Release date: May 2016

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natura consumptio (billion cubi | ŀ | Total floorspace of buildings using natural gas (million square feet) | | | Natural gas energy intensity (cubic feet/square foot) | | | |
|-----------------------------------|---------------------------------------------|----------|-----------------------------------------------------------------------|--------------------------|----------|-------------------------------------------------------|--------------------------|----------|---------|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 |
| Building floorspace (square feet) | | | | | | | | | |
| 1,001 to 5,000 | 36 | 17 | 37 | 521 | 327 | 560 | 68.2 | 51.9 | 66.5 |
| 5,001 to 10,000 | 31 | 21 | 34 | 657 | 372 | 902 | 46.7 | 57.1 | 37.8 |
| 10,001 to 25,000 | 26 | 23 | 51 | 916 | 665 | 1,733 | 28.6 | 34.7 | 29.5 |
| 25,001 to 50,000 | 25 | 10 | 47 | 987 | 312 | 1,435 | 25.1 | 30.8 | 33.0 |
| 50,001 to 100,000 | 35 | 18 | 30 | 1,310 | 536 | 1,095 | 26.4 | 33.6 | 27.4 |
| 100,001 to 200,000 | 13 | 12 | 46 | 989 | 379 | 1,536 | 13.2 | 30.6 | 29.8 |
| 200,001 to 500,000 | 14 | 22 | 57 | 586 | 684 | 1,124 | 24.0 | 32.0 | 51.0 |
| Over 500,000 | 23 | Q | 17 | 515 | Q | 581 | 44.2 | Q | 28.7 |
| Principal building activity | | | | | | | | | |
| Education | 25 | 18 | 22 | 1,463 | 635 | 791 | 16.8 | 27.7 | 28.1 |
| Food sales | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Food service | 38 | Q | 33 | 185 | Q | 241 | 205.3 | Q | 137.6 |
| Health care | 29 | 19 | 38 | 335 | 232 | 430 | 85.5 | 83.4 | 87.4 |
| Inpatient | 26 | 12 | Q | 263 | 118 | 306 | 99.5 | 102.6 | 111.5 |
| Outpatient | Q | Q | 4 | Q | Q | 124 | Q | Q | 28.2 |
| Lodging | 16 | Q | 32 | 535 | 503 | 810 | 29.6 | 83.2 | 39.5 |
| Mercantile | 24 | 14 | 61 | 805 | 606 | 1,788 | 29.4 | 23.8 | 34.0 |
| Retail (other than mall) | 5 | Q | 11 | 355 | Q | 806 | 13.6 | Q | 13.2 |
| Enclosed and strip malls | 19 | 9 | 50 | 450 | 351 | 983 | 41.8 | 25.6 | 51.1 |
| Office | 15 | 18 | 34 | 904 | 616 | 1,716 | 16.3 | 29.6 | 19.6 |
| Public assembly | Q | Q | 15 | 368 | Q | 593 | Q | Q | 25.9 |
| Public order and safety | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Religious worship | 4 | Q | Q | 256 | Q | 311 | 15.2 | Q | Q |
| Service | 10 | Q | 9 | 287 | Q | 271 | 36.3 | Q | 33.5 |
| Warehouse and storage | 9 | Q | 26 | 901 | Q | 1,143 | 10.2 | 34.3 | 22.6 |
| Other | Q | Q | Q | Q | Q | Q | | Q | Q |
| Vacant | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Year constructed | | | | | | | | | |
| Before 1920 | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| 1920 to 1945 | 9 | Q | 16 | 381 | Q | 388 | 22.6 | Q | 40.2 |
| 1946 to 1959 | 14 | 12 | 25 | 593 | 273 | 832 | 23.9 | 45.5 | 29.9 |
| 1960 to 1969 | 25 | 14 | 57 | 587 | 370 | 1,096 | 43.4 | 37.5 | 52.1 |
| 1970 to 1979 | 35 | 25 | 37 | 980 | 650 | 1,352 | 35.7 | 37.8 | 27.7 |
| 1980 to 1989 | 44 | 22 | 49 | 1,280 | 616 | 1,935 | 34.5 | 36.3 | 25.4 |
| 1990 to 1999 | 33 | 22 | 58 | 1,124 | 642 | 1,434 | 29.3 | 34.1 | 40.6 |
| 2000 to 2003 | 17 | 15 | 18 | 617 | 303 | 601 | 27.4 | 48.0 | 29.2 |
| 2004 to 2007 | 11 | Q | 23 | 345 | 501 | 573 | 30.5 | Q | 40.5 |
| 2008 to 2012 | 10 | Q | Q | 507 | Q | 613 | 20.4 | Q | 55.9 |

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natura consumptio (billion cubi | n | Total floorspace of buildings using natural gas (million square feet) | | | | | | |
|-------------------------------------------------------------------|---------------------------------------------|----------|-----------------------------------------------------------------------|--------------------------|------------|---------|--------------------------|----------|---------|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 |
| Climate region ¹ | | | | | | | | | |
| Very cold/Cold | N | 131 | 55 | N | 2,872 | 1,251 | N | 45.6 | 44.3 |
| Mixed-humid | 82 | N | N | 2,301 | N | N | 35.5 | N | N |
| Mixed-dry/Hot-dry | Q | 29 | 198 | Q | 894 | 5,681 | 24.0 | 31.9 | 34.8 |
| Hot-humid | 97 | N | N | 3,235 | N | N | 30.1 | N | N |
| Marine | N | N | 67 | | N | 2,033 | N | N | 32.7 |
| Number of floors | | | | | | | | | |
| One | 111 | 65 | 149 | 3,598 | 1,838 | 4,322 | 30.7 | 35.2 | 34.6 |
| Two | 38 | 36 | 69 | | 919 | 2,253 | 29.6 | 39.3 | 30.5 |
| Three | 11 | 8 | 16 | | 227 | 564 | 19.6 | 37.4 | 29.1 |
| Four to nine | 32 | 14 | 75 | | 357 | 1,343 | 44.0 | 38.4 | 55.8 |
| Ten or more | 11 | Q | 10 | | Q | 484 | 31.9 | Q | 21.0 |
| Number of workers (main shift) | | | | | | | | | |
| Fewer than 5 | 30 | 23 | 26 | 1,010 | 531 | 1,041 | 30.1 | 42.5 | 25.4 |
| 5 to 9 | 20 | 13 | 31 | | 319 | 919 | 33.7 | 41.2 | 33.9 |
| 10 to 19 | 30 | 19 | 46 | | 483 | 1,376 | 35.7 | 38.6 | 33.2 |
| 20 to 49 | 43 | 26 | 61 | | 726 | 1,989 | 35.1 | 35.3 | 30.8 |
| 50 to 99 | 21 | 13 | 42 | | 475 | 1,308 | 16.7 | 26.6 | 31.7 |
| 100 to 249 | 24 | 22 | 57 | | 585 | 969 | 36.2 | 37.3 | 59.3 |
| 250 or more | 32 | Q | 56 | | 646 | 1,364 | 37.8 | 69.7 | 41.2 |
| Weekly operating hours | | | | | | | | | |
| Fewer than 40 | 11 | Q | 9 | 539 | Q | 484 | 19.5 | 33.9 | 19.0 |
| 40 to 48 | Q | 23 | 38 | 1,413 | 723 | 1,475 | 16.8 | 32.0 | 26.1 |
| 49 to 60 | 31 | 29 | 43 | 1,605 | 878 | 2,203 | 19.4 | 33.4 | 19.5 |
| 61 to 84 | 37 | 14 | 72 | 850 | 571 | 1,999 | 43.1 | 23.8 | 35.8 |
| 85 to 167 | 36 | 18 | 37 | 572 | 360 | 981 | 63.4 | 49.0 | 38.1 |
| Open continuously | 63 | 66 | 120 | 1,501 | 947 | 1,824 | 42.1 | 69.8 | 65.9 |
| Ownership and occupancy | | | | | | | | | |
| Nongovernment owned | 156 | 129 | 271 | 4,499 | 2,747 | 7,576 | 34.6 | 47.0 | 35.8 |
| Owner occupied | 69 | 79 | 127 | 2,364 | 1,226 | 3,050 | 29.3 | 64.3 | 41.7 |
| Leased to tenant(s) | 71 | 33 | 119 | 1,635 | 1,070 | 3,389 | 43.3 | 31.2 | 35.1 |
| Owner occupied and leased | 15 | 17 | 24 | 484 | 452 | 1,030 | 32.0 | 37.5 | 22.9 |
| Unoccupied | Q | N | Q | Q | N | Q | Q | N | Q |
| Government owned | 46 | 30 | 49 | 1,981 | 1,019 | 1,390 | 23.1 | 29.8 | 35.0 |
| Federal | Q | Q | Q | | Q | Q | Q | Q | Q |
| State | 13 | 10 | 17 | 544 | 358 | 430 | 23.4 | 28.7 | 38.6 |
| Local | 31 | 15 | 28 | 1,380 | 605 | 874 | 22.5 | 25.5 | 31.5 |
| Party responsible for operation and maintenance of energy systems | | | | | | | | | |
| Building owner | 165 | 139 | 248 | 5,701 | 3,254 | 7,055 | 29.0 | 42.9 | 35.1 |
| | 33 | | 64 | | 3,234 Q | 1,765 | 46.6 | 40.9 | 36.2 |
| Business owner or tenant | | Q | | | | | | | |
| Property management Other | Q Q | Q | Q | | Q | Q | Q | Q | Q |
| Ouici | ų. | Q | Q | Q | Q | Q | Q | Q | Q |

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natura consumptio (billion cubi | n | | Total floorspace of buildings using natural gas (million square feet) | | | Natural gas energy inter (cubic feet/ | | |
|--------------------------------------------------------------------|---------------------------------------------|----------|---------|-----------------------------------------------------------------------|----------|---------|---------------------------------------------|----------|---------|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 |
| Provider of direct input on energy- related equipment purchases | | | | | | | | | |
| Building owner | 165 | 149 | 263 | 5,758 | 3,442 | 7,577 | 28.7 | 43.2 | 34.7 |
| Business owner or tenant | 29 | 10 | 51 | 587 | 248 | 1,229 | 48.7 | 38.7 | 41.6 |
| Property management | Q | N | Q | Q | N | Q | Q | N | Q |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Number of establishments | | | | | | | | | |
| One | 145 | 113 | 213 | 4,634 | 2,313 | 5,429 | 31.3 | 49.1 | 39.3 |
| 2 to 5 | 34 | 31 | 48 | 1,184 | 912 | 1,672 | 28.7 | 34.5 | 28.6 |
| 6 to 10 | Q | Q | 26 | Q | Q | 668 | Q | Q | 38.7 |
| 11 to 20 | Q | Q | 18 | Q | Q | 478 | Q | Q | 37.1 |
| More than 20 | Q | Q | 13 | Q | Q | 593 | Q | Q | 22.1 |
| Currently unoccupied | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Predominant exterior wall material | | | | | | | | | |
| Brick, stone, or stucco | 102 | 74 | 127 | 3,416 | 1,803 | 3,175 | 29.8 | 41.1 | 40.1 |
| Concrete (block or poured) | 50 | 30 | 87 | 1,369 | 923 | 2,687 | 36.3 | 33.0 | 32.2 |
| Concrete panels | 13 | Q | 29 | 522 | Q | 1,551 | 25.3 | Q | 18.8 |
| Siding or shingles | 16 | Q | 37 | 201 | Q | 719 | Q | Q | 51.5 |
| Metal panels | 19 | 11 | 10 | 877 | 321 | 427 | 21.4 | 35.3 | 23.9 |
| Window glass | Q | Q | 13 | Q | Q | 208 | Q | Q | 60.8 |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| No one major type | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Predominant roof material | | | | | | | | | |
| Metal surfacing | 44 | 21 | 29 | 1,508 | 580 | 958 | 28.9 | 36.4 | 30.2 |
| Synthetic or rubber | 45 | 80 | 99 | 1,393 | 1,553 | 2,067 | 32.3 | 51.5 | 48.0 |
| Built-up | 65 | 29 | 87 | 2,144 | 871 | 2,844 | 30.5 | 33.7 | 30.5 |
| Slate or tile shingles | 12 | Q | 34 | 302 | Q | 686 | 40.4 | Q | 48.9 |
| Wooden materials (including shingles) | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Asphalt, fiberglass, or | | | | | | | | | |
| other shingles | 28 | 19 | 50 | 945 | 576 | 1,707 | 29.9 | 32.8 | 29.5 |
| Concrete | Q | Q | 4 | Q | Q | 229 | Q | Q | 19.6 |
| Other | N | Q | Q | N | Q | Q | N | Q | Q |
| No one major type | Q | N | Q | Q | N | Q | Q | N | Q |
| Roof characteristics | | | | | | | | | |
| Roof tilt | | | | | | | | | |
| Flat | 122 | 80 | 224 | 3,621 | 2,042 | 5,581 | 33.8 | 39.0 | 40.2 |
| Shallow pitch | 53 | Q | 64 | | 1,253 | 2,351 | 26.1 | 47.9 | 27.1 |
| Steeper pitch | 26 | 20 | 32 | | 471 | 1,034 | | 41.8 | 30.7 |
| Cool roof | 51 | 36 | 126 | 1,517 | 1,122 | 2,533 | 33.9 | 32.1 | 49.7 |

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natura consumptio (billion cubi | n | | Total floorspace of buildings using natural gas (million square feet) | | | Natural gas energy intensity (cubic feet/square foot) | | | |
|----------------------------------------------------------------------------------|---------------------------------------------|----------|--------------|-----------------------------------------------------------------------|--------------|------------|-------------------------------------------------------------|----------|---------|--|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 | |
| Renovations in buildings constructed before 2008 (more than one may apply) | | | | | | | | | | |
| Any type of renovation | 109 | 96 | 151 | 3,317 | 1,945 | 3,830 | 33.0 | 49.3 | 39.5 | |
| Addition or annex | 39 | Q | 38 | 1,084 | 824 | 696 | 36.3 | 64.4 | 54.5 | |
| Reduction in floorspace | Q | Q | Q | Q | Q | Q | Q | Q | Q | |
| Roof replacement | 58 | 38 | 78 | 1,749 | 945 | 1,612 | 33.0 | 40.4 | 48.7 | |
| Exterior wall replacement | Q | Q | Q | 266 | Q | 565 | Q | Q | 41.4 | |
| Interior wall reconfiguration | 55 | Q | 84 | 1,506 | 1,227 | 2,223 | 36.7 | 53.9 | 37.6 | |
| Window replacement | 39 | Q | 33 | 705 | 718 | 1,080 | 55.3 | 72.5 | 31.0 | |
| HVAC equipment upgrade | 73 | 74 | 107 | 2,227 | 1,385 | 2,328 | 32.6 | 53.4 | 45.9 | |
| Lighting upgrade | 71 | 72 | 108 | 2,053 | 1,317 | 2,443 | 34.6 | 54.5 | 44.1 | |
| Electrical upgrade | 46 | Q | 76 | 1,367 | 873 | 1,455 | 33.3 | 65.9 | 51.9 | |
| Plumbing system upgrade | 48 | Q | 72 | 1,005 | 634 | 1,378 | 47.5 | 83.1 | 52.4 | |
| Insulation upgrade | 33 | Q | 30 | 614 | Q | 676 | 53.9 | Q | 43.9 | |
| Fire, safety, or security upgrade | 52 | 35 | 81 | 1,646 | 831 | 1,615 | 31.6 | 42.1 | 50.1 | |
| Structural upgrade | Q | Q | 27 | Q | Q | 547 | Q | Q | 50.1 | |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | Q | |
| No renovations | 82 | 55 | 134 | 2,656 | 1,590 | 4,523 | 30.8 | 34.6 | 29.7 | |
| Buildings constructed 2008 or later | 10 | Q | Q | 507 | Q | 613 | 20.4 | Q | 55.9 | |
| Energy sources | | | | | | | | | | |
| (more than one may apply) | | | | | | | | | | |
| Electricity | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 | |
| Natural gas | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 | |
| Fuel oil | 50 | Q | 88 | 1,150 | 916 | 1,713 | 43.7 | 65.6 | 51.1 | |
| District heat | Q | Q | Q | 124 | Q | 225 | Q | Q | Q | |
| District chilled water | Q | Q | Q | 244 | Q | 186 | Q | Q | 133.9 | |
| Propane | Q | Q | 17 | Q | Q | 587 | Q | Q | 29.4 | |
| Other | Q | 9 | Q | Q | 305 | 425 | Q | 28.0 | 57.9 | |
| Space-heating energy sources | | | | | | | | | | |
| Natural gas | 164 | 119 | 267 | 5,467 | 3,180 | 7,509 | 30.0 | 37.6 | 35.5 | |
| Natural gas main | 132 | 106 | 223 | 4,551 | 2,893 | 6,333 | 29.1 | 36.6 | 35.3 | |
| Natural gas secondary | 32 | 14 | 44 | 916 | 288 | 1,176 | | 47.7 | 37.1 | |
| Other excluding natural gas | 36 | Q | 41 | 929 | 582 | 1,250 | | Q | 32.9 | |
| Buildings without heating | Q | Q | Q | Q | | 1,230 Q | | Q | Q | |
| | | | - | | - | | <u>.</u> | <u>q</u> | | |
| Primary space-heating energy source | | | | | | | | | | |
| Electricity | 59 | 23 | 65 | 1,719 | 512 | 2,143 | 34.3 | 45.3 | 30.4 | |
| Natural gas | 132 | 106 | 223 | 4,551 | 2,893 | 6,333 | 29.1 | 36.6 | 35.3 | |
| Fuel oil | N | N | 1 | -,331 N | N | 6 | N | N | 165.1 | |
| District heat | Q | Q | Q | 124 | Q | 208 | Q | Q | Q Q | |
| Propane | Q | Q N | Q | Q | N | 200 Q | | Q | Q | |
| Other | N | 1 | (*) | N | 35 | 40 | N | 16.5 | 9.9 | |

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natura consumptio (billion cubi | n | Total floors buildings us (million squ | ing natural gas | Natural gas energy intensity (cubic feet/square foot) | | | | |
|---------------------------------|---------------------------------------------|----------|----------------------------------------------|--------------------------|-------------------------------------------------------|---------|--------------------------|----------|---------|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 |
| Cooling energy sources | | | | | | | | | |
| Natural gas | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Other excluding natural gas | 199 | 152 | 295 | 6,400 | 3,558 | 8,511 | 31.1 | 42.7 | 34.7 |
| Buildings without cooling | Q | Q | 21 | Q | Q | 417 | Q | Q | 50.9 |
| Water-heating energy sources | | | | | | | | | |
| Natural gas | 158 | 106 | 244 | 4,504 | 2,665 | 6,452 | 35.1 | 39.9 | 37.8 |
| Other excluding natural gas | 40 | Q | 70 | 1,783 | 963 | 2,200 | 22.4 | Q | 31.8 |
| Buildings without water heating | 4 | Q | 6 | 193 | Q | 314 | 19.7 | Q | 19.7 |
| Cooking energy sources | | | | | | | | | |
| Natural gas | 114 | 91 | 183 | 2,658 | 1,694 | 3,506 | 43.0 | 53.6 | 52.1 |
| Other excluding natural gas | 17 | 12 | 27 | 586 | 408 | 743 | 28.7 | 30.2 | 36.8 |
| Buildings without cooking | 71 | 56 | 109 | 3,237 | 1,664 | 4,716 | 21.8 | 33.8 | 23.2 |
| Energy end uses | | | | | | | | | |
| (more than one may apply) | | | | | | | | | |
| Buildings with space heating | 200 | 159 | 308 | 6,396 | 3,763 | 8,759 | 31.3 | 42.4 | 35.2 |
| Buildings with cooling | 200 | 154 | 298 | 6,409 | 3,609 | 8,548 | 31.2 | 42.7 | 34.9 |
| Buildings with water heating | 198 | 152 | 313 | 6,288 | 3,628 | 8,651 | 31.5 | 42.0 | 36.2 |
| Buildings with cooking | 131 | 103 | 210 | 3,244 | 2,102 | 4,249 | 40.4 | 49.1 | 49.5 |
| Buildings with manufacturing | 22 | Q | 13 | 571 | Q | 586 | 38.6 | Q | 23.0 |
| Buildings with electricity | | | | | | | | | |
| generation | 55 | 77 | 117 | 1,582 | 1,420 | 2,614 | 34.5 | 54.4 | 44.8 |
| Percent of floorspace heated | | | | | | | | | |
| Not heated | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| 1 to 50 | 8 | 9 | 45 | 619 | 271 | 2,043 | 13.6 | 33.7 | 22.1 |
| 51 to 99 | 61 | 14 | 77 | 1,255 | 564 | 2,202 | 48.4 | 25.2 | 34.8 |
| 100 | 131 | 136 | 186 | 4,522 | 2,927 | 4,514 | 29.0 | 46.5 | 41.3 |
| Percent of floorspace cooled | | | | | | | | | |
| Not cooled | Q | Q | 21 | Q | Q | 417 | Q | Q | 50.9 |
| 1 to 50 | 20 | 20 | 59 | 1,139 | 540 | 2,097 | 17.8 | 36.3 | 28.1 |
| 51 to 99 | 51 | 28 | 98 | | 907 | 2,746 | | 31.0 | 35.6 |
| 100 | 129 | 106 | 142 | 3,780 | 2,163 | 3,706 | 34.1 | 49.1 | 38.2 |
| Heating equipment | | | | | | | | | |
| (more than one may apply) | | | | | | | | | |
| Heat pumps | 29 | 10 | 58 | 931 | 333 | 1,298 | 30.7 | 31.6 | 44.8 |
| Furnaces | 25 | 15 | 31 | 1,117 | 533 | 851 | 22.4 | 27.7 | 36.8 |
| Individual space heaters | 46 | 39 | 59 | 1,373 | 1,011 | 1,818 | 33.7 | 38.9 | 32.4 |
| District heat | Q | Q | Q | 124 | Q | 208 | Q | Q | Q |
| Boilers | 59 | 54 | 118 | 1,398 | 1,070 | 2,269 | 42.4 | 50.3 | 52.2 |
| Packaged heating units | 140 | 87 | 208 | 4,502 | 2,405 | 6,178 | 31.2 | 36.0 | 33.7 |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | Q |

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natural gas consumption (billion cubic feet) | | | Total floors buildings us (million squ | sing natural gas | Natural gas energy intensity (cubic feet/square foot) | | | |
|-------------------------------------------------------------------------------------------|----------------------------------------------------|----------|---------|----------------------------------------------|------------------|-------------------------------------------------------|--------------------------|----------|---------|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 |
| Cooling equipment (more than one may apply) | | | | | | | | | |
| Residential-type central air | | | | | | | | | |
| conditioners | 44 | 19 | 69 | | 532 | 1,558 | 29.9 | 35.1 | 44.4 |
| Heat pumps | 31 | 12 | 51 | 1,073 | 410 | 1,407 | 28.5 | 28.2 | 35.9 |
| Individual air conditioners | 15 | 19 | 25 | 607 | 513 | 681 | 25.2 | 37.6 | 37.0 |
| District chilled water | Q | Q | Q | 244 | Q | 186 | Q | Q | 133.9 |
| Central chillers | 52 | 35 | 66 | 1,351 | 795 | 1,504 | 38.4 | 44.2 | 44.1 |
| Packaged air conditioning units | 120 | 73 | 192 | 3,827 | 1,955 | 5,499 | 31.2 | 37.5 | 34.8 |
| Swamp coolers | Q | 24 | 28 | Q | 571 | 533 | Q | 41.9 | 51.9 |
| Other | Q | Q | Q | Q | Q | Q | Q | Q | Q |
| Main equipment replaced since 1990 (more than one may apply) | | | | | | | | | |
| Heating | 84 | 44 | 89 | 2,353 | 1,160 | 3,014 | 35.5 | 37.6 | 29.4 |
| Cooling | 90 | 52 | 91 | 2,491 | 1,253 | 2,938 | 36.2 | 41.1 | 31.0 |
| Water-heating equipment | | | | | | | | | |
| Centralized system | 127 | 99 | 170 | 3,747 | 2,081 | 4,910 | 33.9 | 47.7 | 34.6 |
| Distributed system | 24 | 18 | 51 | 993 | 553 | 1,355 | 24.2 | 32.5 | 37.6 |
| Combination of centralized and | | | | | | | | | |
| distributed system | 47 | 35 | 92 | 1,548 | 994 | 2,387 | 30.2 | 35.3 | 38.7 |
| Food preparation or serving areas in non-food service buildings (more than one may apply) | | | | | | | | | |
| Snack bar or concession stand | 28 | Q | 45 | 713 | 679 | 1,048 | 39.5 | 72.2 | 43.4 |
| Fast food or small restaurant | 34 | Q | 58 | | 794 | 1,505 | 47.3 | Q | 38.5 |
| Cafeteria or large restaurant | 48 | Q | 71 | | 785 | 1,213 | 30.9 | 66.6 | 58.4 |
| Commercial kitchen/ | | | | | | | | | |
| food preparation area | 46 | Q | 85 | 1,392 | 949 | 1,649 | 33.0 | 64.6 | 51.3 |
| Small kitchen area | 23 | Q | 37 | | 773 | 1,265 | 23.2 | Q | 29.4 |
| HVAC conservation features | | | | | | | | | |
| (more than one may apply) | | | | | 4 =00 | 4.000 | | | |
| Economizer cycle | 66 | 84 | 157 | | 1,796 | 4,022 | 32.2 | 46.7 | 39.0 |
| Regular HVAC maintenance | 172 | 141 | 285 | | 3,290 | 7,801 | 31.6 | 42.8 | 36.5 |
| Building automation system (BAS) ² | 101 | 84 | 184 | 3,030 | 1,876 | 4,229 | 33.4 | 44.8 | 43.5 |

Table C29. Natural gas consumption and conditional energy intensity by Census division (part 3), 2012

| | Total natura consumptio (billion cubi | n | | Total floorspace of buildings using natural gas (million square feet) | | | Natural gas energy intensity (cubic feet/square foot) | | |
|---------------------------------------------------------------------------------|---------------------------------------------|----------|---------|-----------------------------------------------------------------------|----------|---------|-------------------------------------------------------------|----------|---------|
| | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific | West South Central | Mountain | Pacific |
| All buildings | 202 | 159 | 320 | 6,480 | 3,766 | 8,966 | 31.1 | 42.3 | 35.7 |
| Window and interior lighting features (more than one may apply) | | | | | | | | | |
| Multipaned windows | 137 | 130 | 217 | 4,107 | 2,965 | 5,255 | 33.3 | 43.9 | 41.3 |
| Tinted window glass | 131 | 97 | 204 | 4,067 | 2,080 | 5,778 | 32.1 | 46.7 | 35.2 |
| Reflective window glass | 32 | Q | 103 | 1,055 | 992 | 2,328 | 30.3 | 60.5 | 44.1 |
| External overhangs or awnings | 88 | 91 | 171 | 2,528 | 1,830 | 3,988 | 34.9 | 49.5 | 43.0 |
| Skylights or atriums | 55 | Q | 127 | 1,487 | 1,261 | 3,305 | 37.2 | 53.4 | 38.3 |
| Light scheduling | 80 | 73 | 155 | 2,155 | 1,354 | 4,330 | 36.9 | 53.7 | 35.7 |
| Occupancy sensors | 74 | Q | 174 | 2,349 | 1,622 | 4,710 | 31.3 | 48.3 | 37.0 |
| Multi-level lighting or dimming | 30 | Q | 118 | 838 | 1,073 | 2,132 | 35.9 | 56.6 | 55.4 |
| Daylight harvesting | 10 | 15 | 41 | 499 | 433 | 935 | 19.9 | 35.3 | 44.1 |
| Demand responsive lighting | Q | Q | 27 | Q | Q | 1,103 | Q | Q | 24.3 |
| Building automation system (BAS) for | | | | | | | | | |
| lighting ² | 19 | 18 | 61 | 901 | 624 | 1,838 | 21.4 | 29.6 | 33.4 |
| Equipment usage reduced when building not in full use (more than one may apply) | | | | | | | | | |
| Heating | 142 | 104 | 226 | 4,952 | 2,952 | 7,300 | 28.6 | 35.2 | 30.9 |
| Cooling | 140 | 96 | 224 | 4,893 | 2,726 | 7,118 | 28.5 | 35.2 | 31.5 |
| Lighting | 179 | 153 | 296 | 6,034 | 3,641 | 8,289 | 29.7 | 42.1 | 35.7 |
| Annual consumption (hundred cubic feet) | | | | | | | | | |
| 1,000 or less | 7 | 4 | 8 | 1,161 | 306 | 1,638 | 6.3 | 13.3 | 5.2 |
| 1,001 to 5,000 | 32 | 23 | 37 | 1,697 | 893 | 2,168 | 19.1 | 26.1 | 17.2 |
| 5,001 to 10,000 | 27 | 17 | 31 | 1,222 | 389 | 1,018 | 22.1 | 42.6 | 30.2 |
| 10,001 to 25,000 | 42 | 31 | 81 | 1,036 | 788 | 1,662 | 40.5 | 39.4 | 49.0 |
| 25,001 to 50,000 | 23 | 17 | 39 | 627 | 434 | 1,033 | 36.3 | 38.6 | 37.6 |
| 50,001 to 100,000 | Q | 13 | 38 | Q | 350 | 574 | Q | 36.8 | 65.5 |
| Over 100,000 | 45 | Q | 85 | 494 | Q | 873 | 91.0 | 90.5 | 97.8 |

¹These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

Notes: • Because of rounding, data may not sum to totals. • See the *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definitions of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from

http://www.eia.gov/consumption/commercial/data/2012/ • Statistics for the *Energy end uses* category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, ventilation, and air conditioning.

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

²In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)*.

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

N = No cases in reporting sample.

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