Release date: April 2015 Revised date: May 2016

Table B45. Refrigeration equipment, number of buildings, 2012

## Number of buildings (thousand)

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

Table B45. Refrigeration equipment, number of buildings, 2012

## Number of buildings (thousand)

|                                | Type of refrigeration equipment (more than one may apply) |   |                  |                              |                                |                                |                                  |  |                          |
|--------------------------------|---|---|------------------|------------------------------|--------------------------------|--------------------------------|----------------------------------|--|--------------------------|
|                                | All<br>buildings  | Buildings<br>with any<br>refrig-<br>eration<br>equip-<br>ment | Walk-in<br>units | Open<br>cases or<br>cabinets | Closed<br>cases or<br>cabinets | Large cold<br>storage<br>areas | Comm-<br>ercial<br>ice<br>makers | Resid-<br>ential-<br>type or<br>compact<br>units | Vending<br>mach-<br>ines |
| All buildings                  | 5,557   | 3,984   | 811              | 295                          | 826                            | 78                             | 846                              | 3,388  | 960                      |
| Census region and division     |   |   |                  |                              |                                |                                |                                  |  |                          |
| Northeast                      | 805   | 593   | 139              | 51                           | 155                            | 12                             | 101                              | 511  | 135                      |
| New England                    | 302   | 212   | 59               | 16                           | 64                             | Q                              | 36                               | 186  | 47                       |
| Middle Atlantic                | 504   | 381   | 81               | 35                           | 91                             | 11                             | 64                               | 325  | 88                       |
| Midwest                        | 1,237   | 898   | 175              | 53                           | 190                            | 14                             | 167                              | 795  | 194                      |
| East North Central             | 735   | 566   | 113              | 38                           | 121                            | 9                              | 111                              | 495  | 117                      |
| West North Central             | 502   | 332   | 62               | 16                           | 68                             | Q                              | 55                               | 300  | 77                       |
| South                          | 2,247   | 1,630   | 332              | 125                          | 313                            | 33                             | 412                              | 1,342  | 436                      |
|                                |   |   |                  |                              |                                |                                |                                  |  |                          |
| South Atlantic                 | 1,091   | 789   | 180              | 71                           | 167                            | 19                             | 216                              | 640  | 220                      |
| East South Central             | 370   | 311   | 51               | 23                           | 59                             | Q 7                            | 77                               | 261  | 89                       |
| West South Central             | 786   | 530   | 100              | 32                           | 87                             | 7                              | 119                              | 441  | 126                      |
| West                           | 1,267   | 864   | 166              | 65                           | 169                            | 19                             | 166                              | 740  | 195                      |
| Mountain                       | 338   | 222   | 43               | 17                           | 44                             | Q                              | 49                               | 185  | 51                       |
| Pacific                        | 929   | 641   | 122              | 48                           | 125                            | 14                             | 118                              | 554  | 145                      |
| Climate region <sup>1</sup>    |   |   |                  |                              |                                |                                |                                  |  |                          |
| Very cold/Cold                 | 2,031   | 1,427   | 295              | 89                           | 326                            | 26                             | 266                              | 1,250  | 321                      |
| Mixed-humid                    | 1,743   | 1,313   | 272              | 114                          | 274                            | 27                             | 311                              | 1,091  | 327                      |
| Mixed-dry/Hot-dry              | 837   | 575   | 90               | 41                           | 94                             | 10                             | 100                              | 498  | 130                      |
| Hot-humid                      | 799   | 566   | 126              | 41                           | 107                            | 12                             | 142                              | 455  | 157                      |
| Marine                         | 147   | 104   | 28               | 10                           | Q                              | Q                              | 25                               | 94   | 25                       |
| Number of floors               |   |   |                  |                              |                                |                                |                                  |  |                          |
| One                            | 3,836   | 2,602   | 553              | 212                          | 540                            | 50                             | 541                              | 2,176  | 563                      |
| Two                            | 1,158   | 915   | 151              | 49                           | 165                            | 20                             | 183                              | 800  | 235                      |
|                                |   |   |                  |                              | 74                             |                                |                                  |  |                          |
| Three                          | 374   | 301   | 59               | 16                           |                                | Q                              | 60                               | 267  | 78                       |
| Four to nine                   | 177   | 154   | 43               | 15                           | 40                             | 4                              | 54                               | 135  | 75                       |
| Ten or more                    | 13  | 12  | 6                | 3                            | 6                              | (*)                            | 7                                | 10   | 10                       |
| Number of workers (main shift) |   |   |                  |                              |                                |                                |                                  |  |                          |
| Fewer than 5                   | 2,892   | 1,697   | 229              | 73                           | 282                            | Q                              | 232                              | 1,449  | 195                      |
| 5 to 9                         | 1,085   | 899   | 169              | 66                           | 185                            | Q                              | 167                              | 764  | 169                      |
| 10 to 19                       | 731   | 632   | 150              | 43                           | 134                            | Q                              | 160                              | 532  | 159                      |
| 20 to 49                       | 513   | 445   | 139              | 57                           | 118                            | 14                             | 141                              | 379  | 205                      |
| 50 to 99                       | 206   | 190   | 75               | 30                           | 55                             | 8                              | 80                               | 162  | 132                      |
| 100 to 249                     | 93  | 86  | 34               | 17                           | 36                             | 7                              | 43                               | 72   | 69                       |
| 250 or more                    | 37  | 35  | 16               | 9                            | 16                             | 2                              | 23                               | 30   | 31                       |
| Weekly operating hours         |   |   |                  |                              |                                |                                |                                  |  |                          |
| Fewer than 40                  | 1,149   | 604   | 32               | Q                            | 60                             | Q                              | 60                               | 576  | 27                       |
| 40 to 48                       | 1,346   | 986   | 65               | 24                           | 72                             | Q                              | 87                               | 916  | 178                      |
| 49 to 60                       | 1,244   | 965   | 96               | 24                           | 129                            | 8                              | 137                              | 877  | 250                      |
| 61 to 84                       | 764   | 624   | 238              | 88                           | 237                            | 30                             | 205                              | 486  | 226                      |
| 85 to 167                      | 479   | 409   | 243              | 89                           | 221                            | 19                             | 190                              | 226  | 127                      |
| Open continuously              | 575   | 395   | 136              | 59                           | 107                            | 12                             | 167                              | 307  | 151                      |
| Open continuously              | 3/3   | 373   | 130              |                              | 10/                            |                                | 107                              | 307  | 131                      |

Table B45. Refrigeration equipment, number of buildings, 2012

## Number of buildings (thousand)

|   | Type of refrigeration equipment (more than one may apply) |   |                  |                              |                                |                                |                                  |  |                          |
|---|---|---|------------------|------------------------------|--------------------------------|--------------------------------|----------------------------------|--|--------------------------|
|   | All<br>buildings  | Buildings<br>with any<br>refrig-<br>eration<br>equip-<br>ment | Walk-in<br>units | Open<br>cases or<br>cabinets | Closed<br>cases or<br>cabinets | Large cold<br>storage<br>areas | Comm-<br>ercial<br>ice<br>makers | Resid-<br>ential-<br>type or<br>compact<br>units | Vending<br>mach-<br>ines |
| All buildings                                     | 5,557   | 3,984   | 811              | 295                          | 826                            | 78                             | 846                              | 3,388  | 960                      |
| Campus or complex activity                        |   |   |                  |                              |                                |                                |                                  |  |                          |
| Not part of a campus or complex                   | 3,683   | 2,864   | 618              | 223                          | 611                            | 62                             | 616                              | 2,406  | 629                      |
| Primary or secondary school                       | 237   | 114   | 45               | 12                           | 32                             | Q                              | 33                               | 87   | 44                       |
| College or university                             | 84  | 69  | 8                | 4                            | 9                              | Q                              | 15                               | 57   | 44                       |
| Office complex                                    | 154   | 112   | 4                | 3                            | 4                              | Q                              | 12                               | 107  | 30                       |
| Retail complex                                    | 258   | 210   | 84               | 41                           | 85                             | 7                              | 67                               | 171  | 79                       |
| Storage complex                                   | 314   | 37  | Q                | N                            | Q                              | Q                              | Q                                | 33   | 7                        |
| Religious campus or complex                       | 197   | 158   | Q                | Q                            | 29                             | Q                              | 22                               | 138  | Q                        |
| Health care complex                               | 52  | 46  | 14               | 5                            | 9                              | (*)                            | 19                               | 42   | 18                       |
| Lodging or resort complex                         | 65  | 49  | 7                | Q                            | 11                             | Q                              | 14                               | 42   | 14                       |
| Transportation complex                            | 35  | 25  | (*)              | Q                            | Q                              | Q                              | Q Q                              | 25   | 7                        |
| Government complex                                | 104   | 74  | 3                | Q                            | 11                             | Q                              | 12                               | 72   | 22                       |
| Other   | 371   | 226   | 16               | Q                            | 25                             | Q                              | 34                               | 209  | 54                       |
| Other   | 3/1   | 220   | 10               | Q                            |                                | <u>u</u>                       |                                  | 209  |                          |
| Energy sources                                    |   |   |                  |                              |                                |                                |                                  |  |                          |
| (more than one may apply)                         |   |   |                  |                              |                                |                                |                                  |  |                          |
| Electricity                                       | 5,234   | 3,984   | 811              | 295                          | 826                            | 78                             | 846                              | 3,388  | 960                      |
| Natural gas                                       | 2,933   | 2,433   | 593              | 208                          | 573                            | 53                             | 594                              | 2,032  | 648                      |
| Fuel oil  | 467   | 385   | 82               | 27                           | 89                             | 10                             | 107                              | 346  | 130                      |
| District heat                                     | 48  | 38  | 12               | 4                            | 9                              | Q                              | 15                               | 30   | 27                       |
| District chilled water                            | 54  | 36  | 7                | 3                            | 7                              | Q                              | 11                               | 30   | 22                       |
| Propane   | 510   | 430   | 106              | 39                           | 115                            | 9                              | 110                              | 376  | 93                       |
| Other   | 172   | 141   | 33               | 7                            | 29                             | Q                              | 32                               | 125  | 40                       |
| Energy end uses<br>(more than one may apply)      |   |   |                  |                              |                                |                                |                                  |  |                          |
| Buildings with space heating                      | 4,722   | 3,801   | 768              | 286                          | 783                            | 70                             | 805                              | 3,235  | 926                      |
| Buildings with cooling                            | 4,461   | 3,687   | 780              | 287                          | 777                            | 75                             | 824                              | 3,119  | 921                      |
| Buildings with water heating                      | 4,423   | 3,726   | 803              | 293                          | 813                            | 76                             | 837                              | 3,143  | 924                      |
| Buildings with cooking                            | 1,589   | 1,584   | 660              | 242                          | 600                            | 53                             | 630                              | 1,227  | 354                      |
| Buildings with manufacturing                      | 259   | 215   | 39               | 11                           | 42                             | Q                              | 38                               | 190  | 57                       |
| Buildings with electricity                        |   |   |                  |                              |                                |                                |                                  |  |                          |
| generation  | 410   | 377   | 118              | 44                           | 110                            | 15                             | 161                              | 329  | 184                      |
| Refrigeration equipment (more than one may apply) |   |   |                  |                              |                                |                                |                                  |  |                          |
| Any refrigeration                                 | 3,984   | 3,984   | 811              | 295                          | 826                            | 78                             | 846                              | 3,388  | 960                      |
| Walk-in units                                     | 811   | 811   | 811              | 241                          | 500                            | 58                             | 523                              | 447  | 260                      |
| Cases or cabinets                                 | 915   | 915   | 555              | 295                          | 826                            | 51                             | 534                              | 517  | 274                      |
| Large cold storage areas                          | 78  | 78  | 58               | 28                           | 49                             | 78                             | 48                               | 51   | 35                       |
| Commercial ice makers                             | 846   | 846   | 523              | 216                          | 485                            | 48                             | 846                              | 581  | 328                      |
| Residential-type or compact units                 | 3,388   | 3,388   | 447              | 170                          | 469                            | 51                             | 581                              | 3,388  | 777                      |
| Vending machines                                  | 960   | 960   | 260              | 121                          | 249                            | 35                             | 328                              | 777  | 960                      |
| No refrigeration                                  | 1,573   |   | N                | N                            |                                |                                |                                  |  | N                        |
| ivo remigeration                                  | 1,3/3   | N   | IN               | IN                           | N                              | N                              | N                                | N N  | IN                       |

Table B45. Refrigeration equipment, number of buildings, 2012

## Number of buildings (thousand)

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

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

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

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

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.

<sup>(\*) =</sup> Value rounds to zero in the units displayed.