## USDA

United States
Department of Agriculture

National
Agricultural Statistics
Service


Co St 2 (06)

## Capacity of Refrigerated Warehouses

## 2005 Summary

January 2006


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## General Refrigerated Warehouse Capacity Up 2 Percent

General refrigerated storage capacity in the United States totaled 3.21 billion gross cubic feet on October 1, 2005, an increase of 2 percent since the previous survey was conducted two years ago. While most of the increase was due to new construction, some was due to the increased survey coverage of existing warehouses. This was the 44th biennial survey of refrigerated warehouses. The five States with the largest gross general warehouse capacity (million cubic feet) were: California with 399; Florida, 253; Washington, 195; Wisconsin, 179 and Texas with 153.

Usable refrigerated space in general storages was 2.58 billion cubic feet, or 80 percent of the gross space. Usable freezer space was 78 percent of the usable refrigerated space with the remaining 22 percent used as cooler space. Convertible refrigerated space was classified as usable freezer space.

Public general warehouse capacity totaled 2.44 billion gross cubic feet in 2005, accounting for 76 percent of the general storage. Public general storage capacity increased 3 percent since 2003 and is 40 percent above the capacity of ten years ago.

Private and semiprivate general warehouse capacity totaled 772 million gross cubic feet, or 24 percent of the general gross refrigerated space.

Apple and pear storage totaled 721 million gross cubic feet, down 2 percent from October 1, 2003. Controlled atmosphere (CA) capacity totaled 173 million bushels, up 2 percent from 2003. The State of Washington had 82 percent of the Nation's CA capacity.

## Gross Refrigerated Storage Capacity by Principal Storage Activity, United States, 1987-2005

Billion Cubic Feet


Refrigerated Warehouses: Number by Type, State, and United States, October 1, 2005

| State | General Storages |  |  | Apple \& Pear Storages |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public | Private \& Semipryt | Total | Regular | CA | All ${ }^{1}$ |  |
|  | Number | Number | Number | Number | Number | Number | Number |
| AL | 13 | 8 | 21 |  |  |  | 21 |
| AK | 2 | 22 | 24 |  |  |  | 24 |
| AZ | 7 | 2 | 9 | 1 | 1 | 1 | 10 |
| AR | 15 | 6 | 21 |  |  |  | 21 |
| CA | 111 | 82 | 193 | 31 | 11 | 35 | 228 |
| CO | 8 | 3 | 11 |  |  |  | 11 |
| CT | 4 | 4 | 8 | 28 | 6 | 28 | 36 |
| DE | 4 | 6 | 10 | 2 |  | 2 | 12 |
| FL | 38 | 26 | 64 |  |  |  | 64 |
| GA | 32 | 27 | 59 |  |  |  | 59 |
| HI | 3 | 1 | 4 |  |  |  | 4 |
| ID | 7 | 15 | 22 | 7 | 5 | 7 | 29 |
| IL | 26 | 21 | 47 | 10 |  | 11 | 58 |
| IN | 20 | 6 | 26 | 32 | 4 | 34 | 60 |
| IA | 32 | 9 | 41 |  | 1 | 1 | 42 |
| KS | 11 | 1 | 12 | 1 |  | 1 | 13 |
| KY | 6 | 1 | 7 | 3 |  | 3 | 10 |
| LA | 16 | 9 | 25 |  |  |  | 25 |
| ME | 2 | 17 | 19 | 19 | 14 | 22 | 41 |
| MD | 7 | 4 | 11 | 5 | 3 | 6 | 17 |
| MA | 29 | 31 | 60 | 51 | 23 | 54 | 114 |
| MI | 24 | 18 | 42 | 126 | 91 | 155 | 197 |
| MN | 23 | 22 | 45 | 11 | 1 | 11 | 56 |
| MS | 10 | 3 | 13 |  |  |  | 13 |
| MO | 22 | 8 | 30 | 4 |  | 4 | 34 |
| MT | 2 | 4 | 6 |  |  |  | 6 |
| NE | 16 | 9 | 25 |  | 1 | 1 | 26 |
| NV | 2 | 2 | 4 |  |  |  | 4 |
| NH | 2 | 2 | 4 | 22 | 10 | 22 | 26 |
| NJ | 26 | 11 | 37 | 20 | 3 | 22 | 59 |
| NM | 1 | 6 | 7 | 1 |  | 1 | 8 |
| NY | 29 | 58 | 87 | 123 | 85 | 136 | 223 |
| NC | 15 | 6 | 21 | 13 | 2 | 14 | 35 |
| ND | 4 | 1 | 5 |  |  |  | 5 |
| OH | 18 | 5 | 23 | 60 | 14 | 61 | 84 |
| OK | 7 | 4 | 11 |  |  |  | 11 |
| OR | 15 | 24 | 39 | 64 | 18 | 67 | 106 |
| PA | 36 | 22 | 58 | 147 | 14 | 150 | 208 |
| RI |  | 3 | 3 | 5 | 2 | 7 | 10 |
| SC | 8 | 4 | 12 | 2 |  | 2 | 14 |
| SD | 2 | 3 | 5 |  |  |  | 5 |
| TN | 10 | 4 | 14 |  |  |  | 14 |
| TX | 33 | 30 | 63 |  |  |  | 63 |
| UT | 10 | 9 | 19 | 16 | 5 | 17 | 36 |
| VT |  | 3 | 3 | 11 | 5 | 12 | 15 |
| VA | 21 | 13 | 34 | 29 | 11 | 30 | 64 |
| WA | 43 | 35 | 78 | 185 | 204 | 241 | 319 |
| WV | 2 | 2 | 4 | 11 | 4 | 13 | 17 |
| WI | 46 | 69 | 115 | 16 | 3 | 16 | 131 |
| WY | 1 |  | 1 |  |  |  | 1 |
| US | 821 | 681 | 1,502 | 1,056 | 542 | 1,187 | 2,689 |

[^0]General Refrigerated Warehouses: Number by Size Group,
United States, October 1, 2005

| Size <br> (Cubic Feet) | Public | Private | All |
| :--- | :--- | :--- | :--- |
|  | Number | Number | Number |
| $0-499,999$ |  | 121 |  |
| $500,000-999,999$ |  | 104 | 362 |
| $1,00,000-2,499,999$ | 234 | 112 | 483 |
| $2,500,000-4,999,999$ | 221 | 113 | 216 |
| $5,000,000$ and Over |  | 141 |  |

Apple and Pear Refrigerated Warehouses: Number by Size Group, United States, October 1, 2005

| Size <br> (Bushels) | Regular $^{1}$ | CA $^{1}$ | All |
| :--- | :---: | :---: | :---: |
|  | Number | Number | Number |
| $0-49,999$ |  | 722 |  |
| $50,000-99,999$ |  | 111 | 181 |
| $100,000-49,999$ | 178 | 102 | 657 |
| $500,000-999,999$ |  | 11 | 59 |
| $1,000,000$ and Over |  |  | 45 |

${ }^{1}$ Number of operations with regular or CA storage. Many operators have both types in the same building, thus the count of regular plus CA does not equal "All".

Refrigerated Storage: Gross Capacity by Type of Warehouse, United States, October 1, 1987-05

| Year | Public | Private and <br> Semi-private | Total $^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Million Cubic Feet |  | Million Cubic Feet |  |
| 1987 |  | 1,306 | Million Cubic Feet |  |
| 1989 |  |  | 1,414 | 2,476 |
| 1991 |  | 1,600 | 1,158 | 2,571 |
| 1993 | 1,700 | 1,208 | 2,808 |  |
| 1995 |  | 1,765 | 1,272 | 2,972 |
| 1997 | 2,068 |  | 1,323 | 3,088 |
| 201 |  |  | 1,168 | 3,427 |
| 2003 | 2,266 |  | 1,501 | 3,606 |
| 2005 | 2,370 | 1,526 | 3,767 |  |

${ }^{1}$ Totals may not add due to rounding.

Refrigerated Space: By Type of Warehouse, United States, October 1, $2005{ }^{1}$

| Type | Number | Gross Space |  |  | Usable Space |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Cooler | Freezer | Total | Cooler | Freezer | Total |
|  |  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet |
| General |  |  |  |  |  |  |  |
| Public | 821 | 385,045 | 2,050,728 | 2,435,773 | 308,534 | 1,668,731 | 1,977,265 |
| Private \& |  |  |  |  |  |  |  |
| Semiprvt | 681 | 331,570 | 440,154 | 771,725 | 258,889 | 344,882 | 603,771 |
| Total | 1,502 | 716,615 | 2,490,883 | 3,207,497 | 567,423 | 2,013,613 | 2,581,036 |
| Apple |  |  |  |  |  |  |  |
| Apple |  |  |  |  |  |  |  |
| Public | 18 | 8,708 | 562 | 9,270 | 7,473 | 393 | 7,866 |
| Private \& |  |  |  |  |  |  |  |
| Semiprvt | 1,169 | 702,887 | 9,064 | 711,951 | 583,063 | 8,442 | 591,505 |
| Total | 1,187 | 711,595 | 9,626 | 721,221 | 590,536 | 8,835 | 599,371 |
| Total | 2,689 | 1,428,210 | 2,500,508 | 3,928,718 | 1,157,959 | 2,022,449 | 3,180,408 |

${ }^{1}$ Totals may not add due to rounding.

Gross Refrigerated Space: By Type of Warehouse, United States,
October 1, 1987-05 ${ }^{1}$

| Type | 1987 | 1989 | 1991 | 1993 | 1995 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet |
| General |  |  |  |  |  |
| Public | 1,285,860 | 1,391,901 | 1,572,879 | 1,678,461 | 1,741,585 |
| Private and Semiprivate | 676,369 | 603,402 | 624,005 | 658,893 | 674,649 |
| Total | 1,962,229 | 1,995,303 | 2,196,884 | 2,337,354 | 2,416,234 |
| Apple |  |  |  |  |  |
| Public | 19,750 | 21,945 | 27,227 | 21,645 | 23,419 |
| Private and Semiprivate | 494,404 | 554,150 | 584,296 | 613,093 | 647,993 |
| Total | 514,154 | 576,095 | 611,523 | 634,737 | 671,412 |
| Total, All | 2,476,384 | 2,571,397 | 2,808,407 | 2,972,092 | 3,087,646 |
|  | 1997 | 1999 | 2001 | 2003 | 2005 |
|  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet |
| General |  |  |  |  |  |
| Public | 2,043,908 | 2,146,643 | 2,251,943 | 2,357,080 | 2,435,773 |
| Private and Semiprivate | 683,372 | 756,505 | 788,853 | 802,454 | 771,725 |
| Total | 2,727,280 | 2,903,152 | 3,040,796 | 3,159,535 | 3,207,497 |
| Apple Public | 23,907 | 21,690 |  |  |  |
| Private and |  | 21,600 |  | 12,517 | 9,270 |
| Semiprivate | 675,838 | 680,736 | 712,412 | 723,499 | 711,951 |
| Total | 699,745 | 702,426 | 726,595 | 736,016 | 721,221 |
| Total, All | 3,427,025 | 3,605,578 | 3,767,394 | 3,895,551 | 3,928,718 |

${ }^{1}$ Totals may not add due to rounding.

General Storages: Gross and Usable Refrigerated Space
by State and United States, October 1, $2005^{12}$

| State | Gross Space |  |  | Usable Space |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public | Private \& Semiprvt | Total | Public | Private \& Semiprvt | Total |
|  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet |
| AL | 26,855 | 1,093 | 27,948 | 22,805 | 891 | 23,697 |
| AK |  |  | 2,046 |  | * | 1,877 |
| AZ | * | * | 14,050 | * | * | 11,729 |
| AR | 72,663 | 6,569 | 79,233 | 60,763 | 5,686 | 66,449 |
| CA | 274,173 | 125,322 | 399,495 | 221,283 | 101,407 | 322,690 |
| CO | 16,220 | 1,078 | 17,298 | 12,667 | 775 | 13,442 |
| CT |  |  | 5,348 |  | * | 3,855 |
| DE | 15,356 | 13,676 | 29,031 | 10,107 | 10,604 | 20,711 |
| FL | 115,302 | 137,543 | 252,845 | 94,057 | 113,653 | 207,710 |
| GA | 113,674 | 11,274 | 124,948 | 89,972 | 9,584 | 99,557 |
| HI |  | * |  |  |  |  |
| ID | 36,639 | 25,132 | 61,771 | 31,700 | 20,220 | 51,919 |
| IL | 125,086 | 26,403 | 151,489 | 94,609 | 20,279 | 114,888 |
| IN | * |  | 82,731 |  | * | 72,068 |
| IA | 78,344 | 14,308 | 92,651 | 64,802 | 10,502 | 75,304 |
| KS |  | * | 44,490 |  |  | 32,211 |
| KY | * | * | 23,021 | * | * | 19,890 |
| LA | * | * | 18,693 | * | * | 17,355 |
| ME | * | * | 12,355 | * | * | 7,011 |
| MD | 20,604 | 6,954 | 27,558 | 15,750 | 5,324 | 21,074 |
| MA | 70,719 | 16,090 | 86,808 | 62,279 | 11,684 | 73,963 |
| MI | 67,005 | 25,246 | 92,252 | 52,878 | 21,159 | 74,037 |
| MN | 51,789 | 22,919 | 74,708 | 40,117 | 17,084 | 57,201 |
| MS | * | * | 21,814 | * | * | 17,632 |
| MO | 106,187 | 7,450 | 113,637 | 87,570 | 6,047 | 93,617 |
| MT | * |  | 987 |  | * | 764 |
| NE | * | * | 49,141 | * | * | 37,825 |
| NV | * | * |  | * | * | * |
| NH | * | * | * | * | * | * |
| NJ | 73,252 | 8,957 | 82,209 | 58,723 | 7,108 | 65,831 |
| NM | * | * | 2,400 | * | * | 1,976 |
| NY | 59,089 | 36,250 | 95,339 | 48,713 | 30,431 | 79,144 |
| NC | 47,568 | 13,699 | 61,267 | 40,398 | 9,971 | 50,370 |
| ND |  | * | 9,246 | * | * | 7,045 |
| OH | 55,812 | 7,200 | 63,012 | 45,528 | 5,780 | 51,308 |
| OK | 11,228 | 3,960 | 15,188 | 8,744 | 3,239 | 11,983 |
| OR | 73,101 | 35,607 | 108,707 | 60,838 | 27,816 | 88,655 |
| PA | 133,029 | 16,061 | 149,090 | 113,581 | 12,455 | 126,036 |
| RI |  |  | * |  |  |  |
| SC | 20,463 | 1,879 | 22,342 | 16,593 | 1,540 | 18,133 |
| SD |  | * | 11,460 | * | * | 5,782 |
| TN | 25,783 | 8,122 | 33,905 | 20,847 | 5,057 | 25,904 |
| TX | 129,610 | 23,222 | 152,832 | 96,438 | 18,669 | 115,107 |
| UT | 20,954 | 11,581 | 32,535 | 17,685 | 9,329 | 27,015 |
| VT |  |  | * |  | * |  |
| VA | 41,168 | 19,071 | 60,239 | 35,100 | 16,506 | 51,606 |
| WA | 146,390 | 49,035 | 195,424 | 115,841 | 37,738 | 153,579 |
| WV |  |  | 2,420 |  | * | 1,096 |
| WI | 136,006 | 42,747 | 178,753 | 114,252 | 28,604 | 142,856 |
| WY |  |  |  |  |  |  |
| Oth Sts | 271,703 | 53,280 | 24,783 | 222,626 | 34,629 | 19,139 |
| US | 2,435,773 | 771,725 | 3,207,497 | 1,977,265 | 603,771 | 2,581,036 |

* Not published to avoid disclosure of individual operations. Included in "Other States" and U.S. totals.
${ }^{1}$ Totals may not add due to rounding.
${ }^{2}$ Includes frozen juice tank storage capacity.

General Storages: Gross and Usable Cooler Space
by State and United States, October 1, $2005^{12}$

| State | Gross Space |  |  | Usable Space |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public | Private \& Semiprvt | Total | Public | Private \& Semiprvt | Total |
|  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet |
| AL | * | * | 4,689 | * | * | 4,236 |
| AK |  | 163 | 163 |  | 495 | 495 |
| AZ | * | * | * | * | * | * |
| AR | * | * | * | * | * | * |
| CA | 56,698 | 80,998 | 137,696 | 45,816 | 64,976 | 110,792 |
| CO | * | * | 5,294 | * | * | 3,838 |
| CT | * | * |  | * | * |  |
| DE |  | * | * |  | * | * |
| FL | 17,337 | 75,711 | 93,047 | 14,301 | 64,990 | 79,291 |
| GA | 30,732 | 6,774 | 37,506 | 24,622 | 5,860 | 30,482 |
| HI |  |  |  | * | * |  |
| ID | * | * | 4,885 | * | * | 3,585 |
| IL | 16,334 | 10,036 | 26,370 | 11,687 | 8,137 | 19,824 |
| IN | 13,393 | 528 | 13,920 | 12,213 | 387 | 12,600 |
| IA | * | * | 18,129 | * | * | 13,458 |
| KS | * | * | 8,362 | * | * | 5,408 |
| KY | * | * | 6,384 | * | - | 4,883 |
| LA | * | * | 1,629 | * | * | 1,450 |
| ME | * | * | 261 | * | * | 226 |
| MD | * | * | 2,295 | * | * | 1,842 |
| MA | * | * | 15,297 | * | * | 12,327 |
| MI | 8,714 | 5,090 | 13,804 | 6,896 | 4,408 | 11,304 |
| MN | 7,313 | 8,082 | 15,395 | 5,972 | 5,347 | 11,319 |
| MS |  |  |  | * | * |  |
| MO | * | * | 31,562 | * | * | 26,105 |
| MT | * | * |  | * | * |  |
| NE | * | * | 8,833 | * | * | 6,190 |
| NV | * | * |  | * | * |  |
| NH | * | * | * | * | * | * |
| NJ | * | * | 27,300 | * | * | 21,523 |
| NM | * | * |  | * | * | * |
| NY | 11,595 | 15,923 | 27,518 | 9,111 | 13,109 | 22,220 |
| NC |  | * | 5,184 | * | * | 4,005 |
| ND | * |  | * | * |  | * |
| OH | 4,983 | 3,706 | 8,689 | 3,828 | 3,265 | 7,093 |
| OK |  |  | 4,327 |  |  | 3,555 |
| OR | 2,456 | 2,834 | 5,290 | 1,972 | 1,940 | 3,911 |
| PA |  | * | 25,964 |  | * | 21,049 |
| RI |  | * | * |  | * | * |
| SC | 378 | 392 | 769 | 312 | 270 | 581 |
| SD |  | * | * |  | * | * |
| TN | * | * | 429 | * * | * | 322 |
| TX | 17,712 | 13,303 | 31,016 | 13,236 | 10,640 | 23,876 |
| UT |  | * | 2,881 | * | * | 2,224 |
| VT |  | * | * |  | * | * |
| VA | 12,146 | 8,585 | 20,731 | 9,447 | 7,542 | 16,989 |
| WA | 6,435 | 4,000 | 10,435 | 5,050 | 2,593 | 7,642 |
| WI | 41,878 ${ }^{*}$ | 32,834 ${ }^{*}$ | 74,712 ${ }^{*}$ | 34,261 | 20,818 ${ }^{*}$ | 55,079 ${ }^{*}$ |
| WY |  |  | * | * |  | * * |
| Oth Sts | 136,938 | 62,615 | 25,850 | 109,812 | 44,113 | 17,699 |
| US | 385,045 | 331,570 | 716,615 | 308,534 | 258,889 | 567,423 |

* Not published to avoid disclosure of individual operations. Included in "Other States" and U.S. totals.
${ }^{1}$ Totals may not add due to rounding.
${ }^{2}$ Includes frozen juice tank storage capacity.

General Storages: Gross and Usable Freezer Space
by State and United States, October 1, $2005{ }^{\mathrm{P}_{2}}$

| State | Gross Space |  |  | Usable Space |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Public | Private \& Semiprvt | Total | Public | Private \& Semiprvt | Total |
|  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Cubic Feet |
| AL | * | * | 23,259 | * | * | 19,461 |
| AK | * | * | 1,883 | * | * | 1,382 |
| AZ | * | * |  | * | * |  |
| AR | * | * | * | * | * | * |
| CA | 217,475 | 44,323 | 261,799 | 175,467 | 36,431 | 211,897 |
| CO | * |  | 12,005 | * | * | 9,604 |
| CT | * | * |  | * | * | * |
| DE | * | * | * | * | * | * |
| FL | 97,965 | 61,833 | 159,798 | 79,755 | 48,663 | 128,419 |
| GA | 82,942 | 4,500 | 87,442 | 65,350 | 3,724 | 69,074 |
| HI |  |  |  |  | * |  |
| ID | * | * | 56,887 | * | * | 48,334 |
| IL | 108,752 | 16,367 | 125,119 | 82,922 | 12,142 | 95,064 |
| IN | * | * | 68,811 | * | * | 59,468 |
| IA | * | * | 74,522 | * | * | 61,845 |
| KS | * | * | 36,128 | * | * | 26,802 |
| KY | 16,637 |  | 16,637 | 15,007 |  | 15,007 |
| LA |  | * | 17,064 |  | * | 15,905 |
| ME | * | * | 12,094 | * | * | 6,784 |
| MD | * | * | 25,263 | * | * | 19,232 |
| MA | * | * | 71,512 | * | * | 61,636 |
| MI | 58,291 | 20,156 | 78,447 | 45,982 | 16,751 | 62,733 |
| MN | 44,476 | 14,837 | 59,313 | 34,145 | 11,737 | 45,882 |
| MS | * | * |  | * | * |  |
| MO | * | * | 82,075 | * | * | 67,512 |
| MT | * | * |  | * | * | * |
| NE | 34,467 | 5,840 | 40,307 | 28,367 | 3,268 | 31,635 |
| NV |  |  |  |  |  |  |
| NH | * | * | * | * | * | * |
| NJ | * | * | 54,909 | * | * | 44,308 |
| NM | * | * | * | * | * | * |
| NY | 47,494 | 20,327 | 67,821 | 39,602 | 17,322 | 56,924 |
| NC | * | * | 56,083 | * | 17,32 | 46,365 |
| ND | * | * | * | * | * | * |
| OH | 50,829 | 3,494 | 54,323 | 41,700 | 2,515 | 44,215 |
| OK | 10,524 | 337 | 10,861 | 8,129 | 299 | 8,428 |
| OR | 70,645 | 32,772 | 103,417 | 58,867 | 25,877 | 84,743 |
| PA |  | * | 123,126 |  | * | 104,987 |
| RI |  | * |  |  | * |  |
| SC | 20,085 | 1,487 | 21,573 | 16,281 | 1,270 | 17,551 |
| SD |  |  | * |  | * | * |
| TN | * | * | 33,476 | * | * | 25,582 |
| TX | 111,898 | 9,918 | 121,816 | 83,202 | 8,029 | 91,231 |
| UT |  | * | 29,654 | * | * | 24,791 |
| VT |  | * |  |  |  | * |
| VA | 29,022 | 10,486 | 39,508 | 25,653 | 8,964 | 34,617 |
| WA | 139,955 | 45,034 | 184,989 | 110,791 | 35,145 | 145,937 |
| WV |  |  |  |  |  | * |
| WI | 94,127 | 9,913 | 104,040 | 79,990 | 7,786 | 87,777 |
| WY |  |  |  |  |  |  |
| Oth Sts | 815,144 | 138,527 | 174,922 | 677,521 | 104,963 | 138,481 |
| US | 2,050,728 | 440,154 | 2,490,883 | 1,668,731 | 344,882 | 2,013,613 |

* Not published to avoid disclosure of individual operations. Included in "Other States" and U.S. totals.
${ }^{1}$ Totals may not add due to rounding.
${ }^{2}$ Includes frozen juice tank storage capacity.

| Apple and Pear Storages: Gross and Usable Refrigerated Space, Regular and CA Capacity by State and United States, October 1, 2005 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Refrigerated Space |  | Apple Storage Capacity |  |  |
| State | Gross | Usable | Regular | Controlled Atmosphere | Total |
|  | 1,000 Cubic Feet | 1,000 Cubic Feet | 1,000 Bushels | 1,000 Bushels | 1,000 Bushels |
| CA | 32,239 | 24,310 | 6,458 | 2,154 | 8,612 |
| CT | 1,240 | 1,042 | 245 | 115 | 360 |
| ID | 4,777 | 4,092 | 1,059 | 821 | 1,880 |
| IL | 1,098 | 946 | 262 | 8 | 270 |
| IN | 2,169 | 1,702 | 358 | 193 | 551 |
| KY | 117 | 97 | 33 |  | 33 |
| ME | 3,111 | 2,760 | 522 | 728 | 1,250 |
| MD | 1,390 | 1,115 | 173 | 354 | 527 |
| MA | 4,275 | 3,601 | 781 | 451 | 1,232 |
| MI | 33,717 | 29,278 | 4,853 | 7,175 | 12,028 |
| MN | 763 | , 573 | 224 | 33 | 257 |
| NH | 1,767 | 1,547 | 306 | 397 | 703 |
| NJ | 2,275 | 1,930 | 536 | 130 | 666 |
| NY | 32,839 | 29,032 | 4,432 | 7,717 | 12,149 |
| NC | 3,769 | 3,409 | 946 | 390 | 1,336 |
| OH | 3,570 | 2,918 | 824 | 333 | 1,157 |
| OR | 55,672 | 44,922 | 8,654 | 3,889 | 12,543 |
| PA | 19,619 | 15,746 | 4,008 | 2,066 | 6,074 |
| RI | 96 | 87 | 24 | 4 | 28 |
| UT | 3,310 | 2,639 | 430 | 414 | 844 |
| VT | 2,192 | 1,899 | 301 | 512 | 813 |
| VA | 12,194 | 10,508 | 1,832 | 1,951 | 3,783 |
| WA | 488,733 | 406,858 | 55,215 | 142,612 | 197,827 |
| WV | 6,744 | 5,559 | 1,689 | 338 | 2,027 |
| WI | 1,041 | 870 | 246 | 112 | 358 |
| Oth Sts | 2,505 | 1,932 | 457 | 7 | 464 |
| US | 721,221 | 599,371 | 94,865 | 172,904 | 267,769 |

* Not published to avoid disclosure of individual operations. Included in "Other States" and U.S. totals.
${ }_{2}^{1}$ Totals may not add due to rounding.
${ }^{2}$ Firms in this table store only apples or pears. Nearly all the storages are private and nearly all the space is cooler, thus public use and freezer space breakouts are not presented at the State level. See page 4 for U.S. totals.

General and Apple Storages: Gross Refrigerated Space by Type, October 1, 1987-2005

Million Cubic Feet

$\rightarrow$ Public $\rightarrow$ Private

## General Storages: Gross Refrigerated Space, 10 Largest States, October 1, 2005

State


General Refrigerated Warehouses: Number of Facilities by Size Group, United States, October 1, 2005


## Apple and Pear Refrigerated Warehouses: Number of

 Facilities by Size Group, United States, October 1, 2005Number of Facilities


## Definitions

General storages: Includes refrigerated facilities classified as general storages, plus facilities classified as storing only cheese, meat, or citrus concentrates.

Public general storages: Refrigerated facilities maintained for storing food for others at specified rates per unit.

Private and semiprivate general storages: Refrigerated facilities maintained by an operator to facilitate his principal function as a producer, processor, or manufacturer of food products. The space is used to store the owner's products, although some space may be used by others at specified rates per unit stored. Working space, chill rooms, and curing rooms in meat storages are not included in the storage statistics.

Apple and pear storages: Refrigerated facilities maintained exclusively for storing apples or pears. Storages operated by cooperatives for use by members are included as private storages.

Cooler space: Space that maintains temperatures between 0 and 50 degrees Fahrenheit.

Freezer space: Space that maintains temperatures at 0 degrees Fahrenheit or lower.

Controlled atmosphere (CA) space: Sealed cooler space in which the oxygen and carbon dioxide content is controlled to extend the storage life of apples or pears.

Gross space: Total area under refrigeration, measured from wall to wall and from floor to ceiling.

Usable space: Actual area used for storing commodities. Gross space less an allowance for aisles, posts, coils, blowers, etc.

Number of storages: Storages at different locations are counted separately even though operated by the same management.

## Survey Procedures and Reliability

Survey procedures: Questionnaires were mailed about the 20th of September to operators of over 3,000 public and private cold storage warehouses. Two thousand six hundred eighty-nine firms met the qualifications that their warehouses were artificially cooled to a temperature of 50 degrees Fahrenheit or lower, and normally stored food products for 30 days or more. The other firms who received questionnaires either did not qualify or the plants had ceased being cold storage facilities during the past two years. The list included specialized storage facilities meeting the 30 day requirement, such as fruit houses, dairy manufacturing plants, frozen fruit, fruit juice, and vegetable processors, and poultry and meat packing plants. Wholesalers, jobbers, packer branch houses, and frozen food processors whose entire inventories are turned over more than once a month were excluded. Firms that did not respond were mailed a second request and/or phoned or visited.

Estimating procedures: Data for reporting firms were added to estimates for non-reporting firms to obtain State and National totals. Estimates for non-reporting firms were set based on previous reports or administrative data.

Revision policy: These data are considered to be final and will not be revised.

Reliability: Usable reports were received from about 2,073 firms which represent about 71 percent of the total capacity tabulated. The numbers published should be considered to be minimum figures as there are cold storage firms that are not known to NASS. Special care in identifying individual plants minimizes duplication. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

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#### Abstract

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[^0]:    ${ }^{1}$ Firms with both regular and CA storage are counted once.

