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Capacity of Refrigerated Warehouses 2009 Summary

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Special Note

NASS is in the process of modifying report layouts in order to improve readability. This report issue is published using both layouts but all future issues will only be produced with the new layout, which is available on the NASS website: www.nass.usda.gov. This is the last issue using this layout.

General Refrigerated Warehouse Capacity Up 14 Percent

General refrigerated storage capacity in the United States totaled 3.79 billion gross cubic feet on October 1, 2009, an increase of 14 percent since the previous survey was conducted two years ago. While most of the increase from the previous survey was due to increased survey coverage of existing warehouses, some was due to new construction. This was the 46th biennial survey of refrigerated warehouses. The five States with the largest gross general warehouse capacity (million cubic feet) were: California with 495; Florida, 274; Pennsylvania, 227; Georgia, 218; and Texas, 198.

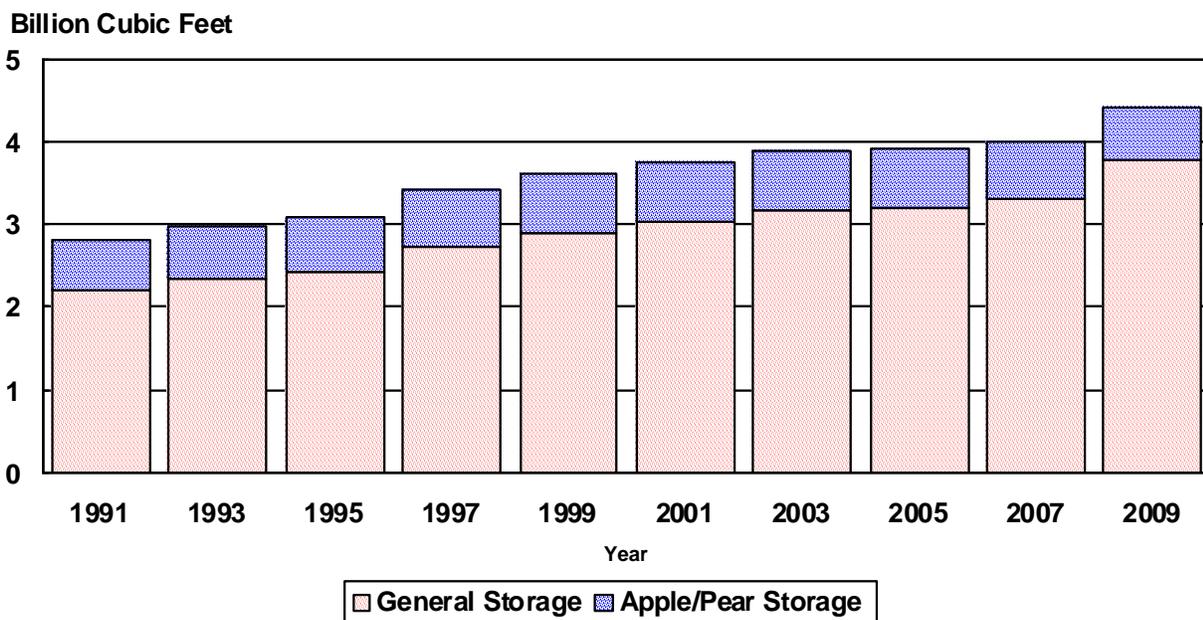
Usable refrigerated space in general storages was 3.10 billion cubic feet, or 82 percent of the gross space. Usable freezer space was 77 percent of the usable refrigerated space with the remaining 23 percent used as cooler space. Convertible refrigerated space was classified as usable freezer space.

Public general warehouse capacity totaled 2.90 billion gross cubic feet in 2009, accounting for 76 percent of the general storage. Public general storage capacity increased 16 percent since 2007 and is 35 percent above the capacity of ten years ago.

Private and semiprivate general warehouse capacity totaled 894 million gross cubic feet, or 24 percent of the general gross refrigerated space.

Apple and pear storage totaled 637 million gross cubic feet, down 8 percent from October 1, 2007. Controlled atmosphere (CA) capacity totaled 153 million bushels, down 9 percent from 2007. The State of Washington had 81 percent of the Nation's CA capacity.

Gross Refrigerated Storage Capacity by Principal Storage Activity, United States, October 1



**Refrigerated Warehouses: Number by Type, State,
and United States, October 1, 2009**

State	General Storages			Apple & Pear Storages			Total
	Public	Private & Semiprvt	Total	Regular	CA	All ¹	
	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
AL	14	8	22				22
AK	3	18	21				21
AZ	5	2	7	1	1	1	8
AR	20	5	25				25
CA	119	124	243	21	4	23	266
CO	6	4	10				10
CT	3	3	6	24	7	25	31
DE	5	5	10	2		2	12
FL	41	26	67				67
GA	41	35	76				76
HI	2		2				2
ID	7	13	20	4	3	4	24
IL	30	13	43	8	1	9	52
IN	23	5	28	24	3	25	53
IA	29	10	39				39
KS	9	2	11	1		1	12
KY	6	1	7	3		3	10
LA	13	8	21				21
ME	2	15	17	16	15	20	37
MD	6	6	12	5	2	5	17
MA	26	34	60	45	16	46	106
MI	23	26	49	115	75	146	195
MN	19	24	43	11	1	11	54
MS	9	2	11				11
MO	19	12	31	2		2	33
MT	2	4	6				6
NE	14	8	22		1	1	23
NV	2	3	5				5
NH		3	3	21	9	22	25
NJ	29	12	41	15	2	16	57
NM	1	5	6				6
NY	25	56	81	101	77	114	195
NC	16	3	19	14	1	14	33
ND	2	1	3				3
OH	17	5	22	52	14	52	74
OK	8	6	14				14
OR	15	40	55	48	18	54	109
PA	42	23	65	114	15	117	182
RI		3	3	4	2	6	9
SC	9	3	12	2		2	14
SD	2	3	5				5
TN	11	3	14				14
TX	48	34	82				82
UT	11	9	20	11	2	12	32
VT	1	2	3	12	5	13	16
VA	21	12	33	24	9	25	58
WA	39	25	64	146	164	193	257
WV		2	2	13	4	15	17
WI	44	73	117	15	3	15	132
WY							
US	839	739	1,578	874	454	994	2,572

¹ Firms with both regular and controlled atmosphere (CA) storage are counted once.

**General Refrigerated Warehouses: Number by Size Group,
United States, October 1, 2009**

Cubic Feet	Public	Private	All
	<i>Number</i>	<i>Number</i>	<i>Number</i>
0-499,999	113	383	496
500,000-999,999	91	122	213
1,000,000-2,499,999	209	126	335
2,500,000-4,999,999	222	80	302
5,000,000 and Over	204	28	232

**Apple and Pear Refrigerated Warehouses: Number by Size Group,
United States, October 1, 2009**

Bushels	Regular ¹	CA ¹	All ²
	<i>Number</i>	<i>Number</i>	<i>Number</i>
0-49,999	601	153	559
50,000-99,999	91	79	117
100,000-499,999	147	136	200
500,000-999,999	24	42	54
1,000,000 and Over	11	44	64

¹ Number of operations with regular or controlled atmosphere (CA) storage. Many operators have both types in the same building, thus the count of regular plus CA does not equal "All".

² Size categorization is based on the summation of regular and CA storage.

**Refrigerated Storage: Gross Capacity by Type of Warehouse,
United States, October 1, 1991-2009**

Year	Public	Private and Semi-private	Total ¹
	<i>Million Cubic Feet</i>	<i>Million Cubic Feet</i>	<i>Million Cubic Feet</i>
1991	1,600	1,208	2,808
1993	1,700	1,272	2,972
1995	1,765	1,323	3,088
1997	2,068	1,359	3,427
1999	2,168	1,437	3,606
2001	2,266	1,501	3,767
2003	2,370	1,526	3,896
2005	2,445	1,484	3,929
2007	2,506	1,506	4,012
2009	2,924	1,508	4,432

¹ Totals may not add due to rounding.

Refrigerated Space: By Type of Warehouse, United States, October 1, 2009 ¹

Type	Number	Gross Space			Usable Space		
		Cooler	Freezer	Total	Cooler	Freezer	Total
		<i>1,000 Cubic Feet</i>					
General							
Public	839	459,610	2,440,901	2,900,511	379,859	2,016,299	2,396,159
Private & Semiprvt	739	408,576	485,891	894,463	322,227	382,056	704,283
Total	1,578	868,185	2,926,790	3,794,974	702,086	2,398,357	3,100,440
Apple							
Public	23	22,535	941	23,474	20,401	733	21,134
Private & Semiprvt	971	609,983	3,138	613,118	512,422	2,437	514,856
Total	994	632,520	4,079	636,593	532,826	3,170	535,992
Total	2,572	1,500,705	2,930,869	4,431,567	1,234,912	2,401,527	3,636,432

¹ Totals may not add due to rounding.

Gross Refrigerated Space: By Type of Warehouse, United States, October 1, 1991-2009 ¹

Type	1991	1993	1995	1997	1999
	<i>1,000 Cubic Feet</i>				
General					
Public	1,572,879	1,678,461	1,741,585	2,043,908	2,146,643
Private and Semiprivate	624,005	658,893	674,649	683,372	756,505
Total	2,196,884	2,337,354	2,416,234	2,727,280	2,903,152
Apple					
Public	27,227	21,645	23,419	23,907	21,690
Private and Semiprivate	584,296	613,093	647,993	675,838	680,736
Total	611,523	634,737	671,412	699,745	702,426
Total, All	2,808,407	2,972,092	3,087,646	3,427,025	3,605,578
	2001	2003	2005	2007	2009
	<i>1,000 Cubic Feet</i>				
General					
Public	2,251,943	2,357,080	2,435,773	2,498,198	2,900,511
Private and Semiprivate	788,853	802,454	771,725	821,998	894,463
Total	3,040,796	3,159,535	3,207,497	3,320,194	3,794,974
Apple					
Public	14,183	12,517	9,270	8,170	23,474
Private and Semiprivate	712,412	723,499	711,951	683,798	613,118
Total	726,595	736,016	721,221	691,968	636,593
Total, All	3,767,394	3,895,551	3,928,718	4,012,162	4,431,567

¹ Totals may not add due to rounding.

**General Storages: Gross and Usable Refrigerated Space
by State and United States, October 1, 2009^{1 2}**

State	Gross Space			Usable Space		
	Public	Private & Semiprvt	Total	Public	Private & Semiprvt	Total
	<i>1,000 Cubic Feet</i>					
AL	32,902	1,115	34,017	28,183	912	29,096
AK	617	1,571	2,189	533	1,382	1,915
AZ	*	*	16,365	*	*	12,567
AR	88,948	6,252	95,200	74,897	5,405	80,302
CA	340,710	154,243	494,953	280,714	128,501	409,214
CO	*	*	25,978	*	*	21,172
CT	*	*	8,462	6,481	75	6,555
DE	*	*	29,131	*	*	23,452
FL	137,498	136,310	273,808	114,719	114,202	228,921
GA	182,685	35,736	218,421	153,140	30,351	183,490
HI	*	*	*	*	*	*
ID	36,566	23,602	60,168	31,400	19,089	50,489
IL	165,265	32,345	197,610	*	*	155,850
IN	*	*	93,061	*	*	77,172
IA	77,913	14,398	92,312	65,447	10,609	76,057
KS	*	*	48,589	*	*	35,084
KY	*	*	22,907	*	*	18,353
LA	11,864	3,818	15,681	9,847	3,507	13,354
ME	*	*	10,341	*	*	7,352
MD	28,359	13,681	42,040	21,196	12,405	33,601
MA	84,745	16,752	101,497	72,634	12,392	85,027
MI	78,628	24,659	103,287	64,071	20,291	84,362
MN	49,592	41,244	90,836	39,534	28,561	68,096
MS	*	*	23,742	*	*	19,482
MO	106,843	9,685	116,528	85,159	7,109	92,268
MT	*	*	1,020	*	*	769
NE	36,223	6,285	42,509	29,611	3,748	33,359
NV	*	*	*	*	*	*
NH		4,497	4,497		3,568	3,568
NJ	97,952	17,284	115,236	88,295	6,794	95,089
NM	*	*	2,442	*	*	2,078
NY	52,784	39,877	92,661	45,012	30,788	75,800
NC	59,161	9,572	68,733	50,099	8,603	58,702
ND	*	*	9,063	*	*	6,866
OH	56,923	6,830	63,752	49,041	5,380	54,420
OK	10,547	6,300	16,847	8,768	5,055	13,823
OR	73,884	53,144	127,028	60,026	43,376	103,401
PA	214,135	13,256	227,391	183,792	10,073	193,865
RI	*	*	*	*	*	*
SC	*	*	23,265	17,641	258	17,898
SD	*	*	13,740	*	*	8,158
TN	*	*	50,765	*	*	45,254
TX	160,324	37,414	197,738	121,845	30,074	151,919
UT	23,092	14,665	37,757	19,611	11,953	31,564
VT	*	*	*	*	*	*
VA	54,697	18,674	73,371	48,912	14,226	63,138
WA	151,545	42,994	194,539	120,390	33,124	153,514
WV		*	*		*	*
WI	150,768	43,635	194,403	129,795	29,319	159,115
WY			*			*
Oth Sts	335,341	64,625	21,094	375,366	73,153	14,909
US	2,900,511	894,463	3,794,974	2,396,159	704,283	3,100,440

* 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, 2009^{1 2}**

State	Gross Space			Usable Space		
	Public	Private & Semiprvt	Total	Public	Private & Semiprvt	Total
	<i>1,000 Cubic Feet</i>					
AL	2,914	104	3,018	2,501	73	2,574
AK	*	*	*	*	*	*
AZ	*	*	3,916	*	*	2,860
AR	*	*	*	*	*	*
CA	72,843	113,655	186,498	60,421	92,711	153,131
CO	*	*	2,521	*	*	1,923
CT	*	*	2,396	*	*	1,773
DE	*	*	*	*	*	*
FL	25,589	75,487	101,076	19,812	66,010	85,822
GA	42,895	17,236	60,131	36,494	14,756	51,250
HI	*	*	*	*	*	*
ID	*	*	*	*	*	3,540
IL	*	*	29,176	*	*	24,036
IN	*	*	14,106	*	*	*
IA	4,117	8,543	12,660	3,325	5,811	9,136
KS	*	*	8,148	*	*	5,290
KY	*	*	5,017	*	*	3,861
LA	1,402	146	1,547	1,255	136	1,391
ME	*	*	*	*	*	*
MD	*	*	4,249	*	*	3,809
MA	*	*	15,023	9,653	2,800	12,453
MI	8,634	5,758	14,392	6,687	5,028	11,715
MN	8,489	15,989	24,478	7,098	9,349	16,447
MS	*	*	2,760	*	*	2,103
MO	*	*	32,885	*	*	26,303
MT	*	*	441	*	*	339
NE	4,523	1,217	5,739	3,357	472	3,830
NV	*	*	*	*	*	*
NH	*	*	*	*	*	*
NJ	*	*	27,790	24,614	1,767	26,381
NM	*	*	*	*	*	*
NY	8,400	16,733	25,133	6,328	13,784	20,113
NC	*	*	7,874	*	*	7,521
ND	*	*	*	*	*	*
OH	*	*	8,501	*	*	6,950
OK	*	*	6,375	*	*	5,501
OR	4,213	15,065	19,278	3,124	12,880	16,004
PA	*	*	39,470	*	*	32,184
RI	*	*	*	*	*	*
SC	*	*	1,617	*	*	1,374
SD	*	*	*	*	*	*
TN	*	*	3,094	*	*	2,249
TX	20,804	21,194	41,998	15,059	17,206	32,265
UT	*	*	7,605	*	*	6,185
VT	*	*	*	*	*	*
VA	14,384	9,209	23,594	11,825	7,039	18,864
WA	*	*	16,171	6,260	5,142	11,402
WV	*	*	*	*	*	*
WI	48,901	33,570	82,471	41,810	21,332	63,142
WY	*	*	*	*	*	*
Oth Sts	191,502	74,670	27,037	120,236	45,931	28,365
US	459,610	408,576	868,185	379,859	322,227	702,086

* 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, 2009^{1 2}**

State	Gross Space			Usable Space		
	Public	Private & Semiprvt	Total	Public	Private & Semiprvt	Total
	<i>1,000 Cubic Feet</i>					
AL	29,988	1,010	30,999	25,683	839	26,522
AK	*	*	*	*	*	*
AZ	*	*	12,449	*	*	9,708
AR	*	*	*	*	*	*
CA	267,867	40,589	308,456	220,293	35,790	256,083
CO	*	*	23,457	*	*	19,248
CT	*	*	6,066	*	*	4,782
DE	*	*	*	*	*	*
FL	111,909	60,823	172,732	94,907	48,191	143,099
GA	139,790	18,500	158,290	116,646	15,595	132,241
HI	*	*	*	*	*	*
ID	*	*	*	*	*	46,949
IL	*	*	168,435	*	*	131,814
IN	*	*	78,954	*	*	*
IA	73,796	5,856	79,652	62,122	4,799	66,921
KS	*	*	40,441	*	*	29,795
KY	*	*	17,890	*	*	14,492
LA	10,462	3,672	14,134	8,592	3,371	11,963
ME	*	*	*	*	*	*
MD	*	*	37,791	*	*	29,792
MA	*	*	86,474	62,982	9,592	72,574
MI	69,994	18,901	88,895	57,383	15,264	72,647
MN	41,104	25,254	66,358	32,436	19,212	51,648
MS	*	*	20,982	*	*	17,379
MO	*	*	83,642	*	*	65,966
MT	*	*	580	*	*	430
NE	31,701	5,069	36,769	26,254	3,276	29,530
NV	*	*	*	*	*	*
NH	*	*	*	*	*	*
NJ	*	*	87,446	63,681	5,027	68,708
NM	*	*	*	*	*	*
NY	44,384	23,145	67,528	38,683	17,004	55,688
NC	*	*	60,859	*	*	51,182
ND	*	*	*	*	*	*
OH	*	*	55,252	*	*	47,470
OK	*	*	10,471	*	*	8,322
OR	69,671	38,079	107,750	56,902	30,495	87,397
PA	*	*	187,922	*	*	161,681
RI	*	*	*	*	*	*
SC	*	*	21,648	*	*	16,524
SD	*	*	*	*	*	*
TN	*	*	47,671	*	*	43,005
TX	139,520	16,220	155,740	106,786	12,867	119,654
UT	*	*	30,152	*	*	25,379
VT	*	*	*	*	*	*
VA	40,312	9,465	49,777	37,087	7,187	44,274
WA	*	*	178,368	114,130	27,981	142,112
WV	*	*	*	*	*	*
WI	101,867	10,065	111,932	87,985	7,988	95,973
WY	*	*	*	*	*	*
Oth Sts	1,268,536	209,243	220,828	803,747	117,578	197,405
US	2,440,901	485,891	2,926,790	2,016,299	382,056	2,398,357

* 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.

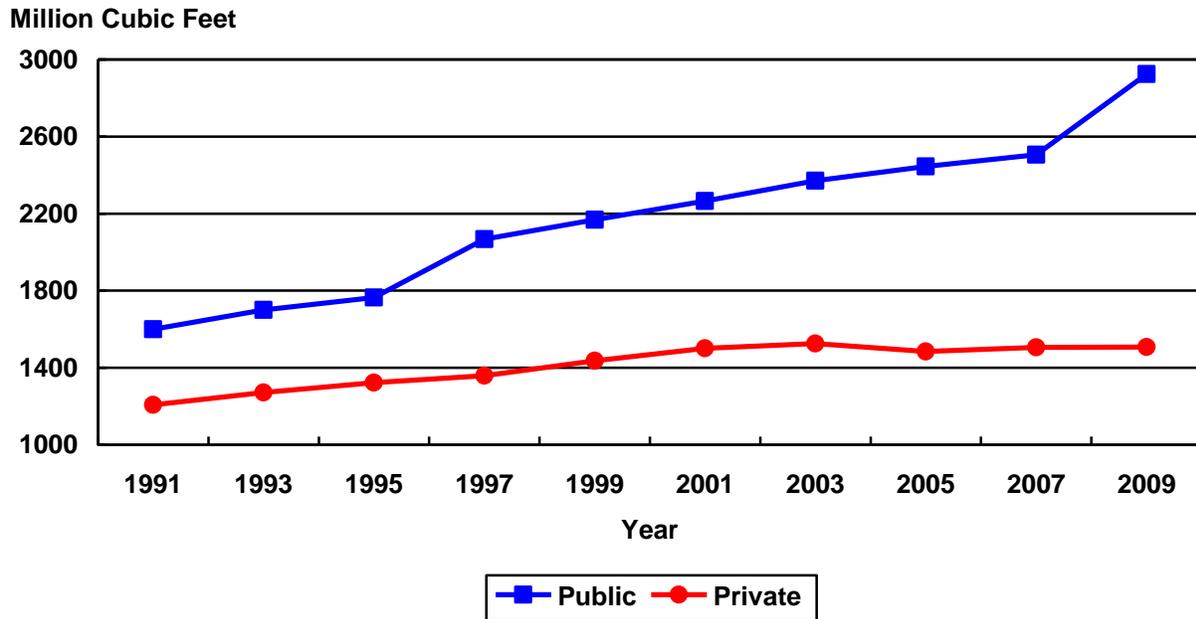
**Apple and Pear Storages: Gross and Usable Refrigerated Space, Regular
and CA Capacity by State and United States, October 1, 2009^{1 2}**

State	Refrigerated Space		Apple Storage Capacity		
	Gross	Usable	Regular	Controlled Atmosphere	Total
	<i>1,000 Cubic Feet</i>	<i>1,000 Cubic Feet</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
CA	19,261	14,761	3,002	2,125	5,127
CT	1,174	994	217	142	359
ID	3,467	3,018	764	586	1,350
IL	893	773	177	8	185
IN	1,907	1,481	273	203	477
KY	133	100	33		33
ME	2,505	2,220	418	526	944
MD	737	623	163	54	217
MA	2,775	2,332	622	345	967
MI	31,060	27,647	3,696	6,360	10,057
MN	1,144	945	321	33	354
NH	1,684	1,488	300	373	672
NJ	1,637	1,410	393	35	428
NY	34,448	31,029	4,273	8,647	12,920
NC	3,784	3,097	955	90	1,045
OH	3,233	2,734	711	330	1,041
OR	50,273	41,496	7,379	3,922	11,301
PA	22,325	17,468	3,193	2,290	5,482
UT	1,567	1,197	268	176	444
VT	2,401	1,715	208	320	528
VA	11,281	9,802	1,499	2,002	3,501
WA	428,434	361,133	46,357	124,054	170,411
WV	6,698	5,550	1,401	376	1,777
WI	1,102	910	248	112	360
Oth Sts	2,670	2,069	500	79	578
US	636,593	535,992	77,371	153,188	230,558

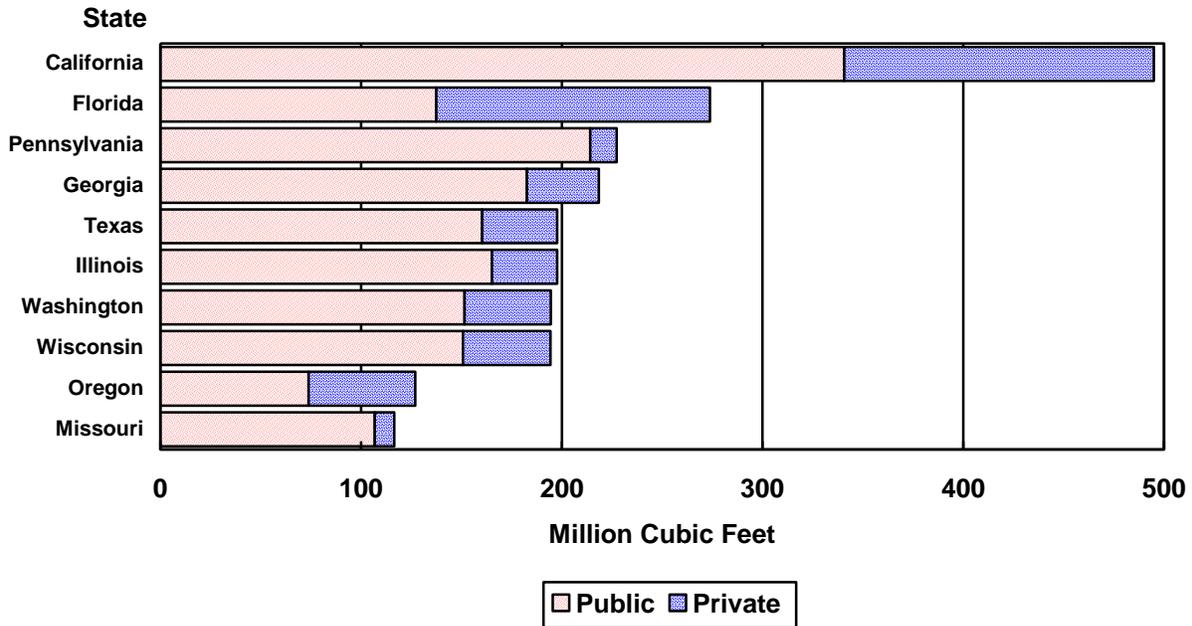
¹ Totals may not add due to rounding.

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.

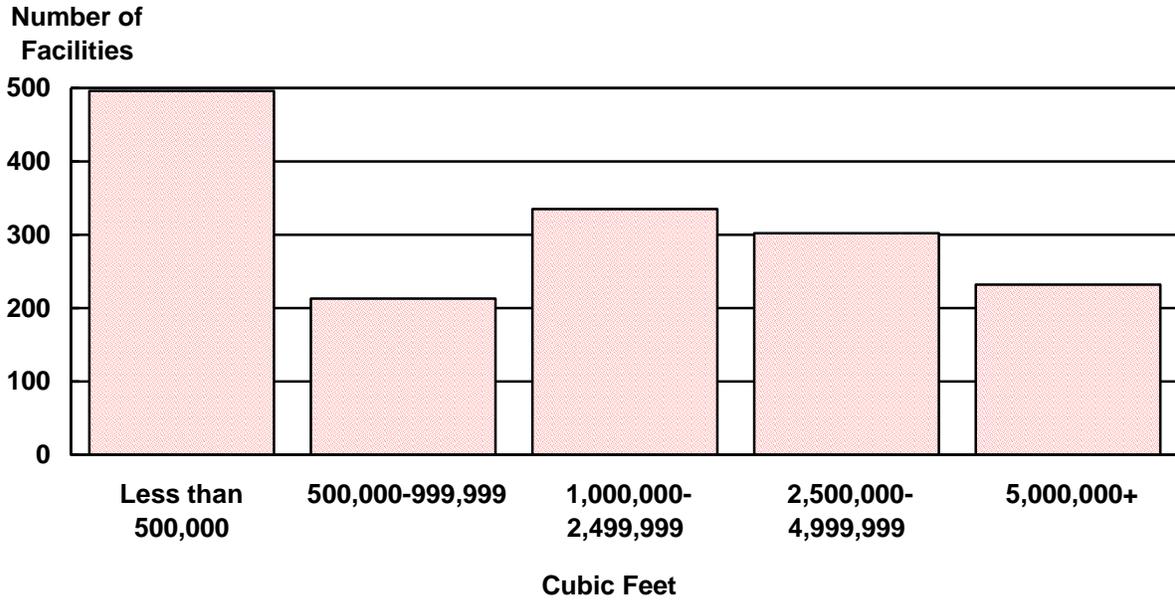
General and Apple Storages: Gross Refrigerated Space by Type, United States, October 1



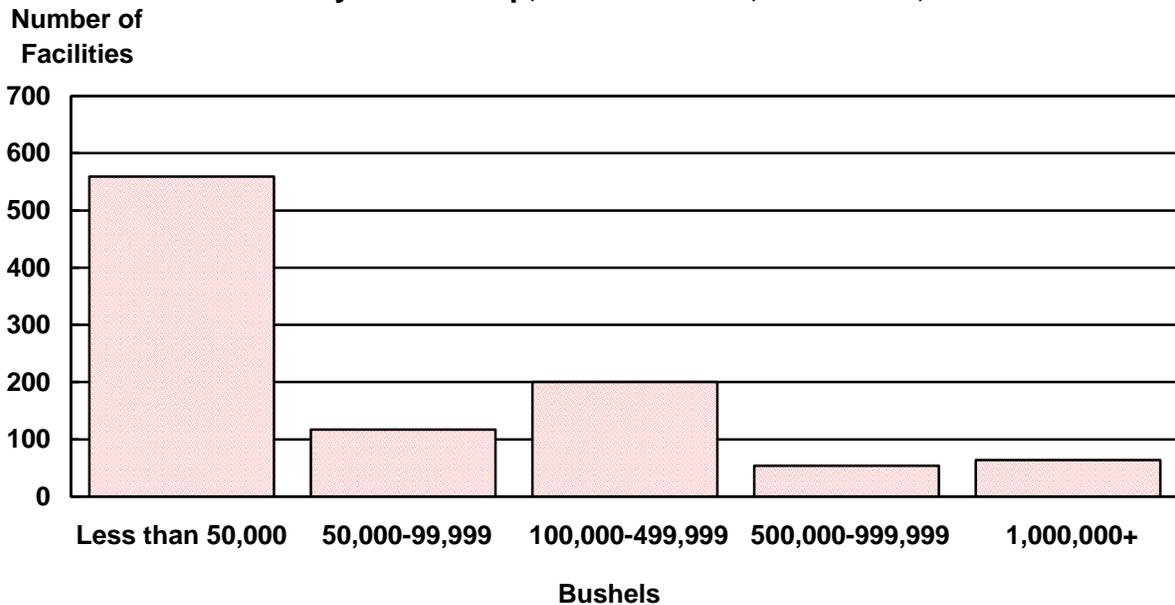
General Storages: Gross Refrigerated Space, 10 Largest States, October 1, 2009



**General Refrigerated Warehouses: Number of Facilities
by Size Group, United States, October 1, 2009**



**Apple and Pear Refrigerated Warehouses: Number of
Facilities by Size Group, United States, October 1, 2009**



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 2009, to operators of over 3,000 public and private cold storage warehouses. Two thousand five hundred and seventy-two 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 2,200 firms which represent about 86 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 a careful review of all reported data for consistency and reasonableness.

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information.

Dan Kerestes, Chief, Livestock Branch (202) 720-3570

Bruce Boess, Head, Poultry and Specialty Commodities Section..... (202) 720-4447

 Doug Bounds - Poultry Slaughter, Turkey Hatchery, Turkeys Raised (202) 690-3237

 David Colwell - Cold Storage (202) 720-8784

 Chris Hawthorn - Catfish Processing, Catfish Production, Trout Production,
 Census of Aquaculture, Egg Products, Mink (202) 720-0585

 Kim Linonis - Layers, Eggs (202) 690-8632

 Troy Marshall - Broiler Hatchery, Chicken Hatchery, Honey (202) 720-3244

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