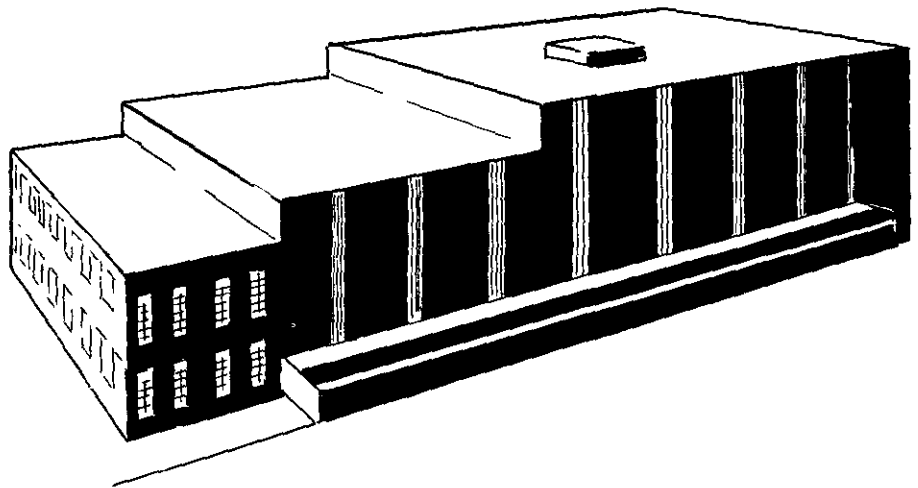


# **CAPACITY OF REFRIGERATED WAREHOUSES**

**in the United States  
October 1, 1963**



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**UNITED STATES DEPARTMENT OF AGRICULTURE • WASHINGTON, D.C.**

Co St 2 (64)

STATISTICAL REPORTING SERVICE  
CROP REPORTING BOARD  
AUGUST 1964

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CAPACITY OF REFRIGERATED WAREHOUSES  
IN THE UNITED STATES  
OCTOBER 1, 1963

INTRODUCTION

Beginning in 1921, and each alternate year since, the Department of Agriculture has surveyed the refrigerated warehouses in the United States to determine their number, location, and capacity. Statistics compiled from these surveys have provided an unbroken series of historical facts concerning (1) growth rates operating within the industry, (2) long term trends affecting the use of refrigerated space, and (3) other economic factors influencing the location and type of service offered food storers.

This is a report on the 22nd biennial survey of the capacity of refrigerated warehouses. Survey questionnaires were sent to facilities having refrigerated space artificially cooled to temperatures of 50° Fahrenheit or lower holding food stocks for 30 days or more. Space in warehouses operated by wholesalers, jobbers, retailers, or other businesses holding food products less than 30 days was not surveyed. Excluded, too, was refrigerated space in locker plants, hotels, and military establishments.

To insure reliable capacity coverage, every effort was made to include space in all known public, private, and semi-private refrigerated facilities. These facilities included one-product houses handling fish, fruits, vegetables, meats or dairy as well as refrigerated rooms maintained by frozen food processors for storage purposes.

DEFINITIONS

The terms used in this report are defined as follows:

Public general cold storage--Any artificially cooled warehouse operated to store food commodities for others for pay.

Private cold storage--Any artificially cooled warehouse operated as a warehousing business to facilitate the main function of a producer, processor, or distributor but not to store commodities for others for pay.

Semiprivate cold storage--Any artificially cooled warehouse used in part to store the owner's commodities and, in addition, is used to store various food commodities for others for pay.

Meat-packing establishment--Any plant engaged in processing dressed animal products for food. For this report and survey, only that space used

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for storing products is included. Refrigerated working space, chill rooms, and coolers used exclusively for handling dressed carcasses prior to shipping, as well as smoking and curing rooms are excluded.

Apple house--Any warehouse--public, private, or semiprivate--operated mainly or exclusively to store apples or pears.

Gross space--The space inside the refrigerated rooms, measured from wall to wall and floor to ceiling, excluding elevators, stairs, vestibules, and like enclosures.

Usable piling space--Space for storing commodities, that is, space inside rooms, measured wall to wall and floor to ceiling, minus the space provided for ventilation (outside of pile), space occupied by coils, aisles, posts, sprinklers, and the like.

Number of plants--Represents the number of individual plant locations. Company plants of different address within a city or State, and plants having different intra-company designations are counted separately.

Cities--As used in this report, cities are standard metropolitan areas. Generally, these are major urban centers of 50,000 or more population and include all of the closely linked surrounding areas.

Geographic regions--The regions and States covered in the survey are as follows:

New England: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

Middle Atlantic: New York, New Jersey, and Pennsylvania.

East North Central: Ohio, Indiana, Illinois, Michigan, and Wisconsin.

West North Central: Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas.

South Atlantic: Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, and Florida.

East South Central: Kentucky, Tennessee, Alabama, and Mississippi.

West South Central: Arkansas, Louisiana, Oklahoma, and Texas.

Mountain: Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, and Nevada.

Pacific: Washington, Oregon, and California.

### National Refrigerated Warehouse Capacity

Refrigerated warehouse capacity in the United States, excluding Alaska and Hawaii, 1/ totaled 1,108 million gross cubic feet on October 1, 1963. This was a gain of 84 million cubic feet from the October 1, 1961 survey. The number of operating warehouses increased during this period from 3,205 to 3,241. See tables 1, 2, 3, and fig. 1.

The 1,108 million cubic feet of storage capability was the largest national capacity ever reported -- 8 percent more than in 1961, 48 percent more than in 1953, and 70 percent more than in 1943.

Additions to the Nation's refrigerated capacity during the 20-year period ended 1963 were at a faster rate than population gains in the United States. Per capita availability was 5.88 cubic feet in 1963, a gain of 23 percent from the 4.76 cubic feet available per person in 1943. 2/

Public general warehouses: There were 800 warehouses 3/ for the public's general use on October 1, 1963 -- a decline of 20 from October 1, 1961. In part, the decline resulted from closing of some facilities in the last 2 years, but public plant numbers also were affected by reclassifications within industry, i.e., changing from a public activity to a non-public service from the 1961 survey year. Although their number was reduced, total capacity of public plants increased 8 percent between 1961 and 1963. Total storage capability in public warehouses amounted to 596 million cubic feet, 54 percent of the national storage capacity on October 1, 1963 (table 4 and fig. 2). Twenty years earlier, 51 percent was public general space.

Public general warehouse space increased steadily in the past 2 decades, an outgrowth of significant advances in engineering, food, and marketing technologies. Wider consumer acceptance of frozen foods and the associated need for freezer storage space, spurred expansion in all segments of the warehousing industry. Public storage space grew from 329 million cubic feet in 1943 to the 596 million in 1963. This increase of 81 percent is an average annual growth rate of 3 percent compounded annually.

There were public warehouses in every State except Wyoming. New York had the greatest number, 82, but California, with 63 million cubic feet in 80 plants out-ranked the capacity of public warehouses in New York by 9 million cubic feet. Illinois, with 35 plants and 58 million cubic feet, ranked second in capacity.

Private and semiprivate warehouses: Capacity in private and semiprivate warehouses on October 1, 1963 was 218 million cubic feet, a 25 million cubic feet gain in 2 years. Private and semiprivate space in the 3 Pacific States chiefly in California accounted for one-third of the national total. California

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1/ For a detailed breakdown of capacity by type of warehouse, see table 13.

2/ Bureau and Census estimates of total population, including Armed Forces overseas and of the population eating from civilian food supplies.

3/ Excludes public apple houses.

with 133 plants and a collective capacity of 47 million cubic feet out-ranked Florida, the next largest, by 11 million cubic feet. Both California and Florida are frozen food processing centers, which accounts for their predominance in the storage areas provided by private and semiprivate facilities. This type of warehousing activity also was significant in Oregon, New York, Michigan, Virginia, Wisconsin and Washington, in that order.

Private and semiprivate storage facilities, excluding apple houses, generally are adjuncts to plants processing fruits, vegetables, juices, fish, poultry, etc. This sector of the warehousing industry has grown markedly since World War II as a result of the significant expansion in frozen food production.

On the West Coast, for example, the capacity of private and semiprivate space totaled 73 million cubic feet on October 1, 1963, compared with 33 million in 1953 and only 5 million in 1943. The rate of growth was even more phenomenal in the South Atlantic States. As a result of a gain from 0.6 million cubic feet in 1943 to 56 million on October 1, 1963, the South Atlantic emerged as a major storage area for processed frozen food stocks. Table 5 lists usable piling capacity by States.

Apple houses: Refrigerated capacity in apple houses increased 18 million cubic feet between the 1961 and 1963 surveys and on October 1, 1963 amounted to 243 million cubic feet. The gain was in private and semiprivate apple rooms, up 23 million cubic feet, but partially offset by a 5-million cubic feet decrease in public apple storage space.

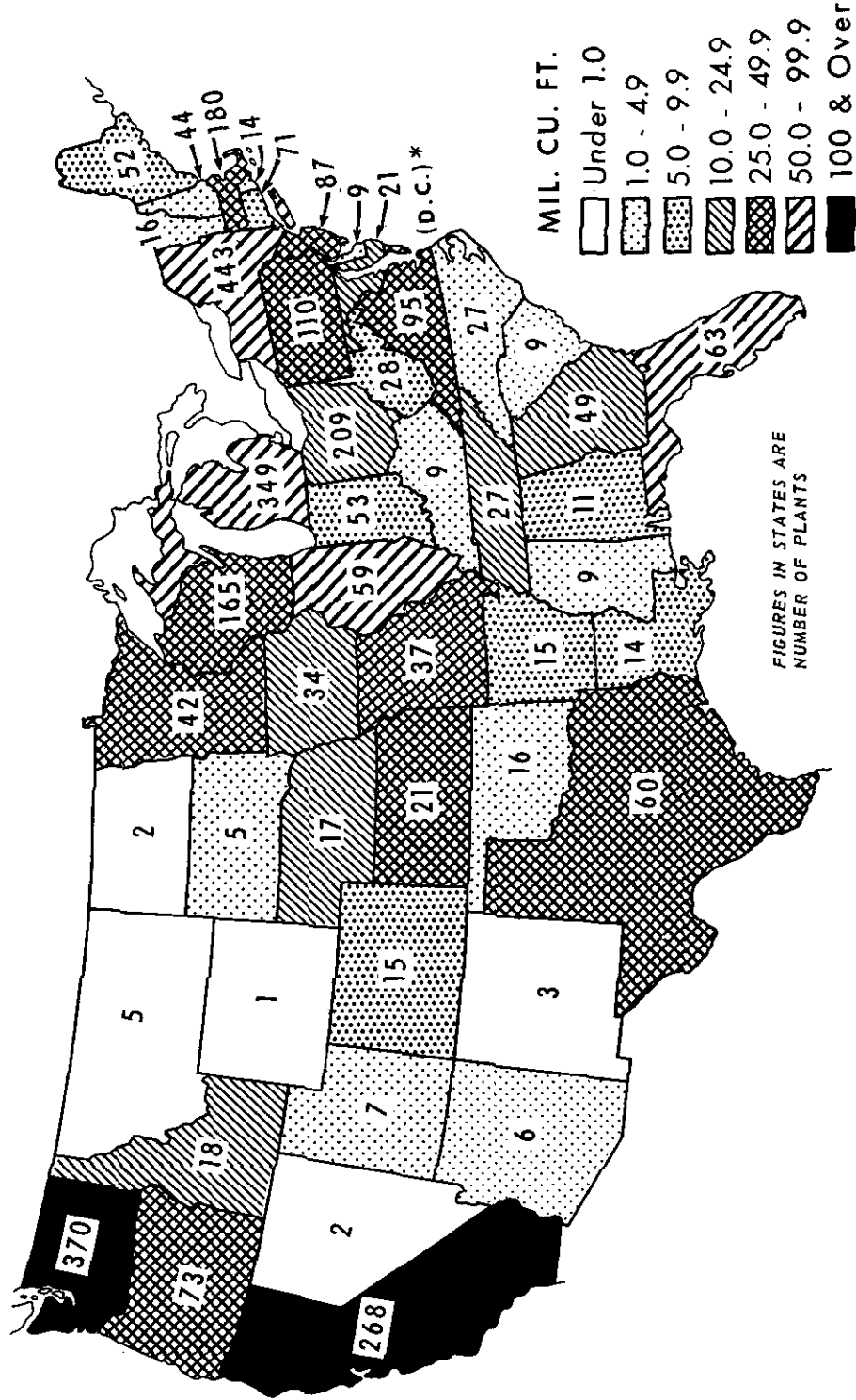
Controlled atmosphere storage (CA rooms) has become an important part of the apple storage industry. In the 1963 survey, for the first time, capacity information on CA rooms was collected to establish a base for estimating stocks.

Survey findings revealed that 265 plants operated CA rooms on October 1, 1963 with a capacity of 11 million bushels (table 12). This is 12 percent of the total bushel capacity reported by the 1,612 apple houses in the United States.

Meat packing plants: The amount of space in meat packing plants used for storage purposes decreased 2 million cubic feet since 1961, a continuation of the downward trend evidenced for more than 20 years. Storage capacity was 170 million cubic feet in 1943 but only 50 million in 1963. Improved technology for curing meats more rapidly reduced the need for long term storage in cooler space. Freezer capacity, however, did not exhibit the same trend, but remained relatively stable during the past two decades. On October 1, 1963, freezer space in meat packing plants totaled 17 million cubic feet, about 2 million more than in 1943. By contrast, cooler capacity dropped from 155 million to 33 million cubic feet during the same period.

# DISTRIBUTION OF GROSS REFRIGERATED CAPACITY, BY STATES, OCTOBER 1, 1963

Total Cubic Feet and Number of Plants



### National Freezer Capacity

Capacity of freezer rooms in the United States was at a record high of 579 million cubic feet on October 1, 1963. (See tables 6 and 7 for gross and net piling space.) This storage area comprised 52 percent of the total storage capability in the country and was 63 million cubic feet larger than in 1961.

Freezer capacity increased significantly since 1921 but the greatest gains have been made since World War II. From 1921 to 1941, for example, capacity increased from 67 million to 108 million cubic feet, a gain of 61 percent. But, from 1941 to 1963, there was more than a four-fold gain (fig. 3).

In 1943, less than 20 percent of the storage space in the country could hold freezer temperatures, compared with 52 percent in 1963. Increased freezer availability results from the impact of frozen food upon the warehousing industry. To meet a growing need for space capable of holding larger and larger amounts of frozen food products, cooler space was converted to freezer rooms and new facilities were erected in both urban and food producing areas.

Public general warehousing, for example, increased freezer capacity at a rate averaging about 20 percent per year, growing from 86 million cubic feet in 1943 to 421 million by October 1, 1963. However, their share of the Nation's freezer capacity was down to 73 percent on October 1, 1963 compared with 78 percent in 1943. The loss can be accounted for by the gain in freezer space in frozen food processing plants and in other private storage facilities where the growth of freezer capacity was 13 percent per year. In 1943, freezer rooms in private and semiprivate plants made up less than 9 percent of the total. By 1963, their share had grown to 24 percent.

Freezer capacity on the West Coast was the largest of any region and in California totaled 76 million cubic feet. Florida, with 56 million, ranked next, followed by New York with 40 million.

### National Cooler Capacity

On October 1, 1963 refrigerated warehouses had a cooler capacity of 529 million cubic feet. This is a gain of 21 million since October 1, 1961. Cooler capacity for all types of warehouses in the Pacific, East North Central, and Middle Atlantic regions represented 71 percent of the total gross cooler capacity in the Nation (tables 8 and 9).

According to the 1963 survey, 45 percent of the national cooler capacity was in apple houses and one-third was in public general warehouses. The remaining capacity, 114 million cubic feet, was in meat packers facilities and in private and semiprivate warehouses.



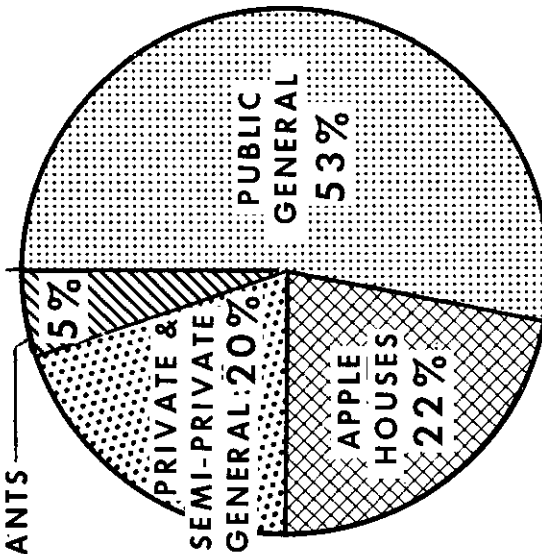
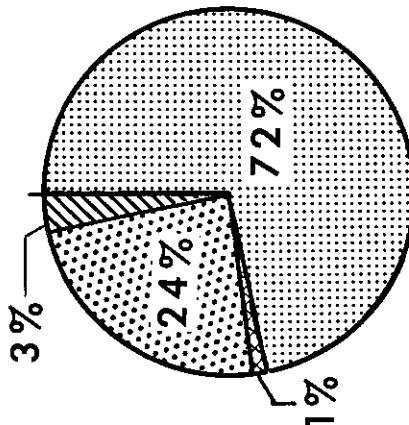
# GROSS REFRIGERATED SPACE

Distribution by Type of Warehouse, October 1, 1963

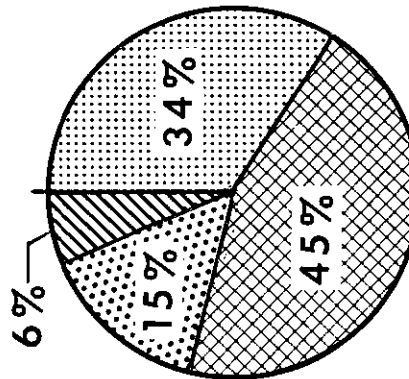
**TOTAL CAPACITY**  
(1,108 MIL. CUBIC FT.)

MEAT PACKING  
PLANTS

**0° F., AND BELOW**  
(579 MIL. CUBIC FT.)

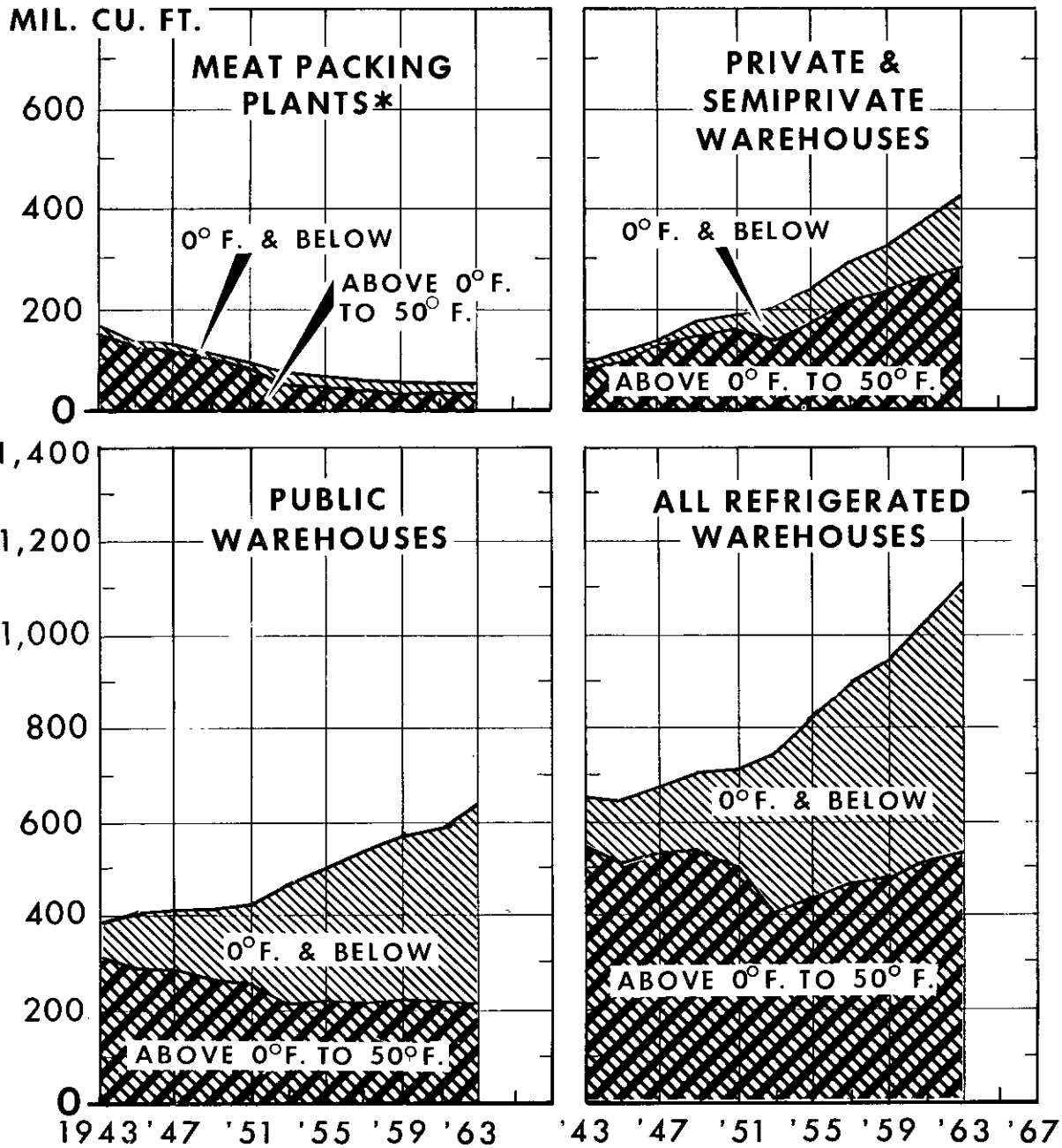


**ABOVE 0° F. TO 50° F.**  
(529 MIL. CUBIC FT.)



# GROSS REFRIGERATED STORAGE CAPACITY

Distribution by Type of Warehouse and by Temperature Range



\* BEGINNING WITH 1943, REFRIGERATED WORKING SPACE IN MEAT PACKING PLANTS WAS EXCLUDED.

About 18 million cubic feet of cooler space was added to apple facilities between 1961 and 1963. This continued the trend to locate warehouse space close to fruit growing areas, thus accounting for the intensive clustering of fruit storage plants in the New England, Middle Atlantic, East North Central, South Atlantic, and Pacific Regions. Public general warehouses increased their cooler capacity by 2 million cubic feet and private and semiprivate warehouses and meat packers gained a million.

Cooler space in public warehouses increased in the past 2 years, although declining during the past 20 years. On October 1, 1943 there were 243 million cubic feet of public general cooler space. On October 1, 1963 there were 175 million cubic feet of cooler space.

During the same period the cooler capacity of apple houses, including CA rooms, nearly doubled. Private and semi-private cooler space (excluding apple houses) increased more than  $3\frac{1}{2}$  times but cooler space in meat packing plants declined 121 million cubic feet to 22 percent of the 1943 level.

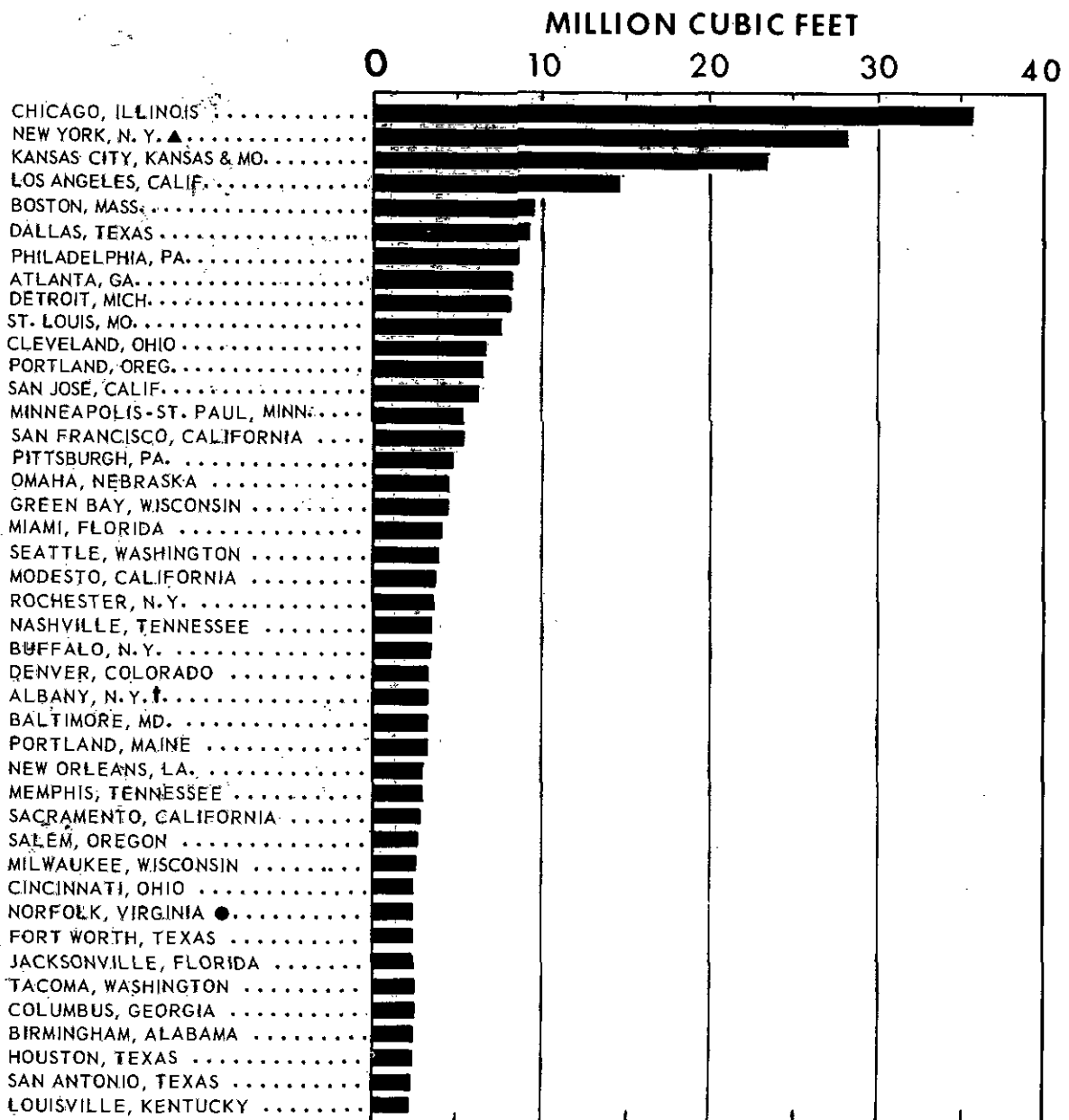
#### Cities

Storage space in the 38 cities that have at least 3 million cubic feet (gross) and at least 3 warehouses (table 10) accounted for 40 percent of all refrigerated space in the country. The Chicago metropolitan area was first with 55 million cubic feet of gross refrigerated space. The New York City area, including northern New Jersey, ranked second with 48 million cubic feet.

Public general storage space in the 43 cities having 2 million or more cubic feet of usable piling space and 3 or more public general warehouses (table 11) accounted for nearly 1/3 of the total usable refrigerated storage capacity in the United States. In addition public general space availability in these cities was nearly 61 percent of the total usable space in public general warehouses in the nation. More public piling space was found in Chicago than in any other metropolitan area. With nearly 52 million cubic feet, Chicago's gross capacity was 12 million greater than New York's which ranked second. Kansas City with 33 million ranked third. Figure 4 shows graphically the usable piling space in each of 38 metropolitan areas.

# CITIES\* WITH 2 MILLION OR MORE CUBIC FEET OF USABLE PILING SPACE, OCTOBER 1, 1963

*Each Having 3 or More Public General Refrigerated Warehouses*



\* METROPOLITAN AREAS.

▲ INCLUDES NORTHEASTERN NEW JERSEY.

† INCLUDES SCHENECTADY AND TROY.

● INCLUDES PORTSMOUTH, NEWPORT NEWS AND HAMPTON.

Table 1. --Warehouses, all types: Refrigerated storage capacity, United States, October 1, 1963

Type of refrigerated warehouse <sup>1/</sup>	Plants	Gross space <sup>1/</sup>			Usable piling space <sup>1/</sup>		
		Zero° F. or below	Above Zero° F. to 50° F.	Total	Zero° F. or below	Above Zero° F. to 50° F.	Total
	<u>Number</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>
Public general.....	800	421,003	175,133	596,136	310,247	129,187	439,434
Private and semi-private general.....	702	137,593	80,545	218,138	103,307	59,205	162,512
Meat-packing plants....	127	16,774	33,598	50,372	11,115	22,655	33,770
Apple houses:							
Public.....	86	1,179	33,290	34,469	972	26,988	27,960
Private and semi-private.....	1,526	2,662	206,273	208,935	2,252	166,403	168,655
Total .....	3,241	579,211	528,839	1,108,050	427,893	404,438	832,331

<sup>1/</sup> For definitions of terms used, see page 2.

Table 2. --Warehouses, all types: Gross refrigerated storage capacity, United States, 1947-1963

Type of refrigerated storage	1947	1949	1951	1953	1955	1957	1959	1961	1963
	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>	<u>1,000 cu. ft.</u>
Public <sup>1/</sup> .....	408,232	413,256	425,114	466,470	498,599	545,061	567,251	593,863	630,605
Private <sup>1/</sup> .....	83,781	85,417	94,929	118,201	153,079	210,705	239,832	298,486	323,416
Semiprivate <sup>1/</sup> .....	52,035	85,781	92,744	84,290	92,771	83,469	84,312	79,710	103,657
Meat Packing plants....	130,993	116,324	98,229	79,089	68,568	62,162	50,872	51,985	50,372
Total.....	675,041	700,778	711,016	748,050	813,017	901,397	942,267	1,024,044	1,108,050

<sup>1/</sup> Includes apple house refrigerated storage space.

Table 3. --Number of refrigerated warehouses, United States, October 1, 1963

State and region	Total	Public	Private and semiprivate	Meat packers	Apple-houses	
					Public	Private and semiprivate
	Number	Number	Number	Number	Number	Number
Maine.....	52	5	9	-	-	38
New Hampshire.....	44	1	1	-	-	42
Vermont.....	16	2	2	-	-	12
Massachusetts.....	180	29	18	-	2	131
Rhode Island.....	14	2	2	-	-	10
Connecticut.....	71	5	1	-	1	64
New England.....	377	44	33	-	3	297
New York.....	443	82	110	20	26	205
New Jersey.....	87	29	5	-	2	51
Pennsylvania.....	110	37	20	6	3	44
Middle Atlantic.....	640	148	135	26	31	300
Ohio.....	209	16	13	2	3	175
Indiana.....	53	7	5	7	2	32
Illinois.....	59	35	6	7	4	7
Michigan.....	349	22	40	-	4	283
Wisconsin.....	165	59	97	6	-	3
E. North Central.....	835	139	161	22	13	500
Minnesota.....	42	13	25	4	-	-
Iowa.....	34	17	7	10	-	-
Missouri.....	37	25	3	7	1	1
North Dakota.....	2	1	1	-	-	-
South Dakota.....	5	2	1	2	-	-
Nebraska.....	17	10	2	5	-	-
Kansas.....	21	14	1	5	-	1
W. North Central.....	158	82	40	33	1	2
Delaware.....	9	4	5	-	-	-
Maryland & D. C....	22	9	5	1	1	6
Virginia.....	95	23	9	3	8	52
West Virginia.....	28	4	1	1	2	20
North Carolina.....	27	13	9	-	-	5
South Carolina.....	9	4	4	1	-	-
Georgia.....	49	31	15	3	-	-
Florida.....	63	29	34	-	-	-
South Atlantic.....	302	117	82	9	11	83
Kentucky.....	9	5	2	1	-	1
Tennessee.....	27	18	2	6	-	1
Alabama.....	11	8	3	-	-	-
Mississippi.....	9	6	3	-	-	-
E. South Central.....	56	37	10	7	-	2
Arkansas.....	15	11	3	-	1	-
Louisiana.....	14	10	4	-	-	-
Oklahoma.....	16	6	6	4	-	-
Texas.....	60	36	17	7	-	-
W. South Central.....	105	63	30	11	1	-
Montana.....	5	3	1	1	-	-
Idaho & Wyoming....	19	7	10	2	-	-
Colorado.....	15	9	2	4	-	-
New Mexico.....	3	2	1	-	-	-
Arizona.....	6	5	-	1	-	-
Utah & Nevada.....	9	7	1	1	-	-
Mountain.....	57	33	15	9	-	-
Washington.....	370	35	33	5	15	282
Oregon.....	73	22	30	2	1	18
California.....	268	80	133	3	10	42
Pacific.....	711	137	196	10	26	342
United States...	3,241	800	702	127	86	1,526

Table 4. --Total gross refrigerated space, by type of warehouse, United States, October 1, 1963

State and region	Total 1,000 cu. ft.	Public 1,000 cu. ft.	Private and semiprivate 1,000 cu. ft.	Meat packers 1,000 cu. ft.	Apple-houses	
					Public 1,000 cu. ft.	Private and semiprivate 1,000 cu. ft.
Maine.....	9,616	4,431	2,463	-	-	2,722
New Hampshire.....	2,225	1/	1/	-	-	2,098
Vermont.....	2,025	1/	1/	-	-	1,216
Massachusetts.....	32,511	23,136	1/	-	1/	6,565
Rhode Island.....	1,989	1/	1/	-	-	242
Connecticut.....	4,906	1,929	1/	-	1/	2,909
New England.....	53,272	31,899	5,344	-	277	15,752
New York.....	96,329	53,675	15,474	3,450	8,721	15,009
New Jersey.....	37,139	27,570	1/	-	1/	2,603
Pennsylvania.....	43,311	22,902	1/	1,464	1/	10,843
Middle Atlantic.....	176,779	104,147	28,563	4,914	10,700	28,455
Ohio.....	24,597	18,320	1,033	1/	1/	4,352
Indiana.....	7,968	3,821	1/	2,034	1/	894
Illinois.....	63,449	57,627	1/	2,791	1/	1/
Michigan.....	50,198	19,250	14,189	-	508	16,476
Wisconsin.....	32,110	18,299	10,977	1/	-	1/
E. North Central.....	178,322	117,317	29,126	8,326	1,139	22,414
Minnesota.....	25,011	13,448	7,863	3,700	-	-
Iowa.....	16,788	7,880	1,674	7,234	-	-
Missouri.....	25,453	19,685	2,256	2,997	1/	1/
North Dakota.....	(4,422	(590	(1/	(1/	(-	(-
South Dakota.....	(	(	(	(	(-	(-
Nebraska.....	11,438	7,604	1/	1/	-	-
Kansas.....	37,521	33,145	1/	4,065	-	1/
W. North Central.....	120,633	82,352	12,164	25,461	1/	1/
Delaware.....	3,456	1,145	2,311	-	-	-
Maryland & D. C...	12,257	8,665	1,072	1/	1/	1,426
Virginia.....	40,504	11,507	12,221	345	9,120	7,311
West Virginia.....	8,250	2,051	1/	1/	1/	5,309
North Carolina....	4,202	2,420	1,273	-	-	509
South Carolina....	1,819	1,424	1/	1/	-	-
Georgia.....	24,791	21,060	2,779	952	-	-
Florida.....	61,519	25,491	36,028	-	-	-
South Atlantic.....	156,798	73,763	56,045	2,374	10,061	14,555
Kentucky.....	2,900	2,749	1/	1/	-	1/
Tennessee.....	16,121	13,491	1/	1/	-	1/
Alabama.....	5,671	5,365	306	-	-	-
Mississippi.....	1,516	977	539	-	-	-
E. South Central.....	26,208	22,582	1,214	1/	-	1/
Arkansas.....	5,442	5,028	1/	-	1/	-
Louisiana.....	6,299	5,669	630	-	-	-
Oklahoma.....	4,411	3,062	1/	1/	-	-
Texas.....	33,174	28,735	1/	1/	-	-
W. South Central.....	49,326	42,494	3,788	1/	1/	-
Montana.....	436	246	1/	1/	-	-
Idaho & Wyoming...	15,298	6,893	1/	1/	-	-
Colorado.....	5,668	4,718	1/	1/	-	-
New Mexico.....	447	1/	1/	-	-	-
Arizona.....	1,495	1/	-	1/	-	-
Utah & Nevada.....	3,808	3,435	1/	1/	-	-
Mountain.....	27,152	16,823	8,901	1,428	-	-
Washington.....	142,835	23,358	10,566	1,078	8,353	99,480
Oregon.....	49,850	18,550	15,784	1/	1/	14,578
California.....	126,875	62,851	46,643	1/	1/	13,029
Pacific.....	319,560	104,759	72,993	2,868	11,853	127,087
United States...	1,108,050	596,136	218,138	50,372	34,469	208,935

1/ Not shown to avoid disclosure of individual plant reports.

Table 5. --Total usable refrigerated space, by type of warehouse, United States, October 1, 1963

State and region	Total	Public	Private and semiprivate	Meat packers	Apple-houses	
					Public	Private and semiprivate
	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.
Maine.....	7,534	3,369	1,999	-	-	2,266
New Hampshire.....	1,829	1/	1/	-	-	1,736
Vermont.....	1,695	1/	1/	-	-	1,019
Massachusetts.....	23,194	15,832	1/	-	1/	5,254
Rhode Island.....	1,418	1/	1/	-	-	203
Connecticut.....	3,896	1,472	1/	-	1/	2,369
New England.....	39,566	22,341	4,144	-	234	12,847
New York.....	74,013	40,726	10,906	2,599	6,998	12,784
New Jersey.....	25,330	18,292	1/	-	1/	2,122
Pennsylvania.....	32,093	16,429	1/	921	1/	8,769
Middle Atlantic.....	131,436	75,447	20,159	3,520	8,635	23,675
Ohio.....	18,910	13,868	725	1/	1/	3,534
Indiana.....	5,700	2,840	1/	1,096	1/	734
Illinois.....	44,176	40,407	1/	1,554	1/	1/
Michigan.....	38,954	14,484	10,813	-	232	13,425
Wisconsin.....	24,394	14,163	8,061	1/	-	1/
E. North Central.....	132,134	85,762	21,733	5,429	955	18,255
Minnesota.....	17,214	9,160	5,888	2,166	-	-
Iowa.....	11,837	5,583	1,161	5,093	-	-
Missouri.....	17,064	13,579	1,182	1,889	1/	1/
North Dakota.....	(2,812	(398	(1/	(1/	(-	(-
South Dakota.....	(	(	(	(	(-	(-
Nebraska.....	8,096	5,329	1/	1/	-	1/
Kansas.....	27,125	24,401	1/	2,501	-	1/
W. North Central.....	84,148	58,450	8,499	16,670	1/	1/
Delaware.....	2,501	870	1,631	-	-	-
Maryland & D. C....	9,139	6,352	852	1/	1/	1,000
Virginia.....	31,949	8,720	9,917	213	7,390	5,709
West Virginia.....	6,811	1,655	1/	1/	1/	4,452
North Carolina.....	3,319	1,906	986	-	-	427
South Carolina.....	1,436	1,141	1/	1/	-	-
Georgia.....	18,356	15,622	2,002	732	-	-
Florida.....	48,613	20,730	27,883	-	-	-
South Atlantic.....	122,124	56,996	43,564	1,876	8,100	11,588
Kentucky.....	2,464	2,353	1/	1/	-	1/
Tennessee.....	12,115	10,111	1/	1/	-	1/
Alabama.....	4,284	4,069	215	-	-	-
Mississippi.....	1,161	735	426	-	-	-
E. South Central.....	20,024	17,268	952	1/	-	1/
Arkansas.....	3,916	3,571	1/	-	1/	-
Louisiana.....	4,618	4,060	558	-	-	-
Oklahoma.....	3,151	2,169	1/	1/	-	-
Texas.....	24,175	20,967	1/	1/	-	-
W. South Central.....	35,860	30,767	2,851	1/	1/	-
Montana.....	348	188	1/	1/	-	-
Idaho & Wyoming...	11,192	4,949	1/	1/	-	-
Colorado.....	4,340	3,682	1/	1/	-	-
New Mexico.....	350	1/	1/	-	-	-
Arizona.....	1,055	1/	-	1/	-	-
Utah & Nevada.....	2,734	2,485	1/	1/	-	-
Mountain.....	20,019	12,416	6,653	950	-	-
Washington.....	113,055	18,217	7,727	710	6,792	79,609
Oregon.....	38,479	14,622	11,572	1/	1/	11,716
California.....	95,486	47,148	34,658	1/	1/	10,367
Pacific.....	247,020	79,987	53,957	1,697	9,687	101,692
United States...	832,331	439,434	162,512	33,770	27,960	168,655

1/ Not shown to avoid disclosure of individual plant reports.



Table 6. --Gross refrigerated space, by type of warehouse, United States, October 1, 1963  
ZERO° F. AND BELOW

State and region	Total	Public	Private and semiprivate	Meat packers	Apple-houses	
					Public	Private and semiprivate
	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.
Maine.....	6,696	4,233	2,463	-	-	-
New Hampshire.....	112	1/	1/	-	-	-
Vermont.....	725	1/	1/	-	-	-
Massachusetts.....	21,550	19,270	1/	-	1/	-
Rhode Island.....	1,288	1/	1/	-	-	2
Connecticut.....	1,395	1,380	1/	-	1/	4
New England.....	31,766	26,832	4,910	-	18	6
New York.....	40,653	32,318	7,034	924	191	186
New Jersey.....	21,453	19,060	1/	-	1/	118
Pennsylvania.....	20,668	17,073	1/	72	1/	393
Middle Atlantic.....	82,774	68,451	12,304	996	326	697
Ohio.....	13,104	12,440	560	1/	1/	3
Indiana.....	3,950	2,723	1/	551	1/	-
Illinois.....	34,640	32,581	1/	710	1/	1/
Michigan.....	22,164	13,119	9,041	-	3	1
Wisconsin.....	7,235	4,487	1,514	1/	-	1/
E. North Central.....	81,093	65,350	13,082	2,596	16	49
Minnesota.....	19,447	11,756	5,496	2,195	-	-
Iowa.....	11,159	6,708	1,400	3,051	-	-
Missouri.....	15,101	13,153	637	1,307	1/	1/
North Dakota.....	(1,087	(529	(1/	(1/	(-	(-
South Dakota.....						
Nebraska.....	7,700	6,044	1/	1/	-	-
Kansas.....	26,361	24,773	1/	1,490	-	1/
W. North Central.....	80,855	62,963	7,786	10,102	1/	1/
Delaware.....	3,191	980	2,211	-	-	-
Maryland & D. C....	8,649	7,648	969	1/	1/	-
Virginia.....	7,588	3,759	3,554	20	255	-
West Virginia.....	909	670	1/	1/	1/	216
North Carolina....	2,074	1,348	726	-	-	-
South Carolina....	1,492	1,288	1/	1/	-	-
Georgia.....	12,411	10,169	1,884	358	-	-
Florida.....	56,078	23,599	32,479	-	-	-
South Atlantic.....	92,392	49,461	42,033	427	255	216
Kentucky.....	1,827	1,814	1/	1/	-	1/
Tennessee.....	11,942	11,213	1/	1/	-	1/
Alabama.....	3,427	3,267	160	-	-	-
Mississippi.....	670	645	25	-	-	-
E. South Central.....	17,866	16,939	497	1/	-	1/
Arkansas.....	4,849	4,698	1/	-	1/	-
Louisiana.....	4,402	3,836	566	-	-	-
Oklahoma.....	2,892	2,164	1/	1/	-	-
Texas.....	19,550	17,917	1/	1/	-	-
W. South Central.....	31,693	28,615	2,074	1/	1/	-
Montana.....	196	145	1/	1/	-	-
Idaho & Wyoming...	14,567	6,434	1/	1/	-	-
Colorado.....	4,440	3,915	1/	1/	-	-
New Mexico.....	223	1/	1/	-	-	-
Arizona.....	1,117	1/	-	1/	-	-
Utah & Nevada.....	2,983	2,900	1/	1/	-	-
Mountain.....	23,526	14,584	8,459	483	-	-
Washington.....	30,709	20,966	8,399	415	402	527
Oregon.....	30,446	15,794	14,418	1/	1/	62
California.....	76,091	51,048	23,631	1/	1/	1,101
Pacific.....	137,246	87,808	46,448	736	564	1,690
United States...	579,211	421,003	137,593	16,774	1,179	2,662

1/ Not shown to avoid disclosure of individual plant reports.

Table 7. --Usable refrigerated space, by type of warehouse, United States, October 1, 1963

## ZERO° F. AND BELOW

State and region	Total 1,000 cu. ft.	Public 1,000 cu. ft.	Private and semiprivate 1,000 cu. ft.	Meat packers 1,000 cu. ft.	Apple-houses	
					Public 1,000 cu. ft.	Private and semiprivate 1,000 cu. ft.
Maine.....	5,133	3,134	1,999	-	-	-
New Hampshire.....	80	1/	1/	-	-	-
Vermont.....	601	1/	1/	-	-	-
Massachusetts.....	14,885	13,200	1/	-	1/	-
Rhode Island.....	886	1/	1/	-	-	2
Connecticut.....	1,065	1,054	1/	-	1/	3
New England.....	22,650	18,831	3,800	-	14	5
New York.....	30,388	24,120	5,261	687	145	175
New Jersey.....	14,664	12,871	1/	-	1/	86
Pennsylvania.....	15,060	12,297	1/	40	1/	342
Middle Atlantic.....	60,112	49,288	9,236	727	258	603
Ohio.....	10,133	9,633	405	1/	1/	3
Indiana.....	3,337	2,371	1/	366	1/	-
Illinois.....	22,955	21,650	1/	439	1/	1/
Michigan.....	16,671	9,747	6,921	-	2	1
Wisconsin.....	5,475	3,596	961	1/	-	1/
E. North Central.....	58,571	46,997	9,709	1,815	13	37
Minnesota.....	13,884	8,113	4,479	1,292	-	-
Iowa.....	8,105	4,799	985	2,321	-	-
Missouri.....	10,220	9,094	355	768	1/	1/
North Dakota.....	(734	(354	(1/	(1/	(-	(-
South Dakota.....	(	(	(	(	(-	(-
Nebraska.....	5,347	4,294	1/	1/	-	-
Kansas.....	19,205	18,410	1/	733	-	1/
W. North Central.....	57,495	45,064	6,008	6,420	1/	1/
Delaware.....	2,302	735	1,567	-	-	-
Maryland & D. C....	6,455	5,658	767	1/	1/	-
Virginia.....	5,397	2,769	2,394	19	215	-
West Virginia.....	727	513	1/	1/	1/	195
North Carolina.....	1,690	1,108	582	-	-	-
South Carolina.....	1,184	1,023	1/	1/	-	-
Georgia.....	8,922	7,451	1,252	219	-	-
Florida.....	44,477	19,572	24,905	-	-	-
South Atlantic.....	71,154	38,829	31,636	279	215	195
Kentucky.....	1,565	1,556	1/	1/	-	1/
Tennessee.....	8,880	8,337	1/	1/	-	1/
Alabama.....	2,590	2,473	117	-	-	-
Mississippi.....	504	484	20	-	-	-
E. South Central.....	13,539	12,850	403	1/	-	1/
Arkansas.....	3,444	3,327	1/	-	1/	-
Louisiana.....	3,299	2,798	501	-	-	-
Oklahoma.....	2,121	1,562	1/	1/	-	-
Texas.....	14,243	12,988	1/	1/	-	-
W. South Central.....	23,107	20,675	1,614	1/	1/	-
Montana.....	156	113	1/	1/	-	-
Idaho & Wyoming...	10,674	4,645	1/	1/	-	-
Colorado.....	3,357	3,008	1/	1/	-	-
New Mexico.....	181	1/	1/	-	-	-
Arizona.....	780	1/	-	1/	-	-
Utah & Nevada.....	2,196	2,135	1/	1/	-	-
Mountain.....	17,344	10,756	6,289	299	-	-
Washington.....	23,783	16,353	6,358	287	334	451
Oregon.....	23,090	12,346	10,602	1/	1/	55
California.....	57,048	38,258	17,652	1/	1/	903
Pacific.....	103,921	66,957	34,612	471	472	1,409
United States...	427,893	310,247	103,307	11,115	972	2,252

1/ Not shown to avoid disclosure of individual plant reports.

Table 8. --Gross refrigerated space, by type of warehouse, United States, October 1, 1963  
ABOVE ZERO° TO 50° F.

State and region	Total	Public	Private and semiprivate	Meat packers	Apple-houses	
					Public	Private and semiprivate
	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.
Maine.....	2,920	198	-	-	-	2,722
New Hampshire.....	2,113	1/	1/	-	-	2,098
Vermont.....	1,300	1/	1/	-	-	1,216
Massachusetts.....	10,961	3,866	1/	-	1/	6,565
Rhode Island.....	701	1/	1/	-	-	240
Connecticut.....	3,511	549	1/	-	1/	2,905
New England.....	21,506	5,067	434	-	259	15,746
New York.....	55,676	21,357	8,440	2,526	8,530	14,823
New Jersey.....	15,686	8,510	1/	-	1/	2,485
Pennsylvania.....	22,643	5,829	1/	1,392	1/	10,450
Middle Atlantic.....	94,005	35,696	16,259	3,918	10,374	27,758
Ohio.....	11,493	5,880	473	1/	1/	4,349
Indiana.....	4,018	1,098	1/	1,483	1/	894
Illinois.....	28,809	25,046	1/	2,081	1/	1/
Michigan.....	28,034	6,131	5,148	-	280	16,475
Wisconsin.....	24,875	13,812	9,463	1/	-	1/
E. North Central.....	97,229	51,967	16,044	5,730	1,123	22,365
Minnesota.....	5,564	1,692	2,367	1,505	-	-
Iowa.....	5,629	1,172	274	4,183	-	-
Missouri.....	10,352	6,532	1,619	1,690	1/	1/
North Dakota.....	(3,335	(61	(1/	(1/	(-	(-
South Dakota.....	(	(	(	(	(	(
Nebraska.....	3,738	1,560	1/	1/	-	-
Kansas.....	11,160	8,372	1/	2,575	-	1/
W. North Central.....	39,778	19,389	4,378	15,359	1/	1/
Delaware.....	265	165	100	-	-	-
Maryland & D. C....	3,608	1,017	103	1/	1/	1,426
Virginia.....	32,916	7,748	8,667	325	8,865	7,311
West Virginia.....	7,341	1,381	1/	1/	1/	5,093
North Carolina....	2,128	1,072	547	-	-	509
South Carolina....	327	136	1/	1/	-	-
Georgia.....	12,380	10,891	895	594	-	-
Florida.....	5,441	1,892	3,549	-	-	-
South Atlantic.....	64,406	24,302	14,012	1,947	9,806	14,339
Kentucky.....	1,073	935	1/	1/	-	1/
Tennessee.....	4,179	2,278	1/	1/	-	1/
Alabama.....	2,244	2,098	146	-	-	-
Mississippi.....	846	332	514	-	-	-
E. South Central.....	8,342	5,643	717	1/	-	1/
Arkansas.....	593	330	1/64	-	1/	-
Louisiana.....	1,897	1,833	-	-	-	-
Oklahoma.....	1,519	898	1/	1/	-	-
Texas.....	13,624	10,818	1/	1/	-	-
W. South Central.....	17,633	13,879	1,714	1/	1/	-
Montana.....	240	101	1/	1/	-	-
Idaho & Wyoming...	731	459	1/	1/	-	-
Colorado.....	1,228	803	1/	1/	-	-
New Mexico.....	224	1/	1/	-	-	-
Arizona.....	378	1/	-	1/	-	-
Utah & Nevada.....	825	535	1/	1/	-	-
Mountain.....	3,626	2,239	442	945	-	-
Washington.....	112,126	2,392	2,167	663	7,951	98,953
Oregon.....	19,404	2,756	1,366	1/	1/	14,516
California.....	50,784	11,803	23,012	1/	1/	11,928
Pacific.....	182,314	16,951	26,545	2,132	11,289	125,397
United States...	528,839	175,133	80,545	33,598	34,469	206,273

1/ Not shown to avoid disclosure of individual plant reports.

Table 9. --Usable refrigerated space, by type of warehouse, United States, October 1, 1963  
 ABOVE ZERO° F. TO 50° F.

State and region	Total	Public	Private and semiprivate	Meat packers	Apple-houses	
					Public	Private and semiprivate
	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.
Maine.....	2,401	135	-	-	-	2,266
New Hampshire.....	1,749	1/	1/	-	-	1,736
Vermont.....	1,094	1/	1/	-	-	1,019
Massachusetts.....	8,309	2,632	1/	-	1/	5,254
Rhode Island.....	532	1/	1/	-	-	201
Connecticut.....	2,831	418	1/	-	1/	2,366
New England.....	16,916	3,510	344	-	220	12,842
New York.....	43,625	16,606	5,645	1,912	6,853	12,609
New Jersey.....	10,666	5,421	1/	-	1/	2,036
Pennsylvania.....	17,033	4,132	1/	881	1/	8,427
Middle Atlantic.....	71,324	26,159	10,923	2,793	8,377	23,072
Ohio.....	8,777	4,235	320	1/	1/	3,531
Indiana.....	2,363	469	1/	730	1/	734
Illinois.....	21,221	18,757	1/	1,115	1/	1/
Michigan.....	22,283	4,737	3,892	-	230	13,424
Wisconsin.....	18,919	10,567	7,100	1/	-	1/
E. North Central.....	73,563	38,765	12,024	3,614	942	18,218
Minnesota.....	3,330	1,047	1,409	874	-	-
Iowa.....	3,732	784	176	2,772	-	-
Missouri.....	6,844	4,485	827	1,121	1/	1/
North Dakota.....	(2,078	(44	(1/	(1/	{	{
South Dakota.....	(	(	(	(	{	{
Nebraska.....	2,749	1,035	1/	1/	-	-
Kansas.....	7,920	5,991	1/	1,768	-	1/
W. North Central.....	26,653	13,386	2,491	10,250	1/	1/
Delaware.....	199	135	64	-	-	-
Maryland & D. C....	2,684	694	85	1/	1/	1,000
Virginia.....	26,552	5,951	7,523	194	7,175	5,709
West Virginia.....	6,084	1,142	1/	1/	1/	4,257
North Carolina.....	1,629	798	404	-	-	427
South Carolina.....	252	118	1/	1/	-	-
Georgia.....	9,434	8,171	750	513	-	-
Florida.....	4,136	1,158	2,978	-	-	-
South Atlantic.....	50,970	18,167	11,928	1,597	7,885	11,393
Kentucky.....	899	797	1/	1/	-	1/
Tennessee.....	3,235	1,774	1/	1/	-	1/
Alabama.....	1,694	1,596	98	-	-	-
Mississippi.....	657	251	406	-	-	-
E. South Central.....	6,485	4,418	549	1/	-	1/
Arkansas.....	472	244	1/	-	1/	-
Louisiana.....	1,319	1,262	57	-	-	-
Oklahoma.....	1,030	607	1/	1/	-	-
Texas.....	9,932	7,979	1/	1/	-	-
W. South Central.....	12,753	10,092	1,237	1/	1/	-
Montana.....	192	75	1/	1/	-	-
Idaho & Wyoming...	518	304	1/	1/	-	-
Colorado.....	983	674	1/	1/	-	-
New Mexico.....	169	1/	1/	-	-	-
Arizona.....	275	1/	-	1/	-	-
Utah & Nevada.....	538	350	1/	1/	-	-
Mountain.....	2,675	1,660	364	651	-	-
Washington.....	89,272	1,864	1,369	423	6,458	79,158
Oregon.....	15,389	2,276	970	1/	1/	11,661
California.....	38,438	8,890	17,006	1/	1/	9,464
Pacific.....	143,099	13,030	19,345	1,226	9,215	100,283
United States...	404,438	129,187	59,205	22,655	26,988	166,403

1/ Not shown to avoid disclosure of individual plant reports.

Table 10. --Warehouses, all types: Refrigerated storage capacity, in cities having 3 or more plants and at least 3 million cubic feet of usable piling space, October 1, 1963

City and State <sup>1/</sup>	Plants Number	Gross space			Usable piling space		
		Zero° F. or below 1,000 cu. ft.	Above 0° F. to 50° F. 1,000 cu. ft.	Total 1,000 cu. ft.	Zero° F. or below 1,000 cu. ft.	Above 0° F. to 50° F. 1,000 cu. ft.	Total 1,000 cu. ft.
Portland, Maine .....	10	4,101	355	4,456	3,053	273	3,326
Boston, Mass. ....	32	12,709	3,080	15,789	8,700	2,168	10,868
New York, N. Y. & Northeastern, N. J. Albany, Schenectady & Troy, N. Y. ....	85	28,119	20,058	48,177	20,184	13,729	33,913
Buffalo, N. Y. ....	8	2,726	1,782	4,508	2,134	1,311	3,445
Chicago, Ill. ....	40	3,311	5,131	8,442	2,468	3,962	6,430
Rochester, N. Y. ....	12	3,905	3,475	7,380	2,782	2,835	5,617
Philadelphia, Pa. ....	39	12,181	4,835	17,016	8,133	3,755	11,888
Pittsburgh, Pa. ....	10	4,808	2,498	7,306	3,684	1,633	5,317
Cincinnati, Ohio ....	6	2,679	1,401	4,080	2,345	1,184	3,529
Cleveland, Ohio ....	14	6,176	3,473	9,649	4,477	2,377	6,854
Chicago, Ill. ....	30	31,898	23,386	55,284	20,923	16,684	37,607
Detroit, Mich. ....	45	7,446	4,794	12,240	5,765	3,940	9,705
Grand Rapids, Mich. ...	82	639	4,943	5,582	492	4,041	4,533
Green Bay, Wis. ....	25	2,341	6,070	8,411	1,708	4,336	6,044
Milwaukee, Wis. ....	6	2,587	1,382	3,969	2,033	1,056	3,089
Minn.-St. Paul, Minn. ...	9	8,383	2,236	10,619	5,611	1,347	6,958
Kansas City, Kans. & Mo.	10	25,969	9,097	35,066	18,601	6,188	24,789
St. Louis, Mo. ....	13	7,038	5,682	12,720	5,003	4,438	9,441
Omaha, Nebr. ....	9	6,471	3,443	9,914	4,518	2,544	7,062
Wichita, Kans. ....	3	2,449	2,065	4,514	1,709	1,603	3,312
Baltimore, Md. ....	7	4,093	1,277	5,370	2,931	1,034	3,965
Atlanta, Ga. ....	9	6,599	5,232	11,831	4,800	3,798	8,598
Orlando, Fla. ....	5	9,874	-	9,874	7,570	-	7,570
Miami, Fla. ....	6	4,648	717	5,365	3,636	291	3,927
Nashville, Tenn. ....	6	4,157	1,098	5,255	2,918	838	3,756
Memphis, Tenn. ....	8	3,513	1,868	5,381	2,500	1,326	3,826
Dallas, Texas ....	7	6,785	7,065	13,850	4,967	5,123	10,090
Denver, Colo. ....	12	3,866	821	4,687	2,924	619	3,543
Seattle, Wash. ....	19	7,162	1,248	8,410	4,990	873	5,863
Portland, Ore. ....	20	10,652	1,853	12,505	8,135	1,090	9,225
Salem, Ore. ....	6	6,514	441	6,955	4,708	319	5,027
Fresno, Calif. ....	28	2,698	2,721	5,419	1,831	2,185	4,016
Los Angeles, Calif. ...	47	22,759	5,725	28,484	17,471	3,737	21,208
Sacramento, Calif. ...	7	4,216	1,882	6,098	3,310	1,477	4,787
San Francisco-Oakland, Calif. ....	13	7,036	1,947	8,983	4,569	1,336	5,905
San Jose, Calif. ....	17	9,291	3,437	12,728	7,292	2,800	10,092
Modesto, Calif. ....	4	5,501	99	5,600	4,489	74	4,563
Stockton, Calif. ....	14	1,782	2,854	4,636	1,471	2,339	3,810
<b>Total .....</b>	<b>723</b>	<b>297,082</b>	<b>149,471</b>	<b>446,553</b>	<b>214,835</b>	<b>108,663</b>	<b>323,498</b>

<sup>1/</sup> Standard metropolitan areas.

Table 11. --Public general warehouses: Refrigerated storage capacity in cities having 3 or more plants and at least 2 million cubic feet of usable piling space, October 1, 1963

City and State <sup>1/</sup>	Plants	Gross space			Usable piling space		
		Zero° F. or below	Above 0° F. to 50° F.	Total	Zero° F. or below	Above 0° F. to 50° F.	Total
		1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.
Portland, Me. ....	3	4,030	157	4,187	2,986	98	3,084
Boston, Mass. ....	15	11,722	2,412	14,134	7,966	1,608	9,574
New York, N. Y. & Northeastern N. J. ..	27	27,209	12,683	39,892	19,492	8,822	28,314
Albany, Schenectady & Troy, N. Y. ....	4	2,367	1,697	4,064	1,855	1,254	3,109
Buffalo, N. Y. ....	7	2,853	1,376	4,229	2,183	1,015	3,198
Rochester, N. Y. ....	6	3,577	1,269	4,846	2,539	1,054	3,593
Philadelphia, Pa. ....	15	10,928	1,980	12,908	7,147	1,384	8,531
Pittsburgh, Pa. ....	7	4,393	1,924	6,317	3,316	1,308	4,624
Cincinnati, Ohio ....	3	2,321	591	2,912	2,048	484	2,532
Cleveland, Ohio ....	4	6,165	3,265	9,430	4,469	2,208	6,677
Chicago, Ill. ....	24	30,842	20,835	51,677	20,298	15,206	35,504
Detroit, Mich. ....	7	6,887	3,467	10,354	5,307	2,842	8,149
Green Bay, Wis. ....	10	1,439	4,541	5,980	1,107	3,260	4,367
Milwaukee, Wis. ....	4	2,311	881	3,192	1,887	654	2,541
Minn.-St. Paul, Minn. .	7	7,070	1,040	8,110	4,800	626	5,426
St. Louis, Mo. ....	7	5,985	4,163	10,148	4,232	3,414	7,646
Kansas City, Kans. & Mo.	6	24,460	8,472	32,932	17,889	5,871	23,760
Omaha, Nebraska ....	4	4,923	1,314	6,237	3,539	863	4,402
Baltimore, Md. ....	5	4,007	379	4,386	2,856	228	3,084
Norfolk, Va. ....	5	1,840	1,387	3,227	1,328	1,034	2,362
Atlanta, Ga. ....	8	6,309	5,232	11,541	4,570	3,798	8,368
Columbus, Ga. ....	3	1,468	1,301	2,769	1,167	1,036	2,203
Jacksonville, Fla. ....	5	2,629	323	2,952	2,035	213	2,248
Miami, Fla. ....	6	4,648	717	5,365	3,636	291	3,927
Louisville, Ky. ....	3	1,421	935	2,356	1,208	797	2,005
Memphis, Tenn. ....	6	3,444	617	4,061	2,446	450	2,896
Nashville, Tenn. ....	4	3,889	856	4,745	2,752	628	3,380
Birmingham, Ala. ....	3	1,930	1,150	3,080	1,428	745	2,173
New Orleans, La. ....	5	2,737	1,562	4,299	1,859	1,046	2,905
Dallas, Texas ....	4	6,548	5,826	12,374	4,842	4,330	9,172
Fort Worth, Texas ....	3	2,199	1,335	3,534	1,394	918	2,312
Houston, Texas ....	3	2,781	429	3,210	1,884	238	2,122
San Antonio, Texas ....	3	1,291	1,426	2,717	1,032	1,062	2,094
Denver, Colo. ....	7	3,571	471	4,042	2,751	380	3,131
Seattle, Wash. ....	7	4,693	606	5,299	3,387	416	3,803
Tacoma, Wash. ....	6	3,049	176	3,225	2,157	83	2,240
Portland, Ore. ....	9	7,718	758	8,476	6,065	485	6,550
Salem, Ore. ....	3	3,355	116	3,471	2,532	79	2,611
Los Angeles, Calif. ...	27	17,154	2,141	19,295	13,199	1,326	14,525
Modesto, Calif. ....	3	4,360	99	4,459	3,669	74	3,743
Sacramento, Calif. ....	3	3,235	178	3,413	2,655	128	2,783
San Francisco, Calif. .	7	6,470	1,618	8,088	4,214	1,152	5,366
San Jose, Calif. ....	8	6,062	2,127	8,189	4,590	1,731	6,321
Total .....	299	266,290	103,832	370,122	192,716	74,639	267,355

<sup>1/</sup> Standard metropolitan areas.

Table 12. --Controlled atmosphere rooms, fishery products, and blast freezer space,  
Number of plants, October 1, 1963

State	Plants with controlled atmosphere rooms		Plants storing fishery products	Plants with blast freezer space
	Plants	Capacity		
	Number	1,000 Bushels		
Maine.....	19	454	9	7
New Hampshire.....	12	221	1	1
Vermont.....	1/	1/	1	-
Massachusetts.....	34	747	36	14
Rhode Island.....	1/	1/	3	2
Connecticut.....	12	170	3	2
New York.....	69	2,946	53	23
New Jersey.....	5	136	15	7
Pennsylvania.....	1/	1/	23	15
Ohio.....	-	-	20	6
Indiana.....	-	-	4	4
Illinois.....	-	-	21	12
Michigan.....	57	1,946	15	18
Wisconsin.....	-	-	15	10
Minnesota.....	-	-	9	17
Iowa.....	-	-	8	11
Missouri.....	-	-	8	10
N. & S. Dakota.....	-	-	2	4
Nebraska.....	-	-	5	6
Kansas.....	-	-	8	9
Delaware.....	-	-	2	6
Maryland & D. C.....	-	-	11	8
Virginia.....	3	188	13	10
West Virginia.....	-	-	1	1
North Carolina.....	-	-	8	5
South Carolina.....	-	-	4	4
Georgia.....	-	-	13	10
Florida.....	-	-	27	19
Kentucky.....	-	-	4	1
Tennessee.....	-	-	14	15
Alabama.....	-	-	5	4
Mississippi.....	-	-	7	2
Arkansas.....	-	-	4	9
Louisiana.....	-	-	7	6
Oklahoma.....	-	-	1	5
Texas.....	-	-	30	24
Montana.....	-	-	3	1
Idaho.....	-	-	3	6
Wyoming.....	-	-	-	-
Colorado.....	-	-	7	3
New Mexico.....	-	-	1	1
Arizona.....	-	-	5	1
Utah.....	-	-	2	2
Nevada.....	-	-	-	-
Washington.....	41	2,894	17	23
Oregon.....	1/	1/	7	22
California.....	6	748	42	68
Other States.....	7	675	-	-
United States.....	265	11,125	497	434

1/ Not shown to avoid disclosure of individual plant reports. Included in other States.

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 Agricultural Estimates Division  
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Table 13. --Alaska and Hawaii: Refrigerated warehouse capacity, October 1, 1963 and 1961

Type of Warehouse	Plants	Gross Space			Usable Piling Space		
		Zero° F. or below	Above 0° F. to 50° F.	Total	Zero° F. or below	Above 0° F. to 50° F.	Total
	Number	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.	1,000 cu. ft.
<u>1963</u>							
Alaska							
Public general.....	3	713	-	713	564	-	564
Other.....	7	583	594	1,177	429	395	824
Hawaii							
Public general.....	3	1,595	534	2,129	1,026	355	1,381
<u>1961</u>							
Alaska & Hawaii <sup>1/</sup>							
Public general.....	5	1,422	178	1,600	1,013	95	1,108
Other.....	6	838	321	1,159	581	257	838

<sup>1/</sup> Hawaii not shown separately because less than three plants operated in 1961. Capacity included with Alaska.