | 8,356 | 4,752 | 4,444 | 1,638 | 3,700 |
| 250 or More | 39 | 18 | 14 | 8 | 15 | 10,595 | 7,328 | 5,996 | 3,466 | 6,172 |

Table B36. Refrigeration Equipment, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|---|--------------------------------|--|---|------------------------|--------------------------|--|--|---|------------------------|--------------------------|
| | All Buildings | All Buildings with Refrigeration Equipment | Type of Equipment (more than one may apply) | | | All Buildings | All Buildings with Refrigeration Equipment | Type of Equipment (more than one may apply) | | |
| | | | Walk-In | Open Cases or Cabinets | Closed Cases or Cabinets | | | Walk-In | Open Cases or Cabinets | Closed Cases or Cabinets |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 62 | 13 | Q | 58 | 6,596 | 743 | 340 | Q | 625 |
| 40 to 48 | 1,156 | 97 | 63 | 21 | 52 | 13,105 | 2,581 | 1,711 | 645 | 1,629 |
| 49 to 60 | 986 | 148 | 75 | 41 | 120 | 14,200 | 4,230 | 2,979 | 1,417 | 3,227 |
| 61 to 84 | 664 | 210 | 154 | 49 | 156 | 12,458 | 6,035 | 4,618 | 2,311 | 4,862 |
| 85 to 167 | 474 | 321 | 260 | 102 | 262 | 9,116 | 5,198 | 4,052 | 1,971 | 4,079 |
| Open Continuously | 398 | 113 | 93 | 31 | 71 | 11,863 | 6,865 | 6,013 | 2,371 | 5,515 |
| Multibuilding Facility Activity | | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | | |
| Facility | 3,295 | 778 | 543 | 206 | 589 | 41,289 | 16,109 | 12,270 | 5,051 | 12,320 |
| College or University | 70 | 5 | 3 | Q | 4 | 2,605 | 445 | 343 | Q | 362 |
| Primary or Secondary School | 224 | 37 | 27 | 9 | 23 | 3,388 | 1,797 | 1,591 | 685 | 1,059 |
| Office Complex | 134 | 6 | 4 | 2 | 5 | 3,353 | 1,131 | 783 | 508 | 972 |
| Retail Complex | 181 | 56 | 35 | 26 | 44 | 3,555 | 2,064 | 1,543 | 1,307 | 1,864 |
| Religious Campus or Complex | 186 | 9 | Q | Q | 8 | 1,907 | 408 | Q | Q | 346 |
| Health Care Complex | 72 | 10 | 8 | 2 | 6 | 2,339 | 1,482 | 1,396 | 598 | 1,228 |
| Government Complex | 61 | 4 | Q | Q | 3 | 1,513 | 535 | Q | Q | 476 |
| Other | 434 | 45 | 35 | Q | 38 | 7,389 | 1,680 | 1,374 | 433 | 1,312 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 950 | 658 | 255 | 719 | 65,716 | 25,652 | 19,713 | 8,808 | 19,938 |
| Natural Gas | 2,670 | 652 | 466 | 182 | 492 | 45,525 | 20,198 | 16,098 | 7,308 | 15,642 |
| Fuel Oil | 434 | 97 | 46 | 13 | 85 | 13,285 | 8,214 | 6,849 | 2,917 | 6,781 |
| District Heat | 117 | 25 | 21 | Q | 13 | 5,891 | 2,541 | 1,990 | 801 | 2,179 |
| District Chilled Water | 50 | 7 | 5 | 1 | 6 | 2,750 | 1,170 | 804 | 382 | 1,026 |
| Propane | 451 | 134 | 83 | 26 | 111 | 6,290 | 2,819 | 2,252 | 914 | 2,242 |
| Other | 153 | 47 | 20 | Q | 41 | 2,322 | 1,256 | 1,051 | 460 | 1,004 |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 859 | 594 | 238 | 639 | 61,602 | 24,514 | 18,993 | 8,459 | 19,004 |
| Buildings with Cooling | 3,560 | 896 | 640 | 252 | 671 | 58,474 | 24,720 | 19,288 | 8,670 | 19,118 |
| Buildings with Water Heating | 3,239 | 905 | 647 | 252 | 680 | 56,115 | 24,625 | 19,141 | 8,569 | 19,106 |
| Buildings with Cooking | 857 | 682 | 488 | 188 | 532 | 24,681 | 21,775 | 17,386 | 8,113 | 17,428 |
| Buildings with Manufacturing | 151 | 12 | 5 | Q | Q | 3,126 | 691 | 569 | Q | 474 |
| Buildings with Electricity Generation | 172 | 60 | 50 | 16 | 48 | 11,882 | 8,172 | 7,044 | 3,378 | 6,819 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | | |
| Commercial Food Preparation | 767 | 640 | 465 | 178 | 498 | 23,328 | 21,054 | 16,962 | 7,863 | 16,837 |
| Activities with Large Amounts of Hot Water | 698 | 408 | 299 | 114 | 311 | 21,793 | 16,721 | 13,876 | 6,103 | 13,362 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B37. Water Heating Equipment, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|--|--------------------------------|----------------------------------|---------------------------------|--------------------|---|--|----------------------------------|---------------------------------|--------------------|---|
| | All Buildings | All Buildings with Water Heating | Type of Water Heating Equipment | | | All Buildings | All Buildings with Water Heating | Type of Water Heating Equipment | | |
| | | | Centralized System | Distributed System | Combination Centralized and Distributed Systems | | | Centralized System | Distributed System | Combination Centralized and Distributed Systems |
| All Buildings | 4,657 | 3,239 | 2,472 | 566 | 200 | 67,338 | 56,115 | 35,579 | 10,899 | 9,637 |
| Building Floorspace (Square Feet) | | | | | | | | | | |
| 1,001 to 5,000 | 2,348 | 1,456 | 1,175 | 244 | Q | 6,774 | 4,280 | 3,411 | 767 | Q |
| 5,001 to 10,000 | 1,110 | 778 | 606 | 141 | 31 | 8,238 | 5,748 | 4,479 | 1,014 | 255 |
| 10,001 to 25,000 | 708 | 574 | 416 | 103 | 55 | 11,153 | 9,000 | 6,505 | 1,679 | 816 |
| 25,001 to 50,000 | 257 | 222 | 151 | 37 | 34 | 9,311 | 8,088 | 5,464 | 1,373 | 1,250 |
| 50,001 to 100,000 | 145 | 127 | 79 | 23 | 25 | 10,112 | 8,887 | 5,534 | 1,615 | 1,739 |
| 100,001 to 200,000 | 59 | 54 | 31 | 12 | 10 | 8,271 | 7,527 | 4,317 | 1,703 | 1,507 |
| 200,001 to 500,000 | 23 | 21 | 12 | 4 | 5 | 6,851 | 6,258 | 3,365 | 1,179 | 1,714 |
| Over 500,000 | 7 | 7 | 3 | 2 | 2 | 6,628 | 6,327 | 2,504 | 1,569 | 2,255 |
| Principal Building Activity | | | | | | | | | | |
| Education | 327 | 240 | 141 | 55 | 45 | 8,651 | 8,059 | 5,049 | 1,088 | 1,922 |
| Food Sales | 174 | 163 | 139 | Q | Q | 994 | 951 | 635 | Q | Q |
| Food Service | 349 | 349 | 305 | Q | Q | 1,851 | 1,846 | 1,548 | Q | Q |
| Health Care | 127 | 126 | 103 | Q | 6 | 2,918 | 2,903 | 1,755 | 363 | 785 |
| Inpatient | 11 | 11 | 8 | Q | 3 | 1,865 | 1,862 | 961 | Q | 690 |
| Outpatient | 116 | 115 | 95 | Q | Q | 1,053 | 1,040 | 794 | Q | Q |
| Lodging | 153 | 149 | 124 | Q | 9 | 4,521 | 4,442 | 3,589 | Q | 552 |
| Mercantile | 667 | 439 | 326 | 98 | 15 | 10,398 | 8,698 | 4,306 | 3,088 | 1,303 |
| Retail (Other Than Mall) | 534 | 323 | 260 | 60 | Q | 4,766 | 3,453 | 2,479 | 881 | Q |
| Enclosed and Strip Malls | 133 | 116 | 66 | 38 | 12 | 5,631 | 5,244 | 1,828 | 2,207 | 1,209 |
| Office | 739 | 615 | 426 | 156 | 33 | 12,044 | 10,872 | 6,184 | 2,186 | 2,502 |
| Public Assembly | 305 | 249 | 191 | 45 | 13 | 4,393 | 3,893 | 2,722 | 655 | 516 |
| Public Order and Safety | 72 | 41 | 35 | Q | Q | 1,168 | 830 | 605 | Q | Q |
| Religious Worship | 307 | 252 | 222 | 16 | 14 | 3,405 | 3,109 | 2,495 | 266 | 347 |
| Service | 478 | 280 | 226 | 51 | Q | 3,388 | 2,351 | 1,742 | 429 | Q |
| Warehouse and Storage | 603 | 227 | 140 | 79 | 8 | 10,477 | 6,743 | 3,914 | 2,070 | 759 |
| Other | 102 | 64 | 53 | Q | 3 | 1,222 | 983 | 674 | Q | 171 |
| Vacant | 253 | 44 | 43 | Q | Q | 1,908 | 436 | 361 | Q | Q |
| Year Constructed | | | | | | | | | | |
| 1919 or Before | 419 | 277 | 254 | 12 | 11 | 4,034 | 3,130 | 2,524 | 242 | 364 |
| 1920 to 1945 | 499 | 311 | 238 | 52 | 21 | 6,445 | 4,644 | 2,935 | 819 | 889 |
| 1946 to 1959 | 763 | 493 | 385 | 83 | 25 | 9,127 | 7,154 | 4,824 | 1,208 | 1,122 |
| 1960 to 1969 | 665 | 493 | 383 | 76 | 33 | 10,866 | 9,421 | 6,525 | 1,540 | 1,356 |
| 1970 to 1979 | 774 | 592 | 450 | 118 | 24 | 11,840 | 10,182 | 6,384 | 2,040 | 1,757 |
| 1980 to 1989 | 846 | 623 | 440 | 130 | 54 | 13,931 | 12,137 | 6,822 | 2,924 | 2,390 |
| 1990 to 1999 | 690 | 450 | 323 | 95 | 33 | 11,094 | 9,446 | 5,564 | 2,125 | 1,758 |
| Census Region | | | | | | | | | | |
| Northeast | 686 | 515 | 411 | 78 | 26 | 12,360 | 10,577 | 6,941 | 1,823 | 1,813 |
| Midwest | 1,188 | 776 | 609 | 117 | 50 | 16,761 | 13,702 | 9,037 | 2,328 | 2,336 |
| South | 1,762 | 1,179 | 874 | 218 | 87 | 23,485 | 19,014 | 11,500 | 4,120 | 3,395 |
| West | 1,021 | 769 | 578 | 153 | 38 | 14,731 | 12,822 | 8,102 | 2,628 | 2,093 |
| Workers (main shift) | | | | | | | | | | |
| Fewer than 5 | 2,376 | 1,312 | 1,124 | 149 | 39 | 14,321 | 8,401 | 7,108 | 866 | 427 |
| 5 to 9 | 807 | 643 | 475 | 146 | 22 | 6,325 | 5,145 | 3,739 | 1,105 | 301 |
| 10 to 19 | 683 | 586 | 413 | 143 | 30 | 8,028 | 7,000 | 5,204 | 1,403 | 393 |
| 20 to 49 | 487 | 417 | 295 | 68 | 54 | 10,814 | 9,445 | 6,000 | 1,921 | 1,524 |
| 50 to 99 | 174 | 159 | 88 | 40 | 31 | 8,898 | 8,166 | 4,468 | 1,935 | 1,763 |
| 100 to 249 | 90 | 85 | 57 | 14 | 14 | 8,356 | 7,760 | 4,140 | 1,685 | 1,935 |
| 250 or More | 39 | 36 | 20 | 6 | 10 | 10,595 | 10,199 | 4,920 | 1,984 | 3,294 |

Table B37. Water Heating Equipment, Number of Buildings and Floorspace, 1999

| | Number of Buildings (thousand) | | | | | Total Floorspace (million square feet) | | | | |
|---|--------------------------------|----------------------------------|---------------------------------|--------------------|---|--|----------------------------------|---------------------------------|--------------------|---|
| | All Buildings | All Buildings with Water Heating | Type of Water Heating Equipment | | | All Buildings | All Buildings with Water Heating | Type of Water Heating Equipment | | |
| | | | Centralized System | Distributed System | Combination Centralized and Distributed Systems | | | Centralized System | Distributed System | Combination Centralized and Distributed Systems |
| Weekly Operating Hours | | | | | | | | | | |
| 39 or Fewer | 978 | 427 | 362 | 47 | 18 | 6,596 | 3,340 | 2,748 | 336 | 255 |
| 40 to 48 | 1,156 | 779 | 577 | 175 | 27 | 13,105 | 10,049 | 7,001 | 1,931 | 1,117 |
| 49 to 60 | 986 | 746 | 553 | 149 | 44 | 14,200 | 12,280 | 7,321 | 3,039 | 1,921 |
| 61 to 84 | 664 | 521 | 386 | 102 | 34 | 12,458 | 11,334 | 6,440 | 2,493 | 2,401 |
| 85 to 167 | 474 | 436 | 336 | 55 | 45 | 9,116 | 8,041 | 4,985 | 1,535 | 1,521 |
| Open Continuously | 398 | 330 | 259 | 38 | 33 | 11,863 | 11,070 | 7,084 | 1,564 | 2,422 |
| Multibuilding Facility Activity | | | | | | | | | | |
| Not Part of a Multibuilding | | | | | | | | | | |
| Facility | 3,295 | 2,361 | 1,909 | 335 | 117 | 41,289 | 34,705 | 22,835 | 6,269 | 5,601 |
| College or University | 70 | 65 | 44 | 16 | 5 | 2,605 | 2,326 | 1,700 | 253 | 373 |
| Primary or Secondary School | 224 | 122 | 73 | 22 | 28 | 3,388 | 2,862 | 1,705 | 429 | 728 |
| Office Complex | 134 | 106 | 47 | 51 | 7 | 3,353 | 3,035 | 1,304 | 948 | 783 |
| Retail Complex | 181 | 141 | 81 | 57 | 3 | 3,555 | 3,108 | 1,491 | 1,310 | 307 |
| Religious Campus or Complex | 186 | 128 | 96 | Q | Q | 1,907 | 1,656 | 1,286 | Q | Q |
| Health Care Complex | 72 | 52 | 35 | Q | Q | 2,339 | 2,185 | 1,171 | Q | 709 |
| Government Complex | 61 | 42 | 27 | Q | Q | 1,513 | 1,177 | 783 | Q | Q |
| Other | 434 | 222 | 161 | 43 | 17 | 7,389 | 5,061 | 3,305 | 1,080 | 676 |
| Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 4,395 | 3,239 | 2,472 | 566 | 200 | 65,716 | 56,115 | 35,579 | 10,899 | 9,637 |
| Natural Gas | 2,670 | 2,191 | 1,706 | 342 | 143 | 45,525 | 41,366 | 26,479 | 7,585 | 7,302 |
| Fuel Oil | 434 | 288 | 228 | 37 | 23 | 13,285 | 11,852 | 6,533 | 1,870 | 3,448 |
| District Heat | 117 | 101 | 84 | 7 | 11 | 5,891 | 5,301 | 3,464 | 695 | 1,142 |
| District Chilled Water | 50 | 37 | 29 | 3 | 6 | 2,750 | 2,455 | 1,556 | 254 | 644 |
| Propane | 451 | 334 | 247 | 50 | 36 | 6,290 | 5,409 | 3,504 | 958 | 947 |
| Other | 153 | 89 | 71 | 14 | 5 | 2,322 | 1,887 | 1,184 | 352 | 351 |
| Water-Heating Energy Sources (more than one may apply) | | | | | | | | | | |
| Electricity | 1,546 | 1,546 | 1,048 | 399 | 99 | 24,171 | 24,171 | 12,585 | 7,068 | 4,519 |
| Natural Gas | 1,520 | 1,520 | 1,244 | 173 | 103 | 29,196 | 29,196 | 19,755 | 4,032 | 5,409 |
| Fuel Oil | 110 | 110 | 88 | Q | Q | 2,218 | 2,218 | 1,534 | Q | 498 |
| District Heat | 62 | 62 | 52 | 5 | 5 | 4,182 | 4,182 | 2,715 | 566 | 901 |
| Propane | 130 | 130 | 104 | Q | Q | 1,371 | 1,371 | 1,020 | Q | Q |
| Energy End Uses (more than one may apply) | | | | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,087 | 2,344 | 548 | 195 | 61,602 | 54,204 | 34,201 | 10,502 | 9,500 |
| Buildings with Cooling | 3,560 | 2,915 | 2,195 | 525 | 194 | 58,474 | 52,589 | 32,972 | 10,261 | 9,356 |
| Buildings with Water Heating | 3,239 | 3,239 | 2,472 | 566 | 200 | 56,115 | 56,115 | 35,579 | 10,899 | 9,637 |
| Buildings with Cooking | 857 | 818 | 608 | 98 | 112 | 24,681 | 23,830 | 13,553 | 4,346 | 5,932 |
| Buildings with Manufacturing | 151 | 89 | 64 | 20 | 5 | 3,126 | 2,364 | 1,385 | 601 | 378 |
| Buildings with Electricity Generation | 172 | 143 | 103 | Q | 18 | 11,882 | 11,079 | 5,974 | 1,828 | 3,277 |
| Energy-Related Space Functions (more than one may apply) | | | | | | | | | | |
| Commercial Food Preparation | 767 | 733 | 542 | 91 | 99 | 23,328 | 22,563 | 12,730 | 4,141 | 5,692 |
| Activities with Large Amounts of Hot Water | 698 | 698 | 522 | 81 | 94 | 21,793 | 21,793 | 13,070 | 3,452 | 5,271 |

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

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B38. Lighting Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|--|--------------------------------|-------------------|--|----------------------|---------------------|--------------------------|---------|
| | All Buildings | All Lit Buildings | Lighting Equipment (more than one may apply) | | | | |
| | | | Incandescent | Standard Fluorescent | Compact Fluorescent | High-Intensity Discharge | Halogen |
| All Buildings | 4,657 | 4,172 | 2,193 | 3,778 | 607 | 430 | 572 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 2,348 | 2,024 | 980 | 1,795 | 198 | 80 | 194 |
| 5,001 to 10,000 | 1,110 | 1,003 | 548 | 904 | 149 | 94 | 136 |
| 10,001 to 25,000 | 708 | 663 | 391 | 628 | 109 | 111 | 123 |
| 25,001 to 50,000 | 257 | 249 | 138 | 230 | 62 | 60 | 43 |
| 50,001 to 100,000 | 145 | 143 | 83 | 136 | 48 | 43 | 41 |
| 100,001 to 200,000 | 59 | 59 | 33 | 56 | 24 | 25 | 23 |
| 200,001 to 500,000 | 23 | 23 | 14 | 22 | 12 | 11 | 9 |
| Over 500,000 | 7 | 7 | 5 | 7 | 4 | 5 | 4 |
| Principal Building Activity | | | | | | | |
| Education | 327 | 327 | 120 | 309 | 56 | 49 | 34 |
| Food Sales | 174 | 173 | 53 | 172 | Q | Q | Q |
| Food Service | 349 | 349 | 277 | 308 | 78 | Q | 84 |
| Health Care | 127 | 127 | 83 | 126 | 20 | 8 | 34 |
| Inpatient | 11 | 11 | 9 | 11 | 8 | 3 | 3 |
| Outpatient | 116 | 116 | 74 | 115 | 13 | Q | 31 |
| Lodging | 153 | 149 | 130 | 121 | 55 | 18 | 25 |
| Mercantile | 667 | 666 | 346 | 614 | 86 | 40 | 97 |
| Retail (Other Than Mall) | 534 | 532 | 269 | 483 | 69 | 27 | 75 |
| Enclosed and Strip Malls | 133 | 133 | 77 | 131 | 17 | Q | 22 |
| Office | 739 | 738 | 362 | 696 | 131 | 39 | 81 |
| Public Assembly | 305 | 280 | 164 | 234 | 56 | 41 | 40 |
| Public Order and Safety | 72 | 59 | 31 | 57 | 6 | 6 | Q |
| Religious Worship | 307 | 307 | 237 | 244 | 30 | 28 | 53 |
| Service | 478 | 465 | 163 | 436 | 37 | 82 | 54 |
| Warehouse and Storage | 603 | 411 | 172 | 340 | 30 | 92 | 45 |
| Other | 102 | 86 | 32 | 84 | Q | 5 | Q |
| Vacant | 253 | 35 | Q | 34 | Q | Q | Q |
| Year Constructed | | | | | | | |
| 1919 or Before | 419 | 342 | 221 | 307 | 44 | 41 | 55 |
| 1920 to 1945 | 499 | 436 | 283 | 376 | 58 | 31 | 33 |
| 1946 to 1959 | 763 | 676 | 334 | 622 | 56 | 54 | 79 |
| 1960 to 1969 | 665 | 594 | 307 | 525 | 122 | 48 | 86 |
| 1970 to 1979 | 774 | 731 | 391 | 674 | 81 | 69 | 112 |
| 1980 to 1989 | 846 | 771 | 415 | 721 | 123 | 94 | 131 |
| 1990 to 1999 | 690 | 622 | 242 | 552 | 121 | 93 | 77 |
| Census Region | | | | | | | |
| Northeast | 686 | 608 | 273 | 565 | 111 | 63 | 92 |
| Midwest | 1,188 | 1,033 | 587 | 904 | 166 | 114 | 155 |
| South | 1,762 | 1,599 | 847 | 1,455 | 187 | 159 | 189 |
| West | 1,021 | 931 | 486 | 853 | 142 | 94 | 136 |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 2,376 | 1,922 | 986 | 1,681 | 159 | 153 | 176 |
| 5 to 9 | 807 | 793 | 391 | 737 | 105 | 57 | 105 |
| 10 to 19 | 683 | 667 | 373 | 627 | 112 | 61 | 84 |
| 20 to 49 | 487 | 487 | 258 | 442 | 133 | 76 | 120 |
| 50 to 99 | 174 | 174 | 102 | 165 | 43 | 45 | 40 |
| 100 to 249 | 90 | 90 | 56 | 88 | 32 | 22 | 31 |
| 250 or More | 39 | 39 | 26 | 39 | 23 | 14 | 17 |

Table B38. Lighting Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|---|--------------------------------|-------------------|--|----------------------|---------------------|--------------------------|---------|
| | All Buildings | All Lit Buildings | Lighting Equipment (more than one may apply) | | | | |
| | | | Incandescent | Standard Fluorescent | Compact Fluorescent | High-Intensity Discharge | Halogen |
| Weekly Operating Hours | | | | | | | |
| 39 or Fewer | 978 | 579 | 341 | 465 | 37 | 20 | 51 |
| 40 to 48 | 1,156 | 1,147 | 532 | 1,052 | 166 | 116 | 105 |
| 49 to 60 | 986 | 978 | 499 | 895 | 135 | 110 | 138 |
| 61 to 84 | 664 | 628 | 322 | 604 | 95 | 71 | 125 |
| 85 to 167 | 474 | 458 | 256 | 434 | 79 | 65 | 96 |
| Open Continuously | 398 | 381 | 243 | 327 | 94 | 48 | 58 |
| Space in Building Vacant for at Least Three Consecutive Months | | | | | | | |
| Completely Vacant | 140 | Q | Q | Q | Q | N | Q |
| Mostly Vacant | 113 | 32 | Q | 31 | Q | Q | Q |
| Partially Vacant | 697 | 563 | 316 | 524 | 99 | 69 | 103 |
| Not At All Vacant | 3,707 | 3,573 | 1,855 | 3,219 | 506 | 360 | 469 |
| Multibuilding Facility Activity | | | | | | | |
| Not Part of a Multibuilding | | | | | | | |
| Facility | 3,295 | 3,000 | 1,598 | 2,710 | 408 | 287 | 412 |
| College or University | 70 | 70 | 43 | 68 | 18 | 11 | 10 |
| Primary or Secondary School | 224 | 218 | 70 | 206 | 27 | 24 | 10 |
| Office Complex | 134 | 121 | 38 | 119 | 18 | Q | 13 |
| Retail Complex | 181 | 167 | 98 | 162 | 27 | 17 | 40 |
| Religious Campus or Complex | 186 | 176 | 112 | 159 | 15 | Q | 30 |
| Health Care Complex | 72 | 65 | 33 | 64 | 12 | 4 | Q |
| Government Complex | 61 | 43 | 17 | 37 | 5 | Q | Q |
| Other | 434 | 313 | 184 | 252 | 76 | 49 | 50 |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 4,395 | 4,172 | 2,193 | 3,778 | 607 | 430 | 572 |
| Natural Gas | 2,670 | 2,610 | 1,463 | 2,349 | 390 | 287 | 406 |
| Fuel Oil | 434 | 415 | 202 | 383 | 74 | 57 | 64 |
| District Heat | 117 | 117 | 68 | 108 | 32 | 20 | 19 |
| District Chilled Water | 50 | 50 | 25 | 49 | 17 | 11 | 5 |
| Propane | 451 | 435 | 225 | 378 | 68 | 45 | 68 |
| Other | 153 | 152 | 104 | 143 | Q | 16 | 33 |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 4,016 | 3,908 | 2,090 | 3,544 | 591 | 405 | 547 |
| Buildings with Cooling | 3,560 | 3,512 | 1,853 | 3,215 | 556 | 364 | 491 |
| Buildings with Water Heating | 3,239 | 3,197 | 1,794 | 2,925 | 516 | 339 | 487 |
| Buildings with Cooking | 857 | 857 | 550 | 787 | 179 | 96 | 207 |
| Buildings with Manufacturing | 151 | 145 | 74 | 141 | 32 | 22 | 30 |
| Buildings with Electricity Generation | 172 | 171 | 93 | 162 | 58 | 42 | 46 |
| Percent Lit When Open | | | | | | | |
| Zero | 34 | Q | N | N | N | Q | N |
| 1 to 50 | 835 | 835 | 476 | 708 | 112 | 94 | 110 |
| 51 to 99 | 1,228 | 1,228 | 780 | 1,117 | 223 | 120 | 226 |
| 100 | 2,096 | 2,096 | 928 | 1,941 | 271 | 215 | 236 |
| Building Never Open/ Electricity Not Used | 464 | Q | Q | Q | Q | N | Q |
| Percent Lit When Closed | | | | | | | |
| Zero | 2,174 | 1,959 | 960 | 1,738 | 220 | 173 | 187 |
| 1 to 50 | 1,688 | 1,688 | 938 | 1,589 | 253 | 187 | 296 |
| 51 to 100 | 143 | 143 | 51 | 123 | 39 | 22 | 31 |
| Building Never Closed/ Electricity Not Used | 652 | 381 | 243 | 327 | 94 | 48 | 58 |

Table B38. Lighting Equipment, Number of Buildings, 1999

| | Number of Buildings (thousand) | | | | | | |
|--|--------------------------------|-------------------|--|----------------------|---------------------|--------------------------|---------|
| | All Buildings | All Lit Buildings | Lighting Equipment (more than one may apply) | | | | |
| | | | Incandescent | Standard Fluorescent | Compact Fluorescent | High-Intensity Discharge | Halogen |
| Lighting Equipment Types (more than one may apply) | | | | | | | |
| Incandescent..... | 2,193 | 2,193 | 2,193 | 1,904 | 366 | 233 | 421 |
| Standard Fluorescent..... | 3,778 | 3,778 | 1,904 | 3,778 | 490 | 398 | 520 |
| Compact Fluorescent..... | 607 | 607 | 366 | 490 | 607 | 141 | 171 |
| High-Intensity Discharge..... | 430 | 430 | 233 | 398 | 141 | 430 | 133 |
| Halogen..... | 572 | 572 | 421 | 520 | 171 | 133 | 572 |
| Other..... | 58 | 58 | 34 | 37 | 4 | 2 | Q |
| Lighting Conservation Features (more than one may apply) | | | | | | | |
| Specular Reflectors | 843 | 843 | 430 | 843 | 177 | 121 | 153 |
| Electronic Ballasts | 2,167 | 2,167 | 1,052 | 2,151 | 340 | 273 | 313 |
| Skylights or Atriums | 580 | 531 | 311 | 484 | 107 | 94 | 117 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | |
| Heating | 2,862 | 2,791 | 1,455 | 2,586 | 408 | 283 | 374 |
| Cooling | 2,622 | 2,589 | 1,367 | 2,392 | 391 | 263 | 369 |
| Lighting | 3,675 | 3,675 | 1,899 | 3,349 | 493 | 362 | 486 |
| Office Equipment | 184 | 184 | 91 | 177 | 54 | 37 | 36 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table B39. Lighting Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|-------------------|--|----------------------|---------------------|--------------------------|---------|
| | All Buildings | All Lit Buildings | Lighting Equipment (more than one may apply) | | | | |
| | | | Incandescent | Standard Fluorescent | Compact Fluorescent | High-Intensity Discharge | Halogen |
| All Buildings | 67,338 | 64,321 | 38,156 | 60,344 | 20,666 | 19,223 | 17,926 |
| Building Floorspace (Square Feet) | | | | | | | |
| 1,001 to 5,000 | 6,774 | 5,859 | 2,946 | 5,154 | 738 | 245 | 600 |
| 5,001 to 10,000 | 8,238 | 7,464 | 4,047 | 6,722 | 1,108 | 663 | 991 |
| 10,001 to 25,000 | 11,153 | 10,393 | 6,055 | 9,815 | 1,759 | 1,701 | 1,996 |
| 25,001 to 50,000 | 9,311 | 9,053 | 5,004 | 8,344 | 2,296 | 2,224 | 1,611 |
| 50,001 to 100,000 | 10,112 | 9,997 | 5,880 | 9,525 | 3,425 | 3,101 | 2,929 |
| 100,001 to 200,000 | 8,271 | 8,197 | 4,685 | 7,817 | 3,429 | 3,633 | 3,241 |
| 200,001 to 500,000 | 6,851 | 6,731 | 4,396 | 6,423 | 3,575 | 3,259 | 2,677 |
| Over 500,000 | 6,628 | 6,628 | 5,143 | 6,544 | 4,336 | 4,397 | 3,882 |
| Principal Building Activity | | | | | | | |
| Education | 8,651 | 8,651 | 5,027 | 8,325 | 2,746 | 3,761 | 2,302 |
| Food Sales | 994 | 992 | 525 | 985 | Q | Q | Q |
| Food Service | 1,851 | 1,851 | 1,450 | 1,623 | 575 | Q | 558 |
| Health Care | 2,918 | 2,918 | 2,246 | 2,881 | 1,712 | 943 | 1,350 |
| Inpatient | 1,865 | 1,865 | 1,554 | 1,859 | 1,389 | 782 | 1,009 |
| Outpatient | 1,053 | 1,053 | 692 | 1,022 | 323 | Q | 341 |
| Lodging | 4,521 | 4,476 | 3,713 | 4,109 | 2,587 | 933 | 1,686 |
| Mercantile | 10,398 | 10,383 | 5,586 | 9,824 | 2,793 | 2,494 | 3,058 |
| Retail (Other Than Mall) | 4,766 | 4,754 | 2,240 | 4,286 | 724 | 767 | 790 |
| Enclosed and Strip Malls | 5,631 | 5,628 | 3,346 | 5,539 | 2,068 | 1,727 | 2,268 |
| Office | 12,044 | 12,037 | 7,598 | 11,608 | 5,844 | 2,946 | 4,034 |
| Public Assembly | 4,393 | 4,295 | 2,777 | 3,913 | 1,467 | 1,594 | 980 |
| Public Order and Safety | 1,168 | 1,006 | 513 | 984 | 304 | 319 | Q |
| Religious Worship | 3,405 | 3,405 | 2,775 | 3,048 | 633 | 490 | 965 |
| Service | 3,388 | 3,336 | 1,276 | 3,218 | 299 | 1,163 | 384 |
| Warehouse and Storage | 10,477 | 9,289 | 3,803 | 8,200 | 1,192 | 3,870 | 1,830 |
| Other | 1,222 | 1,176 | 644 | 1,142 | 300 | 382 | Q |
| Vacant | 1,908 | 506 | Q | 483 | Q | Q | Q |
| Year Constructed | | | | | | | |
| 1919 or Before | 4,034 | 3,569 | 2,533 | 3,246 | 1,040 | 682 | 871 |
| 1920 to 1945 | 6,445 | 5,877 | 3,909 | 5,417 | 1,423 | 1,530 | 921 |
| 1946 to 1959 | 9,127 | 8,544 | 4,951 | 8,031 | 2,019 | 1,981 | 1,861 |
| 1960 to 1969 | 10,866 | 10,541 | 6,268 | 9,939 | 3,445 | 2,986 | 2,916 |
| 1970 to 1979 | 11,840 | 11,638 | 7,089 | 11,099 | 3,824 | 3,413 | 3,511 |
| 1980 to 1989 | 13,931 | 13,284 | 8,028 | 12,619 | 4,755 | 4,166 | 4,272 |
| 1990 to 1999 | 11,094 | 10,869 | 5,377 | 9,993 | 4,160 | 4,464 | 3,574 |
| Census Region | | | | | | | |
| Northeast | 12,360 | 11,804 | 7,047 | 11,348 | 3,939 | 4,382 | 3,625 |
| Midwest | 16,761 | 15,996 | 9,903 | 14,840 | 5,518 | 5,513 | 4,405 |
| South | 23,485 | 22,365 | 12,970 | 20,850 | 6,427 | 5,874 | 5,847 |
| West | 14,731 | 14,156 | 8,236 | 13,305 | 4,781 | 3,454 | 4,049 |
| Workers (main shift) | | | | | | | |
| Fewer than 5 | 14,321 | 11,461 | 6,532 | 9,890 | 1,388 | 1,348 | 1,448 |
| 5 to 9 | 6,325 | 6,251 | 3,289 | 5,796 | 1,118 | 990 | 880 |
| 10 to 19 | 8,028 | 7,945 | 4,437 | 7,439 | 1,682 | 1,233 | 1,482 |
| 20 to 49 | 10,814 | 10,814 | 5,841 | 10,106 | 3,032 | 2,984 | 2,585 |
| 50 to 99 | 8,898 | 8,898 | 5,330 | 8,474 | 2,781 | 3,306 | 2,539 |
| 100 to 249 | 8,356 | 8,356 | 5,082 | 8,164 | 3,573 | 3,551 | 3,003 |
| 250 or More | 10,595 | 10,595 | 7,644 | 10,475 | 7,093 | 5,812 | 5,989 |

Table B39. Lighting Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|---|--|-------------------|--|----------------------|---------------------|--------------------------|---------|
| | All Buildings | All Lit Buildings | Lighting Equipment (more than one may apply) | | | | |
| | | | Incandescent | Standard Fluorescent | Compact Fluorescent | High-Intensity Discharge | Halogen |
| Weekly Operating Hours | | | | | | | |
| 39 or Fewer | 6,596 | 4,087 | 2,569 | 3,355 | 401 | 421 | 596 |
| 40 to 48 | 13,105 | 13,061 | 6,904 | 12,064 | 2,607 | 2,867 | 1,955 |
| 49 to 60 | 14,200 | 14,170 | 8,181 | 13,256 | 4,298 | 3,691 | 3,615 |
| 61 to 84 | 12,458 | 12,316 | 7,649 | 11,978 | 4,613 | 4,273 | 4,576 |
| 85 to 167 | 9,116 | 8,905 | 4,873 | 8,525 | 2,769 | 3,653 | 2,616 |
| Open Continuously | 11,863 | 11,784 | 7,980 | 11,166 | 5,978 | 4,319 | 4,568 |
| Space in Building Vacant for at Least Three Consecutive Months | | | | | | | |
| Completely Vacant | 953 | Q | Q | Q | Q | N | Q |
| Mostly Vacant | 956 | 409 | Q | 386 | Q | Q | Q |
| Partially Vacant | 15,520 | 14,697 | 9,454 | 14,140 | 6,349 | 4,888 | 5,590 |
| Not At All Vacant | 49,910 | 49,118 | 28,480 | 45,721 | 14,208 | 14,322 | 12,290 |
| Multibuilding Facility Activity | | | | | | | |
| Not Part of a Multibuilding | | | | | | | |
| Facility | 41,289 | 39,447 | 23,311 | 36,819 | 12,015 | 11,225 | 10,585 |
| College or University | 2,605 | 2,597 | 1,427 | 2,498 | 1,046 | 716 | 560 |
| Primary or Secondary School | 3,388 | 3,338 | 1,945 | 3,169 | 927 | 1,318 | 840 |
| Office Complex | 3,353 | 3,273 | 1,978 | 3,213 | 1,583 | 899 | 1,200 |
| Retail Complex | 3,555 | 3,487 | 2,068 | 3,381 | 1,083 | 994 | 1,383 |
| Religious Campus or Complex | 1,907 | 1,887 | 1,310 | 1,800 | 393 | Q | 557 |
| Health Care Complex | 2,339 | 2,309 | 1,635 | 2,273 | 1,311 | 823 | 919 |
| Government Complex | 1,513 | 1,341 | 683 | 1,319 | 507 | 484 | Q |
| Other | 7,389 | 6,643 | 3,798 | 5,872 | 1,801 | 2,501 | 1,655 |
| Energy Sources (more than one may apply) | | | | | | | |
| Electricity | 65,716 | 64,321 | 38,156 | 60,344 | 20,666 | 19,223 | 17,926 |
| Natural Gas | 45,525 | 45,043 | 27,997 | 42,436 | 15,294 | 14,854 | 14,031 |
| Fuel Oil | 13,285 | 13,192 | 9,076 | 12,874 | 6,857 | 6,227 | 5,840 |
| District Heat | 5,891 | 5,891 | 3,779 | 5,649 | 3,111 | 2,158 | 1,866 |
| District Chilled Water | 2,750 | 2,750 | 1,578 | 2,703 | 1,541 | 900 | 864 |
| Propane | 6,290 | 6,255 | 3,341 | 5,852 | 1,593 | 2,062 | 1,629 |
| Other | 2,322 | 2,318 | 1,638 | 2,212 | 860 | 1,001 | 916 |
| Energy End Uses (more than one may apply) | | | | | | | |
| Buildings with Space Heating | 61,602 | 61,017 | 36,640 | 57,516 | 20,127 | 18,821 | 17,373 |
| Buildings with Cooling | 58,474 | 58,077 | 34,584 | 55,007 | 19,829 | 18,076 | 17,093 |
| Buildings with Water Heating | 56,115 | 55,746 | 34,373 | 52,823 | 19,339 | 17,681 | 16,757 |
| Buildings with Cooking | 24,681 | 24,681 | 17,469 | 23,810 | 11,262 | 9,908 | 10,335 |
| Buildings with Manufacturing | 3,126 | 3,069 | 1,509 | 2,926 | 800 | 1,207 | 911 |
| Buildings with Electricity Generation | 11,882 | 11,877 | 8,413 | 11,585 | 7,132 | 6,086 | 6,201 |
| Percent Lit When Open | | | | | | | |
| Zero | 173 | Q | N | N | N | Q | N |
| 1 to 50 | 9,187 | 9,187 | 5,551 | 8,127 | 1,878 | 1,442 | 1,784 |
| 51 to 99 | 20,665 | 20,665 | 14,573 | 19,430 | 8,141 | 6,629 | 6,977 |
| 100 | 34,233 | 34,233 | 17,940 | 32,575 | 10,615 | 11,148 | 9,135 |
| Building Never Open/ Electricity Not Used | | | | | | | |
| | 3,080 | 232 | Q | 213 | Q | N | Q |
| Percent Lit When Closed | | | | | | | |
| Zero | 20,771 | 19,428 | 9,760 | 17,697 | 3,314 | 4,052 | 2,966 |
| 1 to 50 | 30,950 | 30,950 | 19,364 | 29,535 | 10,581 | 10,208 | 9,732 |
| 51 to 100 | 2,160 | 2,160 | 1,052 | 1,946 | 794 | 645 | 660 |
| Building Never Closed/ Electricity Not Used | | | | | | | |
| | 13,457 | 11,784 | 7,980 | 11,166 | 5,978 | 4,319 | 4,568 |

Table B39. Lighting Equipment, Floorspace, 1999

| | Total Floorspace (million square feet) | | | | | | |
|--|--|-------------------|--|----------------------|---------------------|--------------------------|---------|
| | All Buildings | All Lit Buildings | Lighting Equipment (more than one may apply) | | | | |
| | | | Incandescent | Standard Fluorescent | Compact Fluorescent | High-Intensity Discharge | Halogen |
| Lighting Equipment Types (more than one may apply) | | | | | | | |
| Incandescent..... | 38,156 | 38,156 | 38,156 | 35,707 | 15,682 | 12,726 | 14,037 |
| Standard Fluorescent..... | 60,344 | 60,344 | 35,707 | 60,344 | 19,242 | 18,465 | 17,171 |
| Compact Fluorescent..... | 20,666 | 20,666 | 15,682 | 19,242 | 20,666 | 9,386 | 10,517 |
| High-Intensity Discharge..... | 19,223 | 19,223 | 12,726 | 18,465 | 9,386 | 19,223 | 8,832 |
| Halogen..... | 17,926 | 17,926 | 14,037 | 17,171 | 10,517 | 8,832 | 17,926 |
| Other..... | 1,004 | 1,004 | 697 | 862 | 525 | 461 | 553 |
| Lighting Conservation Features (more than one may apply) | | | | | | | |
| Specular Reflectors | 19,994 | 19,994 | 12,721 | 19,994 | 8,935 | 8,144 | 7,855 |
| Electronic Ballasts | 42,035 | 42,035 | 24,967 | 41,473 | 16,117 | 15,009 | 13,717 |
| Skylights or Atriums | 18,286 | 17,885 | 11,615 | 16,957 | 7,793 | 8,306 | 7,398 |
| Off-Hour Equipment Reduction (more than one may apply) | | | | | | | |
| Heating | 39,969 | 39,632 | 23,293 | 37,533 | 11,971 | 11,677 | 10,516 |
| Cooling | 39,161 | 38,842 | 22,573 | 36,804 | 11,882 | 11,390 | 10,549 |
| Lighting | 51,083 | 51,083 | 29,489 | 47,891 | 14,346 | 14,631 | 13,044 |
| Office Equipment | 9,063 | 9,052 | 5,132 | 8,742 | 3,264 | 3,668 | 2,760 |

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.