

**Table 3.22. Refrigeration Equipment in FBSS Buildings in Federal Region 3, Number of Buildings and Floorspace, 1993**

| Building Characteristics                                     | Number of Buildings |                             |           |                    | Total Floorspace (thousand square feet) |                             |               |                    |
|--|---------------------|-----------------------------|-----------|--------------------|---|-----------------------------|---------------|--------------------|
|  | All Buildings       | Any Refrigeration Equipment | Walk-in   | Cases and Cabinets | All Buildings                           | Any Refrigeration Equipment | Walk-in       | Cases and Cabinets |
| <b>All Buildings</b> .....                                   | <b>312</b>          | <b>109</b>                  | <b>78</b> | <b>87</b>          | <b>94,880</b>                           | <b>61,731</b>               | <b>54,223</b> | <b>53,454</b>      |
| <b>Building Floorspace (square feet)</b>                     |                     |                             |           |                    |   |                             |               |                    |
| 10,000 to 50,000 .....                                       | 94                  | 21                          | 12        | 14                 | 2,564                                   | 611                         | 393           | 446                |
| 50,001 to 200,000 .....                                      | 117                 | 25                          | 15        | 20                 | 13,166                                  | 3,269                       | 2,137         | 2,499              |
| Over 200,000 .....   | 101                 | 63                          | 51        | 53                 | 79,149                                  | 57,851                      | 51,693        | 50,509             |
| <b>Principal Building Activity</b>                           |                     |                             |           |                    |   |                             |               |                    |
| Education .....  | 8                   | 3                           | 2         | 3                  | 598                                     | 333                         | 296           | 333                |
| Health Care .....  | 41                  | 20                          | 18        | 16                 | 14,559                                  | 12,538                      | 12,365        | 11,551             |
| Laboratory .....   | 37                  | 13                          | 12        | 10                 | 5,165                                   | 1,612                       | 1,560         | 1,340              |
| Lodging .....  | 13                  | 6                           | 4         | 4                  | 2,558                                   | 545                         | 492           | 492                |
| Mercantile and Service .....                                 | 46                  | 13                          | 4         | 8                  | 7,966                                   | 5,406                       | 2,723         | 2,727              |
| Office .....   | 124                 | 45                          | 33        | 38                 | 56,881                                  | 38,733                      | 34,471        | 34,464             |
| All Others .....   | 43                  | 9                           | 5         | 8                  | 7,152                                   | 2,563                       | 2,316         | 2,547              |
| <b>Year Constructed</b>                                      |                     |                             |           |                    |   |                             |               |                    |
| 1959 or Before .....   | 142                 | 52                          | 42        | 40                 | 43,829                                  | 29,060                      | 26,998        | 24,902             |
| 1960 to 1969 .....   | 70                  | 17                          | 13        | 15                 | 19,564                                  | 11,392                      | 10,715        | 10,916             |
| 1970 to 1979 .....   | 47                  | 18                          | 10        | 13                 | 17,737                                  | 11,923                      | 9,426         | 9,355              |
| 1980 to 1989 .....   | 38                  | 17                          | 10        | 14                 | 8,975                                   | 6,503                       | 4,908         | 5,429              |
| 1990 to 1993 .....   | 15                  | 5                           | 3         | 5                  | 4,774                                   | 2,852                       | 2,176         | 2,852              |
| <b>Federal Agency</b>  |                     |                             |           |                    |   |                             |               |                    |
| Department of Defense .....                                  | 22                  | 12                          | 8         | 10                 | 13,988                                  | 11,914                      | 11,729        | 10,698             |
| General Services Administration .....                        | 83                  | 36                          | 26        | 32                 | 46,205                                  | 29,362                      | 25,234        | 26,480             |
| United States Postal Service .....                           | 57                  | 15                          | 6         | 9                  | 9,392                                   | 6,596                       | 3,913         | 3,757              |
| Veterans Administration .....                                | 56                  | 20                          | 19        | 16                 | 13,306                                  | 9,510                       | 9,402         | 8,523              |
| All Others .....   | 94                  | 26                          | 19        | 20                 | 11,989                                  | 4,348                       | 3,945         | 3,995              |
| <b>Workers (main shift)</b>                                  |                     |                             |           |                    |   |                             |               |                    |
| Less than 50 .....   | 71                  | 13                          | 6         | 7                  | 4,102                                   | 436                         | 195           | 298                |
| 50 to 99 .....   | 39                  | 10                          | 7         | 9                  | 1,903                                   | 602                         | 472           | 576                |
| 100 to 499 .....   | 107                 | 26                          | 20        | 21                 | 13,632                                  | 4,120                       | 3,582         | 3,291              |
| 500 or More .....  | 95                  | 60                          | 45        | 50                 | 75,243                                  | 56,572                      | 49,974        | 49,289             |
| <b>Weekly Operating Hours</b>                                |                     |                             |           |                    |   |                             |               |                    |
| 48 or Fewer .....  | 51                  | 15                          | 8         | 12                 | 9,694                                   | 3,253                       | 2,424         | 3,186              |
| 49 to 60 .....   | 76                  | 26                          | 19        | 20                 | 25,540                                  | 16,534                      | 14,755        | 13,772             |
| 61 to 167 .....  | 60                  | 12                          | 6         | 10                 | 11,993                                  | 5,103                       | 4,581         | 5,068              |
| Open Continuously .....                                      | 125                 | 56                          | 45        | 45                 | 47,653                                  | 36,841                      | 32,463        | 31,428             |
| <b>Multibuilding Facility</b>                                |                     |                             |           |                    |   |                             |               |                    |
| Yes .....  | 176                 | 62                          | 50        | 48                 | 43,861                                  | 25,949                      | 23,440        | 21,708             |
| No .....   | 136                 | 47                          | 28        | 39                 | 51,018                                  | 35,782                      | 30,783        | 31,745             |
| <b>Energy Management Practices (more than one may apply)</b> |                     |                             |           |                    |   |                             |               |                    |
| Energy Management and Control System .....                   | 132                 | 62                          | 45        | 53                 | 61,891                                  | 45,906                      | 39,610        | 40,299             |
| Energy Conservation Programs <sup>1</sup> .....              | 99                  | 45                          | 34        | 38                 | 59,284                                  | 42,794                      | 39,087        | 39,676             |
| Energy Audit .....   | 99                  | 37                          | 30        | 32                 | 37,621                                  | 25,972                      | 24,329        | 23,964             |
| HVAC Maintenance Staff <sup>2</sup> .....                    | 97                  | 45                          | 37        | 38                 | 52,924                                  | 36,640                      | 33,334        | 31,884             |

<sup>1</sup> Building participates in any programs sponsored by the Federal Energy Management Program, in-house, utility, or third party.

<sup>2</sup> HVAC maintenance staff means at least one person spends at least half their working hours maintaining the heating/cooling equipment.

Notes: • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • These data are from 881 federally owned buildings having the following criteria: (1) located in Federal Regions 3, 6, or 9; (2) larger than 10,000 square feet; and (3) used for a commercial purpose, other than warehouse and storage. In addition, 9 out of 10 selected buildings were from agencies other than the Department of Defense. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, 1993 Federal Buildings Supplemental Survey.

**Table 3.23. Refrigeration Equipment in FBSS Buildings in Federal Region 6, Number of Buildings and Floorspace, 1993**

| Building Characteristics                                     | Number of Buildings |                             |           |                    | Total Floorspace (thousand square feet) |                             |               |                    |
|--|---------------------|-----------------------------|-----------|--------------------|---|-----------------------------|---------------|--------------------|
|  | All Buildings       | Any Refrigeration Equipment | Walk-in   | Cases and Cabinets | All Buildings                           | Any Refrigeration Equipment | Walk-in       | Cases and Cabinets |
| <b>All Buildings</b> .....                                   | <b>243</b>          | <b>70</b>                   | <b>40</b> | <b>44</b>          | <b>35,816</b>                           | <b>17,917</b>               | <b>12,381</b> | <b>14,125</b>      |
| <b>Building Floorspace (square feet)</b>                     |                     |                             |           |                    |   |                             |               |                    |
| 10,000 to 50,000 .....                                       | 107                 | 18                          | 9         | 10                 | 2,591                                   | 541                         | 297           | 309                |
| 50,001 to 200,000 .....                                      | 86                  | 28                          | 18        | 15                 | 9,548                                   | 3,104                       | 1,993         | 1,512              |
| Over 200,000 .....   | 50                  | 24                          | 13        | 19                 | 23,677                                  | 14,273                      | 10,091        | 12,304             |
| <b>Principal Building Activity</b>                           |                     |                             |           |                    |   |                             |               |                    |
| Education .....  | 6                   | 2                           | 1         | 1                  | 168                                     | 73                          | 55            | 55                 |
| Health Care .....  | 35                  | 21                          | 17        | 20                 | 12,094                                  | 11,045                      | 10,026        | 10,870             |
| Laboratory .....   | 29                  | 14                          | 6         | 3                  | 3,331                                   | 1,460                       | 489           | 134                |
| Lodging .....  | 16                  | 5                           | 4         | 2                  | 942                                     | 495                         | 432           | 212                |
| Mercantile and Service .....                                 | 49                  | 7                           | NC        | 4                  | 6,236                                   | 1,990                       | NC            | 1,309              |
| Office .....   | 76                  | 12                          | 5         | 8                  | 10,799                                  | 2,255                       | 827           | 1,200              |
| All Others .....   | 32                  | 9                           | 7         | 6                  | 2,247                                   | 599                         | 552           | 345                |
| <b>Year Constructed</b>                                      |                     |                             |           |                    |   |                             |               |                    |
| 1959 or Before .....   | 103                 | 30                          | 19        | 20                 | 13,258                                  | 5,477                       | 4,539         | 4,537              |
| 1960 to 1969 .....   | 38                  | 12                          | 6         | 7                  | 6,386                                   | 2,183                       | 898           | 1,099              |
| 1970 to 1979 .....   | 34                  | 12                          | 6         | 8                  | 6,175                                   | 3,463                       | 1,790         | 2,703              |
| 1980 to 1989 .....   | 57                  | 14                          | 7         | 7                  | 6,903                                   | 4,071                       | 2,431         | 3,064              |
| 1990 to 1993 .....   | 11                  | 2                           | 2         | 2                  | 3,095                                   | 2,723                       | 2,723         | 2,723              |
| <b>Federal Agency</b>  |                     |                             |           |                    |   |                             |               |                    |
| Department of Defense .....                                  | 22                  | 7                           | 3         | 6                  | 1,668                                   | 951                         | 835           | 936                |
| General Services Administration ...                          | 35                  | 4                           | 2         | 2                  | 7,888                                   | 1,651                       | 614           | 757                |
| United States Postal Service .....                           | 61                  | 8                           | NC        | 5                  | 7,027                                   | 2,261                       | NC            | 1,580              |
| Veterans Administration .....                                | 36                  | 21                          | 15        | 18                 | 11,375                                  | 10,288                      | 9,169         | 9,905              |
| All Others .....   | 89                  | 30                          | 20        | 13                 | 7,858                                   | 2,767                       | 1,763         | 948                |
| <b>Workers (main shift)</b>                                  |                     |                             |           |                    |   |                             |               |                    |
| Less than 50 .....   | 70                  | 12                          | 6         | 5                  | 2,548                                   | 597                         | 314           | 252                |
| 50 to 99 .....   | 44                  | 11                          | 7         | 6                  | 2,026                                   | 703                         | 520           | 283                |
| 100 to 499 .....   | 80                  | 23                          | 13        | 13                 | 9,029                                   | 2,639                       | 1,428         | 1,156              |
| 500 or More .....  | 49                  | 24                          | 14        | 20                 | 22,213                                  | 13,979                      | 10,119        | 12,434             |
| <b>Weekly Operating Hours</b>                                |                     |                             |           |                    |   |                             |               |                    |
| 48 or Fewer .....  | 39                  | 10                          | 7         | 7                  | 2,740                                   | 825                         | 614           | 487                |
| 49 to 60 .....   | 46                  | 13                          | 4         | 6                  | 6,460                                   | 2,131                       | 1,206         | 1,659              |
| 61 to 167 .....  | 78                  | 11                          | 4         | 3                  | 8,051                                   | 1,471                       | 211           | 83                 |
| Open Continuously .....                                      | 80                  | 36                          | 25        | 28                 | 18,565                                  | 13,491                      | 10,350        | 11,897             |
| <b>Multibuilding Facility</b>                                |                     |                             |           |                    |   |                             |               |                    |
| Yes .....  | 148                 | 52                          | 30        | 31                 | 24,441                                  | 12,886                      | 8,881         | 9,701              |
| No .....   | 95                  | 18                          | 10        | 13                 | 11,375                                  | 5,031                       | 3,499         | 4,424              |
| <b>Energy Management Practices (more than one may apply)</b> |                     |                             |           |                    |   |                             |               |                    |
| Energy Management and Control System .....                   | 96                  | 43                          | 23        | 29                 | 23,099                                  | 15,512                      | 10,672        | 12,539             |
| Energy Conservation Programs <sup>1</sup> .....              | 48                  | 23                          | 12        | 18                 | 13,513                                  | 10,486                      | 7,573         | 8,774              |
| Energy Audit .....   | 64                  | 14                          | 10        | 9                  | 11,690                                  | 5,304                       | 3,849         | 3,958              |
| HVAC Maintenance Staff <sup>2</sup> .....                    | 57                  | 15                          | 13        | 13                 | 15,538                                  | 7,950                       | 7,464         | 7,804              |

<sup>1</sup> Building participates in any programs sponsored by the Federal Energy Management Program, in-house, utility, or third party.

<sup>2</sup> HVAC maintenance staff means at least one person spends at least half their working hours maintaining the heating/cooling equipment.  
 NC = No cases in responding sample.

Notes: • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • These data are from 881 federally owned buildings having the following criteria: (1) located in Federal Regions 3, 6, or 9; (2) larger than 10,000 square feet; and (3) used for a commercial purpose, other than warehouse and storage. In addition, 9 out of 10 selected buildings were from agencies other than the Department of Defense. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, 1993 Federal Buildings Supplemental Survey.

**Table 3.24. Refrigeration Equipment in FBSS Buildings in Federal Region 9,  
Number of Buildings and Floorspace, 1993**

| Building Characteristics   | Number of Buildings |                             |           |                    | Total Floorspace<br>(thousand square feet) |                             |               |                    |
|--|---------------------|-----------------------------|-----------|--------------------|--|-----------------------------|---------------|--------------------|
|  | All Buildings       | Any Refrigeration Equipment | Walk-in   | Cases and Cabinets | All Buildings                              | Any Refrigeration Equipment | Walk-in       | Cases and Cabinets |
| <b>All Buildings</b> .....                                       | <b>326</b>          | <b>63</b>                   | <b>44</b> | <b>50</b>          | <b>44,316</b>                              | <b>18,781</b>               | <b>12,536</b> | <b>14,928</b>      |
| <b>Building Floorspace (square feet)</b>                         |                     |                             |           |                    |  |                             |               |                    |
| 10,000 to 50,000 .....   | 148                 | 14                          | 11        | 12                 | 3,858                                      | 336                         | 237           | 299                |
| 50,001 to 200,000 .....  | 123                 | 22                          | 17        | 19                 | 12,680                                     | 2,380                       | 1,883         | 2,188              |
| Over 200,000 .....   | 55                  | 27                          | 16        | 19                 | 27,778                                     | 16,065                      | 10,416        | 12,441             |
| <b>Principal Building Activity</b>                               |                     |                             |           |                    |  |                             |               |                    |
| Education .....  | 12                  | 2                           | 2         | 2                  | 628  | 94                          | 94            | 94                 |
| Health Care .....  | 48                  | 18                          | 15        | 15                 | 9,903                                      | 7,062                       | 6,811         | 6,349              |
| Laboratory .....   | 31                  | 4                           | 4         | 4                  | 2,601                                      | 325                         | 325           | 325                |
| Lodging .....  | 22                  | 4                           | 4         | 3                  | 1,220                                      | 131                         | 131           | 72                 |
| Mercantile and Service .....                                     | 63                  | 11                          | 6         | 8                  | 8,194                                      | 3,921                       | 2,372         | 2,793              |
| Office .....   | 92                  | 11                          | 3         | 9                  | 16,380                                     | 4,880                       | 1,919         | 4,435              |
| All Others .....   | 58                  | 13                          | 10        | 9                  | 5,390                                      | 2,368                       | 885           | 860                |
| <b>Year Constructed</b>  |                     |                             |           |                    |  |                             |               |                    |
| 1959 or Before .....   | 130                 | 19                          | 14        | 15                 | 13,553                                     | 3,577                       | 1,552         | 1,725              |
| 1960 to 1969 .....   | 55                  | 13                          | 8         | 11                 | 9,082                                      | 3,410                       | 2,083         | 3,018              |
| 1970 to 1979 .....   | 62                  | 14                          | 12        | 12                 | 12,041                                     | 6,298                       | 4,796         | 5,904              |
| 1980 to 1989 .....   | 65                  | 14                          | 9         | 11                 | 7,955                                      | 4,647                       | 3,788         | 3,963              |
| 1990 to 1993 .....   | 14                  | 3                           | 1         | 1                  | 1,684                                      | 848                         | (*)           | (*)                |
| <b>Federal Agency</b>  |                     |                             |           |                    |  |                             |               |                    |
| Department of Defense .....                                      | 78                  | 12                          | 7         | 9                  | 8,489                                      | 3,726                       | 1,758         | 2,187              |
| General Services Administration ...                              | 39                  | 8                           | 3         | 7                  | 12,505                                     | 4,332                       | 1,867         | 3,955              |
| United States Postal Service .....                               | 63                  | 9                           | 4         | 6                  | 8,387                                      | 3,785                       | 2,236         | 2,657              |
| Veterans Administration .....                                    | 56                  | 17                          | 15        | 13                 | 8,824                                      | 5,394                       | 5,228         | 4,623              |
| All Others .....   | 90                  | 17                          | 15        | 15                 | 6,111                                      | 1,544                       | 1,448         | 1,507              |
| <b>Workers (main shift)</b>                                      |                     |                             |           |                    |  |                             |               |                    |
| Less than 50 .....   | 93                  | 10                          | 10        | 8                  | 3,684                                      | 234                         | 234           | 197                |
| 50 to 99 .....   | 49                  | 2                           | 1         | 2                  | 2,161                                      | 66                          | 54            | 66                 |
| 100 to 499 .....   | 134                 | 24                          | 16        | 20                 | 14,017                                     | 3,029                       | 2,054         | 2,525              |
| 500 or More .....  | 50                  | 27                          | 17        | 20                 | 24,454                                     | 15,451                      | 10,194        | 12,140             |
| <b>Weekly Operating Hours</b>                                    |                     |                             |           |                    |  |                             |               |                    |
| 48 or Fewer .....  | 80                  | 8                           | 4         | 6                  | 4,822                                      | 762                         | 208           | 629                |
| 49 to 60 .....   | 65                  | 13                          | 6         | 12                 | 13,424                                     | 4,675                       | 1,785         | 4,302              |
| 61 to 167 .....  | 68                  | 6                           | 4         | 5                  | 5,706                                      | 1,091                       | 672           | 714                |
| Open Continuously .....  | 113                 | 36                          | 30        | 27                 | 20,364                                     | 12,253                      | 9,871         | 9,282              |
| <b>Multibuilding Facility</b>                                    |                     |                             |           |                    |  |                             |               |                    |
| Yes .....  | 200                 | 43                          | 33        | 33                 | 26,821                                     | 13,420                      | 10,412        | 9,956              |
| No .....   | 126                 | 20                          | 11        | 17                 | 17,495                                     | 5,361                       | 2,125         | 4,972              |
| <b>Energy Management Practices<br/>(more than one may apply)</b> |                     |                             |           |                    |  |                             |               |                    |
| Energy Management and Control System .....                       | 71                  | 25                          | 14        | 17                 | 18,231                                     | 12,657                      | 8,327         | 9,589              |
| Energy Conservation Programs <sup>1</sup> .....                  | 124                 | 34                          | 22        | 29                 | 24,699                                     | 12,274                      | 7,606         | 9,921              |
| Energy Audit .....   | 99                  | 26                          | 17        | 23                 | 17,444                                     | 9,337                       | 6,259         | 7,420              |
| HVAC Maintenance Staff <sup>2</sup> .....                        | 52                  | 20                          | 14        | 14                 | 14,570                                     | 8,294                       | 6,029         | 6,417              |

<sup>1</sup> Building participates in any programs sponsored by the Federal Energy Management Program, in-house, utility, or third party.

<sup>2</sup> HVAC maintenance staff means at least one person spends at least half their working hours maintaining the heating/cooling equipment.

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

Notes: • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • These data are from 881 federally owned buildings having the following criteria: (1) located in Federal Regions 3, 6, or 9; (2) larger than 10,000 square feet; and (3) used for a commercial purpose, other than warehouse and storage. In addition, 9 out of 10 selected buildings were from agencies other than the Department of Defense. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

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