



# **capacity of refrigerated warehouses**

**in the United States  
October 1, 1971**

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CAPACITY OF REFRIGERATED WAREHOUSES  
IN THE UNITED STATES  
OCTOBER 1, 1971

Capacity of U. S. refrigerated storages totaled 1,427 million cubic feet on October 1, 1971--largest of record, according to the Crop Reporting Board. This is the 26th in a biennial series of surveys.

Total gross storage space under refrigeration increased 74 million cubic feet in 2 years, while the number of storages decreased from 3,343 to 3,302. The East North Central, West North Central and East South Central Regions showed decreases in storage capacity from October 1, 1969. Greatest gain was in the Pacific Region where gross refrigerated space totaled 442 million cubic feet, 41 million more than on October 1, 1969.

Capacities and changes in other regions were as follows: South Atlantic--capacity 232 million cubic feet, up 30 million; Mountain--49 million, up 7 million; New England--75 million, up 5 million; West South Central--68 million, up 1 million; Middle Atlantic--191 million, up 1 million; East North Central--199 million, down 1 million; East South Central--31 million, down 1 million, and West North Central--135 million, down 8 million.

Public general storages: Refrigerated warehouse space maintained for public use continued an uptrend, unbroken since the first survey of 1921. The gross capacity totaled 740 million cubic feet, an increase of 10 million since 1969. The number of public warehouses totaled 771, a decline of 21 plants since 1969.

The Pacific and South Atlantic Regions showed the greatest gains in public warehouse space, with increases of 18 and 11 million cubic feet respectively. Other regions showing increases were: Mountain up 4 million and New England up 2 million. All other regions had less public storage capacity in 1971 than in 1969.

All States had at least 1 public warehouse. California had the most with 89 plants, totaling 86 million cubic feet of space. New York was second with 58 plants, totaling 43 million cubic feet of space.

Private and semi-private general storages: A gain of 52 million cubic feet brought private and semi-private storage space to 347 million cubic feet, 17 percent more than on October 1, 1969. The number of plants increased by 24 to 781. Gross storage space increased in the 2-year period in all of the 9 regions. The South Atlantic region increased 20 million cubic feet, Middle Atlantic 10 million, Pacific 8 million and East North Central 7 million.

Meat storages: Refrigerated space in meat storages operated by packers and processors declined to 28 million cubic feet by October 1, 1971, a loss of 8 million cubic feet since 1969. This industry's storage space continues to decline substantially. Storage space has declined 40 million cubic feet since 1955.

Apple storages: Refrigerated storage space maintained primarily for apples and pears totaled 311 million cubic feet on October 1, 1971. This is a gain of 7 percent from the 1969 survey. The largest increase was in the Pacific region, up 15 million cubic feet.

Controlled atmosphere (CA) capacity for apples or pears was 24.3 million bushels, compared with 21.6 million in 1969. Washington had 36 percent of the total; New York 16 percent; and Michigan 15 percent.

Cooler space: Gross cooler space (0° F. to 50° F.) totaled 610 million cubic feet, up 28 million from the 1969 total. Cooler space in public general storages declined 2 percent and space in meat storages dropped 25 percent. Cooler space increased 18 percent in private general storages, 5 percent in public apple storages, and 7 percent in private apple storages.

The 3 Pacific States accounted for 40 percent of the U. S. total cooler space in 1971, followed by the South Atlantic and East North Central regions with 16 percent each.

Freezer space: Gross freezer space (0° F. or below) totaled 817 million cubic feet, up 6 percent from 1969. This continues the upward trend in freezer space since 1945. Freezer space represented 57 percent of total refrigerated space in 1971, the same as in 1969.

The geographical distribution of freezer space showed about the same pattern as in 1969. The Pacific region continues to lead with 200 million cubic feet, followed by South Atlantic with 137 million, East North Central with 104 million, West North Central with 103 million and Middle Atlantic with 101 million.

Capacity by metropolitan areas: The 64 metropolitan areas with 3 or more refrigerated warehouses of all types and at least 2 million cubic feet of usable space had 877 storages with a gross capacity of 619 million cubic feet. These accounted for 27 percent of the total number of plants in the U. S., and 43 percent of the total capacity.

Chicago and Kansas City, each with 46 million cubic feet, were by far the leading metropolitan areas for the cold storage industry. Rochester and Los Angeles-Long Beach each had 25 million cubic feet. These four locations were also important centers for public general warehouses.

Forty seven metropolitan areas had 3 or more public warehouses with a total of at least 2 million cubic feet of usable space. The combined gross capacity of 426 million cubic feet in these warehouses was 57 percent of total U. S. capacity in public general warehouses.

## Definitions

Refrigerated warehouses: Facilities with space artificially cooled to 50° F. or lower, where food commodities are normally stored for 30 days or more. This report does not cover warehouses operated by wholesale distributors, grocery chains, or other businesses which normally store food products less than 30 days. Also excluded are locker plants, and refrigerated space operated by hotels, institutions, and military establishments.

Public general storages: Refrigerated storages operated to store various food commodities for others at specified rates per unit.

Private and semi-private general storages: Refrigerated storages operated primarily to store the owner's stocks of various food commodities, in connection with another activity such as production, processing or marketing.

Meat storages: Refrigerated storages operated by packers and processors primarily to store meat and related products for 30 days or more. Refrigerated working space, chill rooms and curing rooms are not included.

Apple storages: Refrigerated storages operated primarily to store apples or pears. Storages operated by cooperatives for use by members are included as private storages.

Cooler space: Space cooled to temperatures between 0° and 50° F.

Freezer space: Space cooled to 0° F. 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 space under refrigeration, measured from wall to wall and from floor to ceiling.

Usable space: Space usable for storing commodities, excluding aisles, posts, coils and usual clearance for air movement.

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

Metropolitan areas: Standard metropolitan statistical areas (SMSA's) as defined by U. S. Office of Management and Budget. They usually include the county in which the named city is located, plus any adjacent counties which are economically integrated with the city.

Table 1. Refrigerated space by type of warehouse, United States, October 1, 1971

Type of refrigerated warehouse 1/	Storages	Gross space			Usable space		
		Cooler	Freezer	Total	Cooler	Freezer	Total
		1,000 cu. ft.			1,000 cu. ft.		
General Storages:	Number						
Public	771	172,671	567,720	740,391	129,593	430,280	559,873
Private and semi-private	781	115,296	232,199	347,495	90,038	180,781	270,819
Meat Storages:							
Private	97	16,269	12,003	28,272	11,476	7,868	19,344
Apple Storages:							
Public	77	32,020	1,852	33,872	26,298	1,402	27,700
Private and semi-private	1,576	274,111	2,836	276,947	221,600	2,461	224,061
Total	3,302	610,367	816,610	1,426,977	479,005	622,792	1,101,797

1/ For definitions of terms used, see page 5.

Table 2. Gross refrigerated space by type of warehouse, United States, October 1, 1955-71 1/

Type of refrigerated warehouse	1955	1957	1959	1961	1963	1965	1967	1969	1971
	1,000 cu. ft.								
General Storages:									
Public	464,304	502,997	528,248	555,598	598,978	648,500	701,110	730,127	740,391
Private and semi-private	120,524	143,788	155,605	194,041	219,315	255,022	276,747	295,872	347,495
Meat Storages:									
Private	68,568	62,162	50,872	51,985	50,372	45,903	41,833	35,932	28,272
Apple Storages:									
Public	34,295	42,064	39,003	39,865	34,469	35,472	33,694	32,076	33,872
Private and semi-private	125,326	150,386	168,539	185,314	208,935	218,493	240,721	258,739	276,947
Total	813,017	901,397	942,267	1,026,803	1,112,069	1,203,390	1,294,105	1,352,746	1,426,977

1/ Alaska and Hawaii excluded for 1959 and prior years.

Table 3. Number of refrigerated warehouses, by type, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Public	:Private and :semiprivate		Public	: Private and : semiprivate	
N u m b e r						
Maine	2	23	1		42	68
New Hampshire	3	1			40	44
Vermont	1	1			22	24
Massachusetts	32	27	2	1	113	175
Rhode Island	2			1	8	11
Connecticut	3			1	50	54
New England	43	52	3	3	275	376
New York	58	109	23	15	172	377
New Jersey	24	24	4	3	52	107
Pennsylvania	32	19	3	3	84	141
Middle Atlantic	114	152	30	21	308	625
Ohio	20	20	1	2	153	196
Indiana	7	4	4		51	66
Illinois	26	7	5	6	32	76
Michigan	30	25		11	253	319
Wisconsin	45	90	5		3	143
E. North Central	128	146	15	19	492	800
Minnesota	17	18	4		10	49
Iowa	20	3	9			32
Missouri	24	4	3		1	32
North Dakota	1	1				2
South Dakota	2	1	2			5
Nebraska	9	2	2			13
Kansas	11	2	3		3	19
W. North Central	84	31	23		14	152
Delaware	2	8		1	2	13
Maryland	8	6	1	1	12	28
Washington, D.C.	1					1
Virginia	24	7	1	4	59	95
West Virginia	2	3	1	2	16	24
North Carolina	14	6		1	6	27
South Carolina	8	6			1	15
Georgia	39	21	1			61
Florida	35	47				82
South Atlantic	133	104	4	9	96	346
Kentucky	5	3	1		3	12
Tennessee	13	3	3		1	20
Alabama	7	3				10
Mississippi	4	3				7
E. South Central	29	12	4		4	49
Arkansas	11	4				15
Louisiana	8	9	1			18
Oklahoma	5	7	1			13
Texas	36	18	5			59
W. South Central	60	38	7			105
Montana	3	1				4
Idaho	6	13	1		3	23
Wyoming	1		1			2
Colorado	9	3	1			13
New Mexico	3	1			3	7
Arizona	7	2	1			10
Utah	7	4			29	40
Nevada	1	1				2
Mountain	37	25	4		35	101
Washington	32	50	4	19	266	371
Oregon	16	32			39	87
California	89	125	3	6	47	270
Pacific	139	207	7	25	352	748
48 States	765	767	97	77	1,576	3,282
Alaska	2	13				15
Hawaii	4	1				5
United States	771	781	97	77	1,576	3,302

Table 4. Gross refrigerated space, by type of warehouse, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Public	Private and semiprivate		Public	Private and semiprivate	
	1,000 cu. ft.					
Maine	*	10,258	*		3,523	18,870
New Hampshire	*	*			2,487	3,810
Vermont	*	*			1,781	2,604
Massachusetts	31,212	4,993	*	*	6,022	42,411
Rhode Island	*	*		*	161	1,840
Connecticut	*	*		*	2,447	5,225
New England	41,716	16,333	139	151	16,421	74,760
New York	42,914	26,640	2,825	5,385	21,130	98,893
New Jersey	30,534	7,896	304	1,098	2,938	42,769
Pennsylvania	24,196	9,741	830	385	13,892	49,045
Middle Atlantic	97,645	44,277	3,958	6,868	37,960	190,707
Ohio	20,465	6,268	*	*	4,032	31,633
Indiana	6,056	753	464		1,389	8,663
Illinois	46,919	5,434	*	*	1,967	58,164
Michigan	25,079	9,996		2,305	22,574	59,953
Wisconsin	20,283	17,627	2,531		33	40,474
E. North Central	118,802	40,078	6,159	3,853	29,995	198,887
Minnesota	18,050	7,519	1,977		372	27,918
Iowa	14,730	743	6,421			21,894
Missouri	23,915	3,573	*		*	28,516
North Dakota and South Dakota	614	*	*			4,501
Nebraska	7,347	245	501			8,092
Kansas	41,558	*	617		*	42,676
W. North Central	106,204	13,569	14,101		723	134,597
Delaware	*	3,784		*	*	4,571
Maryland and Washington, D. C.	9,911	2,185	*	*	1,839	14,116
Virginia	13,937	*	*	6,777	13,885	41,896
West Virginia	*	1,559	*	*	4,299	7,501
North Carolina	5,365	*		*	829	9,038
South Carolina	2,569	*			*	3,856
Georgia	31,211	*	*			38,667
Florida	44,163	68,309				112,472
South Atlantic	108,574	93,179	904	7,893	21,027	232,117
Kentucky	3,451	90	*		*	3,793
Tennessee	15,345	3,440	*		*	19,515
Alabama	5,478	186				5,664
Mississippi	1,976	369				2,345
E. South Central	26,250	4,085	472		510	31,317
Arkansas	8,356	554				8,910
Louisiana	5,246	*	*			6,201
Oklahoma	3,755	*	*			6,646
Texas	40,464	4,739	606			45,809
W. South Central	57,821	9,079	666			67,566
Montana and Wyoming	1,884	*	*			1,979
Idaho	8,958	18,071	*		*	29,017
Colorado	5,755	*	*			6,323
New Mexico	459	*			*	972
Arizona	3,709	*	*			4,133
Utah and Nevada	3,500	2,296			1,148	6,944
Mountain	24,265	21,719	160		3,224	49,368
Washington	39,694	27,302	588	10,910	121,279	199,773
Oregon	29,786	21,432			29,622	80,840
California	86,301	54,020	1,126	4,198	16,186	161,831
Pacific	155,781	102,754	1,714	15,108	167,087	442,444
48 States	737,057	345,613	28,272	33,872	276,947	1,421,761
Alaska	*	*				1,998
Hawaii	*	*				3,218
United States	740,391	347,495	28,272	33,872	276,947	1,426,977

\* Not shown to avoid disclosure of individual plant reports. State data included in regional and United States totals.



Table 5. Usable refrigerated space, by type of warehouse, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Public	Private and semiprivate		Public	Private and semiprivate	
	1,000 cu. ft.					
Maine	*	7,519	*		2,844	14,474
New Hampshire	*	*			2,064	3,141
Vermont	*	*			1,472	2,082
Massachusetts	22,751	3,529	*	*	4,908	31,329
Rhode Island	*	*		*	132	1,302
Connecticut	*	*		*	2,037	4,085
New England	30,814	11,922	97	123	13,457	56,413
New York	32,576	20,467	2,235	4,211	17,140	76,629
New Jersey	22,285	6,237	246	939	2,387	32,094
Pennsylvania	16,983	6,850	563	302	11,105	35,803
Middle Atlantic	71,845	33,554	3,044	5,452	30,631	144,526
Ohio	15,959	4,294	*	*	3,342	24,363
Indiana	4,202	596	318		1,081	6,197
Illinois	33,878	3,393	*	*	1,636	41,201
Michigan	18,727	8,217		1,747	18,860	47,551
Wisconsin	15,794	13,733	1,591		25	31,143
E. North Central	88,560	30,233	3,841	2,877	24,944	150,455
Minnesota	13,749	5,373	1,246		310	20,678
Iowa	11,555	522	4,350		*	16,427
Missouri	17,209	2,224	*		*	20,214
North Dakota and South Dakota	426	*	*			3,835
Nebraska	5,022	173	395			5,590
Kansas	32,799	*	396		*	33,623
W. North Central	80,760	9,630	9,362		615	100,367
Delaware	*	2,920		*	*	3,498
Maryland and Washington, D. C.	7,221	1,548	*	*	1,534	10,443
Virginia	10,232	*	*	5,761	11,245	33,225
West Virginia	*	1,321	*	*	3,553	6,225
North Carolina	4,524	*		*	722	7,752
South Carolina	1,911	*			*	2,821
Georgia	22,806	*	*			28,134
Florida	36,775	57,691				94,466
South Atlantic	84,455	77,381	745	6,790	17,193	186,564
Kentucky	2,641	63	*		*	2,892
Tennessee	10,633	2,814	*		*	13,935
Alabama	4,075	154				4,229
Mississippi	1,410	275				1,685
E. South Central	18,759	3,306	293		383	22,741
Arkansas	7,005	423				7,428
Louisiana	3,599	*	*			4,326
Oklahoma	2,609	*	*			4,885
Texas	28,129	3,680	428			31,997
W. South Central	41,342	6,820	474			48,636
Montana and Wyoming	1,401	*	*			1,470
Idaho	7,230	14,868	*		*	23,354
Colorado	4,502	*	*			4,950
New Mexico	378	*			*	780
Arizona	2,976	*				3,346
Utah and Nevada	2,657	1,868			967	5,492
Mountain	19,144	17,838	119		2,291	39,392
Washington	32,587	20,879	429	8,828	98,463	161,186
Oregon	25,934	16,166			22,747	64,847
California	63,582	41,650	934	3,630	13,337	123,133
Pacific	122,103	78,695	1,363	12,458	134,547	349,166
48 States	557,782	269,379	19,344	27,700	224,061	1,098,266
Alaska	*	*				1,513
Hawaii	*	*				2,018
United States	559,873	270,819	19,344	27,700	224,061	1,101,797

\* Not shown to avoid disclosure of individual plant reports. State data included in regional and U. S. totals.

Table 6. Gross cooler space by type of warehouse, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Public	Private and semiprivate		Public	Private and semiprivate	
	1,000 cu. ft.					
Maine	*	2,294	*		3,523	5,985
New Hampshire	*	*			2,472	2,568
Vermont	*	*			1,781	1,921
Massachusetts	2,003	582	*	*	6,021	8,724
Rhode Island	*	*		*	160	614
Connecticut	*	*		*	2,441	3,567
New England	3,815	2,951	64	151	16,398	23,379
New York	16,271	11,957	1,689	4,225	21,027	55,170
New Jersey	6,556	2,089	285	1,098	2,920	12,948
Pennsylvania	5,885	1,780	741	350	13,208	21,964
Middle Atlantic	28,712	15,826	2,715	5,673	37,155	90,081
Ohio	5,634	1,048	*	*	4,032	11,482
Indiana	1,312	*	*		1,389	3,318
Illinois	16,005	*	1,176	*	1,963	21,368
Michigan	7,163	1,540		2,305	22,563	33,571
Wisconsin	11,894	12,203	946		33	25,075
E. North Central	42,008	15,997	2,985	3,846	29,980	94,816
Minnesota	1,860	2,451	*		372	5,521
Iowa	1,269	*	3,049		*	4,385
Missouri	6,937	1,656	*		*	9,182
North Dakota and South Dakota	44	6	3,248			3,298
Nebraska	1,090	*	*			1,354
Kansas	6,746	75	*		*	7,479
W. North Central	17,946	4,285	8,264		723	31,218
Delaware	*	531		*	25	726
Maryland and Washington, D. C.	1,073	*	*	*	1,839	3,168
Virginia	7,140	*	*	6,584	13,271	32,457
West Virginia	*	1,118	*	*	4,299	6,843
North Carolina	1,529	2,148		*	*	4,566
South Carolina	208	*			*	492
Georgia	16,077	*	*			19,439
Florida	5,073	22,651				27,724
South Atlantic	31,722	34,860	731	7,689	20,413	95,415
Kentucky	1,148	*	*		110	1,353
Tennessee	1,991	*	*		400	2,678
Alabama	2,753	186				2,939
Mississippi	573	10				583
E. South Central	6,465	320	258		510	7,553
Arkansas	700	176				876
Louisiana	651	*	*			868
Oklahoma	396	*	*			892
Texas	12,617	2,201	310			15,128
W. South Central	14,364	3,062	338			17,764
Montana and Wyoming	85	*	*			125
Idaho	179	1,084			1,968	3,231
Colorado	773	*	*			804
New Mexico	89	186			108	383
Arizona	458	*	*			563
Utah and Nevada	471				1,148	1,619
Mountain	2,055	1,412	34		3,224	6,725
Washington	1,319	3,099	248	10,463	120,654	135,783
Oregon	3,620	2,586			29,622	35,828
California	19,939	30,358	634	4,198	15,433	70,562
Pacific	24,878	36,043	882	14,661	165,709	242,173
48 States	171,965	114,756	16,269	32,020	274,111	609,121
Alaska	*	*				420
Hawaii	*	*				825
United States	172,671	115,296	16,269	32,020	274,111	610,367

\* Not shown to avoid disclosure of individual plant reports. State data included in regional and U. S. totals.

Table 7. Usable cooler space, by type of warehouse, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Total	Private and semiprivate		Public	Private and semiprivate	
	1,000 cu. ft.					
Maine	*	1,648	*		2,844	4,618
New Hampshire	*	*			2,052	2,139
Vermont	*	*			1,472	1,576
Massachusetts	1,483	418	*	*	4,907	6,908
Rhode Island	*	*			131	456
Connecticut	*	*			2,032	2,918
New England	2,867	2,137	50	123	13,438	18,615
New York	12,519	9,538	1,364	3,341	17,058	43,820
New Jersey	5,016	1,611	230	939	2,375	10,171
Pennsylvania	4,011	1,363	504	277	10,466	16,621
Middle Atlantic	21,546	12,512	2,098	4,557	29,899	70,612
Ohio	4,257	869	*	*	3,342	8,968
Indiana	852	*	*		1,031	2,387
Illinois	12,028	*	728	*	1,634	15,806
Michigan	5,182	1,193		1,747	18,851	25,973
Wisconsin	8,963	9,130	603		25	18,721
E. North Central	31,282	11,723	2,045	2,872	24,933	72,855
Minnesota	1,408	1,562	*		*	3,842
Iowa	978	*	*		*	3,171
Missouri	4,751	954	*		*	6,129
North Dakota and South Dakota	38	5	2,016			2,059
Nebraska	781	*	*			989
Kansas	5,328	*	*		*	5,888
W. North Central	13,284	2,585	5,594		615	22,078
Delaware	*	448		*	19	612
Maryland and Washington, D. C.	794	*	*	*	1,534	2,516
Virginia	5,387	*	*	5,606	10,693	26,437
West Virginia	*	1,037	*	793	3,553	5,808
North Carolina	1,357	1,932		*	*	4,061
South Carolina	153	*			*	382
Georgia	12,097	*	*			14,510
Florida	4,060	18,963				23,023
South Atlantic	24,298	29,178	609	6,623	16,642	77,349
Kentucky	882	60	*		*	1,035
Tennessee	1,424	30	*		*	1,886
Alabama	2,047	154				2,201
Mississippi	413	7				420
E. South Central	4,766	251	142		383	5,542
Arkansas	525	143				668
Louisiana	465	*	*			625
Oklahoma	284	*	*			641
Texas	8,835	1,603	191			10,629
W. South Central	10,109	2,240	214			12,563
Montana and Wyoming	66	*	*			91
Idaho	132	741			1,245	2,118
Colorado	653	*	*			673
New Mexico	73	149			79	301
Arizona	303	*	*			402
Utah and Nevada	389				967	1,356
Mountain	1,615	1,016	18		2,291	4,941
Washington	974	2,333	177	8,493	97,789	109,766
Oregon	3,179	2,193			22,747	28,119
California	15,215	23,443	527	3,630	12,864	55,679
Pacific 48 States	19,368	27,969	704	12,123	133,400	193,564
Alaska	*	*				343
Hawaii	*	*				542
United States	129,593	90,038	11,476	26,298	221,600	479,005

\* Not shown to avoid disclosure of individual plant reports. State data included in regional and U.S. totals.

Table 8. Gross freezer space, by type of warehouse, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Public	Private and semiprivate		Public	Private and semiprivate	
			1,000 cu. ft.			
Maine	*	7,964	*			12,884
New Hampshire	*	*			*	1,242
Vermont	676	*			*	684
Massachusetts	29,209	4,411	*		*	33,688
Rhode Island	*				*	1,226
Connecticut	*				*	1,658
New England	37,901	13,382	75		24	51,382
New York	26,643	14,683	1,135	1,159	102	43,722
New Jersey	23,978	5,806	19		18	29,821
Pennsylvania	18,311	7,961	89	35	685	27,081
Middle Atlantic	68,932	28,450	1,243	1,194	805	100,624
Ohio	14,832	*	*			20,151
Indiana	4,744	*	*			5,345
Illinois	30,913	4,593	1,279	*	*	36,795
Michigan	17,916	*			*	26,383
Wisconsin	8,389	5,425	1,585			15,399
E. North Central	76,794	24,083	3,175	6	15	104,073
Minnesota	16,190	*	*			22,397
Iowa	13,461	*	*			17,509
Missouri	16,979	*	*			19,334
North Dakota and South Dakota						
Nebraska	560	1,230	412			2,202
Kansas	6,256	*	*			6,739
W. North Central	34,812	*	*			35,197
Delaware	88,258	9,283	5,837			103,378
Maryland and Washington, D.C.	*	3,252		*		3,844
Virginia	8,737	*	*			11,947
West Virginia	6,797	*	*	193	614	9,440
North Carolina	*	441	*			658
South Carolina	3,835	636				4,471
Georgia	2,362	1,004				3,366
Florida	15,134	*	*			19,229
South Atlantic	39,090	45,658				84,748
Kentucky	76,851	58,860	174	204	614	136,703
Tennessee	2,303	*	*			2,440
Alabama	13,354	*	*			16,837
Mississippi	2,725					2,725
E. South Central	1,403	359				1,762
Arkansas	19,785	3,765	214			23,764
Louisiana	7,656	377				8,033
Oklahoma	4,595	*	*			5,333
Texas	3,359	*	*			5,754
W. South Central	27,848	2,538	296			30,682
Montana and Wyoming	43,458	6,016	328			49,802
Idaho						
Colorado	1,799	*	*			1,854
New Mexico	8,779	16,987	20			25,786
Arizona	4,982	*	*			5,519
Utah and Nevada	370	218				588
Mountain	3,251	*	*			3,570
Washington	3,029	2,296				5,325
Oregon	22,210	20,306	126			42,642
California	38,375	24,203	340	447	625	63,990
Pacific	26,166	18,846				45,012
48 States	66,362	23,663	492		754	91,271
Alaska	130,903	66,712	832	447	1,379	200,273
Hawai	565,092	230,857	12,003	1,852	2,836	812,640
United States						
	*	*				1,577
	*	*				2,393
	567,720	232,199	12,003	1,852	2,836	816,610

\* Not shown to avoid disclosure of individual plant reports. State data included in regional and United States totals.

Table 9. Usable freezer space, by type of warehouse, United States, October 1, 1971

State and region	General storages		Meat storages	Apple storages		Total
	Public	Private and semiprivate		Public	Private and semiprivate	
			1,000 cu. ft.			
Maine	*	5,871	*			9,857
New Hampshire	*	*			*	1,001
Vermont	*	*				506
Massachusetts	21,267	3,111	*		*	24,421
Rhode Island	*				*	847
Connecticut	*				*	1,167
New England	27,947	9,785	48		19	37,799
New York	20,057	10,929	871	870	81	32,808
New Jersey	17,269	4,625	16		12	21,922
Pennsylvania	12,973	5,488	59	25	639	19,184
Middle Atlantic	50,299	21,042	946	895	732	73,914
Ohio	11,702	*	*			15,396
Indiana	3,351	*	*			3,811
Illinois	21,850	2,973	564	*	*	25,394
Michigan	13,545	*			*	20,578
Wisconsin	6,831	4,603	988			12,422
E. North Central	57,279	18,510	1,796	5	11	77,601
Minnesota	12,341	*	*			16,836
Iowa	10,577	*	*			13,256
Missouri	12,458	*	*			14,085
North Dakota and South Dakota						
Nebraska	388	1,127	263			1,778
Nebraska	4,240	*	*			4,600
Kansas	27,471	*	*			27,734
W. North Central	67,475	7,045	3,769			78,289
Delaware	*	2,472		*		2,887
Maryland and Washington, D. C.						
Washington, D. C.	6,427	*	*			7,926
Virginia	4,845	*	*	156	552	6,789
West Virginia	*	284	*			418
North Carolina	3,167	523				3,690
South Carolina	1,758	682				2,440
Georgia	10,709	*	*			13,625
Florida	32,715	38,728				71,443
South Atlantic	60,157	48,205	137	167	552	109,218
Kentucky	1,759	*	*			1,858
Tennessee	9,209	*	*			12,048
Alabama	2,028					2,028
Mississippi	997	267				1,264
E. South Central	13,993	3,055	150			17,198
Arkansas	6,480	280				6,760
Louisiana	3,134	*	*			3,701
Oklahoma	2,325	*	*			4,245
Texas	19,295	1,836	237			21,368
W. South Central	31,234	4,580	260			36,074
Montana and Wyoming						
Wyoming	1,336	*	*			1,380
Idaho	7,098	14,127	11			21,236
Colorado	3,848	*	*			4,276
New Mexico	305	174				479
Arizona	2,674	*	*			2,945
Utah and Nevada						
Nevada	2,267	1,868				4,135
Mountain	17,528	16,822	101			34,451
Washington	31,528	18,546	252	335	674	51,420
Oregon	22,755	13,973				36,728
California	48,367	18,207	407		473	67,454
Pacific	102,735	50,726	659	335	1,147	155,602
48 States	428,647	179,960	7,868	1,402	2,461	620,148
Alaska	*	*				1,170
Hawaii	*	*				1,476
United States	430,280	180,781	7,868	1,402	2,461	622,792

\* Not shown to avoid disclosure of individual plant reports. State data included in regional and United States totals.

Table 10. Refrigerated space in all warehouses by Metropolitan areas, October 1, 1971 1/

Metropolitan area	Storages Number	Gross space			Usable piling space		
		Cooler	Freezer	Total	Cooler	Freezer	Total
				1,000 cubic feet			
Albany, Ga.	4	3,291	607	3,898	2,512	423	2,935
Alb.-Schen.-Troy, N. Y.	18	2,420	2,043	4,463	1,595	1,362	2,957
Ana-San Ana-Gar.C, Calif.	6	1,334	5,025	6,359	1,059	4,050	5,109
Atlanta, Ga.	9	4,121	9,307	13,428	2,747	6,145	8,892
Bakersfield, Calif.	19	8,232	375	8,607	6,581	285	6,866
Baltimore, Md.	6	527	3,441	3,968	393	2,224	2,617
Boston, Mass.	22	1,767	14,380	16,147	1,359	10,895	12,254
Buffalo, N. Y.	29	3,279	3,493	6,772	2,688	2,620	5,308
Charlotte, N. C.	4	348	2,200	2,548	286	1,802	2,088
Chicago, Ill.	26	16,158	30,262	46,420	11,879	21,168	33,047
Cincinnati, Ohio-Ky.-Ind.	11	1,389	2,045	3,434	1,148	1,576	2,724
Cleveland, Ohio	18	3,633	7,339	10,972	2,726	5,711	8,437
Columbus, Ga.	3	1,189	1,256	2,445	1,072	1,132	2,204
Dallas, Texas	8	5,916	9,931	15,847	3,938	6,301	10,239
Denver, Colo.	10	600	4,890	5,490	503	3,790	4,293
Detroit, Mich.	23	4,226	6,056	10,282	2,823	3,957	6,780
El Paso, Texas	4	1,376	3,078	4,454	1,136	2,490	3,626
Fort Worth, Texas	5	1,931	2,223	4,154	1,098	1,378	2,476
Fresno, Calif.	32	5,420	6,083	11,503	4,187	4,366	8,553
Grand Rapids, Mich.	65	6,636	1,518	8,154	5,546	1,260	6,806
Green Bay, Wis.	22	5,228	3,280	8,508	3,585	2,513	6,098
Houston, Texas	5	786	3,276	4,062	497	2,271	2,768
Indianapolis, Ind.	11	1,225	3,621	4,846	750	2,372	3,122
Jacksonville, Fla.	5	443	2,984	3,427	359	2,374	2,733
Jersey City, N. J.	8	5,075	13,710	18,785	3,908	9,661	13,569
Kansas City, Mo.-Kans.	10	7,205	39,119	46,324	5,645	31,005	36,650
Los Ang.-L.Beach, Calif.	33	3,622	21,338	24,960	2,788	15,604	18,392
Madison, Wis.	4	271	2,894	3,165	222	2,133	2,355
Memphis, Tenn.-Ark.	7	506	6,718	7,224	324	4,303	4,627
Miami, Fla.	10	1,815	9,605	11,420	1,299	7,463	8,762
Milwaukee, Wis.	8	1,636	2,956	4,592	1,162	2,335	3,497
Mpls.-St. Paul, Minn.	12	1,513	9,565	11,078	1,063	6,876	7,939
Nashville, Tenn.	3	959	3,252	4,211	691	2,279	2,970
New Bedford, Mass.	5	97	3,959	4,056	68	3,155	3,223
New Orleans, La.	4	19	3,166	3,185	14	2,133	2,147
New York, N. Y.	53	6,595	9,468	16,063	5,025	7,453	12,478
Newark, N. J.	7	1,004	2,929	3,933	693	2,183	2,876
Norfolk-Ports., Va.	6	1,121	3,051	4,172	795	2,172	2,967
Omaha, Nebr.-Iowa	4	948	4,282	5,230	693	2,795	3,488
Orlando, Fla.	8	2,495	14,844	17,339	2,181	13,191	15,372
Oxnard-Ventura, Calif.	4	180	2,353	2,533	138	1,880	2,018
Philadelphia, Pa.-N. J.	40	4,843	12,241	17,084	3,684	8,260	11,944
Pittsburgh, Pa.	7	2,400	6,330	8,730	1,491	4,414	5,905
Portland, Maine	10	221	5,094	5,315	172	4,109	4,281
Portland, Oreg.-Wash.	17	1,011	10,168	11,179	751	8,252	9,003
Reading, Pa.	12	2,029	761	2,790	1,733	694	2,427
Rochester, N. Y.	38	13,580	11,537	25,117	10,645	8,606	19,251
Sacramento, Calif.	8	2,396	4,451	6,847	1,896	3,550	5,446
St. Louis, Mo.-Ill.	10	3,415	7,428	10,843	2,426	4,947	7,373
Salem, Oreg.	9	1,458	16,979	18,437	1,303	13,661	14,964
San Antonio, Texas	9	2,289	3,444	5,733	1,686	2,488	4,174
San Berna.-River.-Ont., Calif.	5	815	3,947	4,762	684	2,968	3,652
San Fran.-Oak., Calif.	13	2,479	7,063	9,542	1,932	5,038	6,970
San Jose, Calif.	17	4,277	9,070	13,347	3,451	6,992	10,443
Seattle-Everett, Wash.	28	1,392	15,963	17,355	1,095	11,883	12,978
Sioux City, Iowa-Nebr.	6	268	2,986	3,254	201	2,224	2,425
Springfield, Mo.	6	3,996	1,631	5,627	2,355	1,064	3,419
Stockton, Calif.	12	6,248	1,161	7,409	4,562	695	5,257
Syracuse, N. Y.	19	2,243	10,253	12,496	1,736	7,343	9,079
Tacoma, Wash.	7	230	4,129	4,359	105	3,062	3,167
Tampa-St. Pete., Fla.	16	810	13,805	14,615	622	11,389	12,011
Toledo, Ohio-Mich.	7	736	2,945	3,681	609	2,538	3,147
Waterloo, Iowa	3	899	1,820	2,719	728	1,376	2,104
York, Pa.	27	6,900	2,305	9,205	5,251	1,512	6,763
Total Above Areas	877	181,471	437,433	618,904	136,294	326,151	462,445

1/ Standard metropolitan statistical areas defined by the Bureau of the Budget in 1964. Includes areas in and around city named.

Table 11. Refrigerated space in public general warehouses by Metropolitan areas, October 1, 1971 <sup>1/</sup>

Metropolitan area	Storages	Gross space			Usable piling space		
		Cooler	Freezer	Total	Cooler	Freezer	Total
	Number	1,000 cubic feet					
Ana-San. Ana -Gar.G., Calif.	3	1,140	3,844	4,984	912	3,075	3,987
Atlanta, Ga.	8	3,995	9,307	13,302	2,642	6,144	8,786
Baltimore, Md.	4	462	3,295	3,757	353	2,120	2,473
Boston, Mass.	13	1,380	13,267	14,647	1,016	10,072	11,088
Buffalo, N. Y.	5	403	2,888	3,291	311	2,182	2,493
Chicago, Ill.	18	14,350	28,491	42,841	10,859	19,980	30,839
Cleveland, Ohio	4	3,332	6,738	10,070	2,491	5,284	7,775
Columbus, Ga.	3	1,189	1,256	2,445	1,072	1,132	2,204
Dallas, Texas	5	5,328	9,724	15,052	3,638	6,137	9,775
Denver, Colo.	7	569	4,529	5,098	483	3,524	4,007
Detroit, Mich.	8	3,526	6,056	9,582	2,254	3,957	6,211
El Paso, Texas	3	1,323	3,078	4,401	1,105	2,491	3,596
Fort Worth, Texas	3	1,891	2,223	4,114	1,069	1,379	2,448
Fresno, Calif.	8	1,838	4,596	6,434	1,500	3,340	4,840
Green Bay, Wis.	8	3,549	2,642	6,191	2,430	2,125	4,555
Houston, Texas	4	757	3,246	4,003	489	2,247	2,736
Indianapolis, Ind.	3	1,023	3,189	4,212	603	2,037	2,640
Jacksonville, Fla.	5	443	2,984	3,427	359	2,374	2,733
Jersey City, N. J.	6	4,985	13,678	18,663	3,833	9,637	13,470
Kansas City, Mo.-Kans.	8	7,148	38,903	46,051	5,597	30,882	36,479
Los Ang.-L. Beach, Calif.	21	3,004	18,924	21,928	2,308	13,777	16,085
Memphis, Tenn.-Ark.	4	312	6,558	6,870	218	4,197	4,415
Miami, Fla.	6	1,768	9,245	11,013	1,272	7,197	8,469
Milwaukee, Wis.	5	865	2,587	3,452	642	2,095	2,737
Mpls.-St. Paul, Minn.	10	1,239	9,381	10,620	844	6,727	7,571
Nashville, Tenn.	3	959	3,252	4,211	691	2,279	2,970
New Bedford, Mass.	3		3,815	3,815		3,027	3,027
New Orleans, La.	4	19	3,166	3,185	14	2,133	2,147
New York, N. Y.	11	4,317	8,468	12,785	3,450	6,735	10,185
Newark, N. J.	3	484	2,909	3,393	339	2,163	2,502
Norfolk-Ports., Va.	6	1,121	3,051	4,172	795	2,172	2,967
Omaha, Nebr.-Iowa	3	803	4,073	4,876	577	2,639	3,216
Orlando, Fla.	3	1,215	4,903	6,118	970	4,004	4,974
Philadelphia, Pa.-N. J.	13	1,592	10,931	12,523	942	7,412	8,354
Pittsburgh, Pa.	5	2,318	6,264	8,582	1,425	4,366	5,791
Portland, Oreg.-Wash.	6	538	6,458	6,996	468	5,443	5,911
Rochester, N. Y.	17	7,137	8,584	15,721	5,516	6,536	12,052
Sacramento, Calif.	4	510	3,830	4,340	381	3,084	3,465
St. Louis, Mo.-Ill.	7	2,672	5,948	8,620	1,841	3,908	5,749
San Antonio, Texas	5	1,962	3,329	5,291	1,500	2,393	3,893
San Fran.-Oak., Calif.	8	1,177	6,623	7,800	838	4,723	5,561
San Jose, Calif.	6	2,246	6,012	8,258	1,830	4,633	6,463
Seattle-Everett, Wash.	10	916	7,985	8,901	725	5,975	6,700
Sioux City, Iowa-Nebr.	5	268	2,708	2,976	201	2,078	2,279
Springfield, Mo.	4	2,555	1,250	3,805	1,612	782	2,394
Syracuse, N. Y.	5	922	2,659	3,581	778	1,763	2,541
Tampa-St. Pete., Fla.	8	506	8,711	9,217	383	7,267	7,650
Total above areas	311	100,056	325,558	425,614	73,576	239,627	313,203

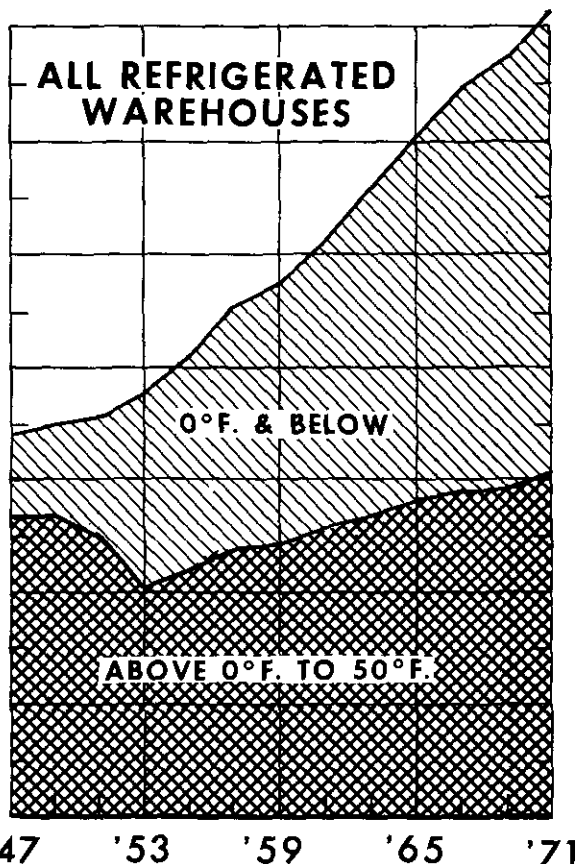
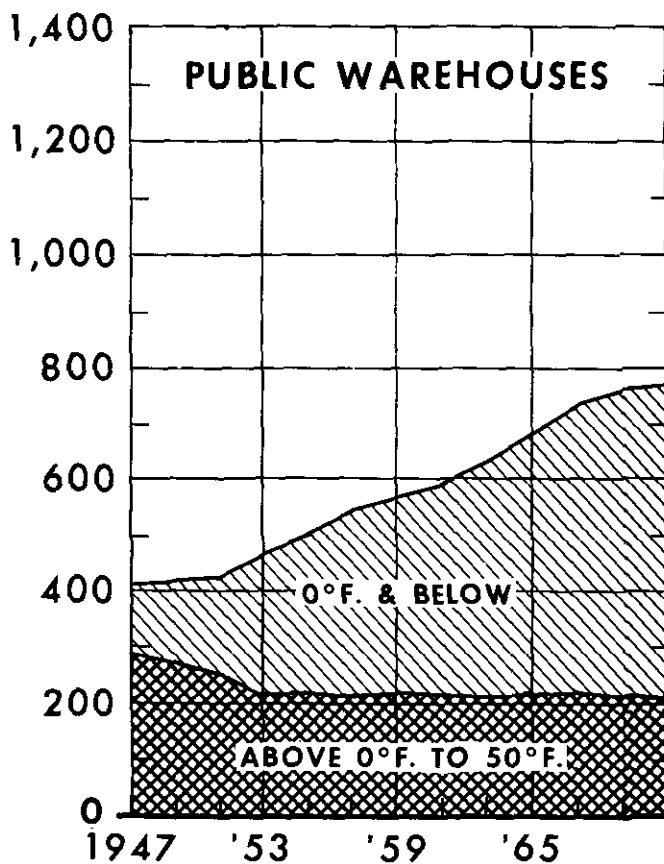
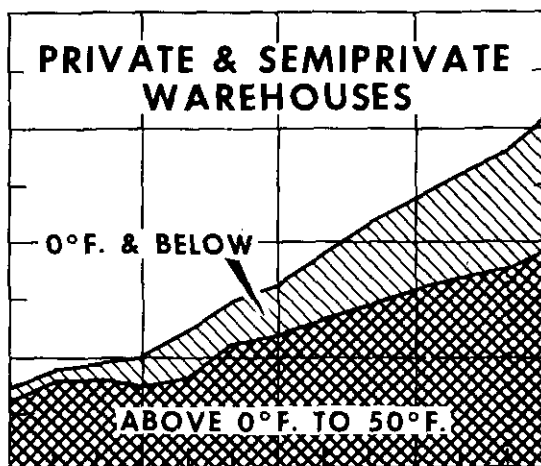
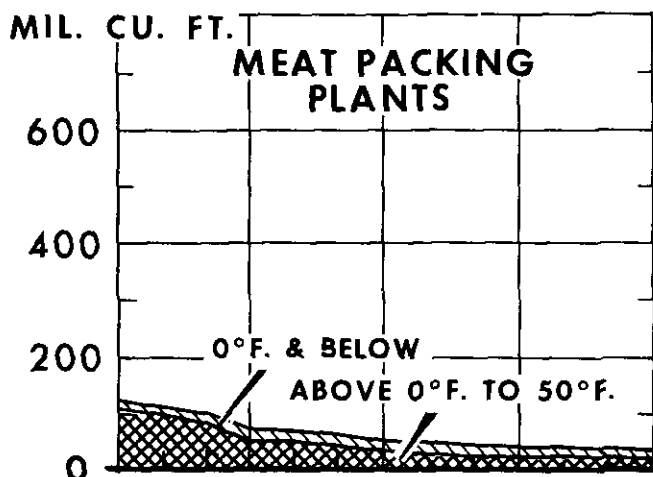
Table 12. Capacity of controlled atmosphere space for apples or pears  
October 1, 1971

State	Storages	Capacity	State	Storages	Capacity
	Number	1,000 bushels		Number	1,000 bushels
Maine	25	707	Michigan	93	3,683
New Hampshire	16	484	Virginia and West Virginia	12	1,287
Vermont	6	343	Washington	95	8,841
Massachusetts	42	846	Oregon	5	421
Connecticut	15	183	California	18	2,168
New York	78	3,952	Other States	12	272
New Jersey	13	404	United States	441	24,259
Pennsylvania	11	668			



# GROSS REFRIGERATED STORAGE CAPACITY

By Type of Warehouse and Temperature Range, United States







UNITED STATES DEPARTMENT OF AGRICULTURE  
WASHINGTON, D. C. 20250

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
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