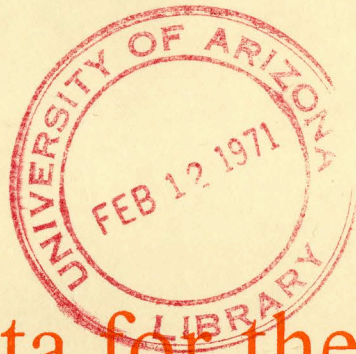


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October, 1970



Data for the

# DESERT CITRUS INDUSTRY

Agricultural Experiment Station  
The University of Arizona  
Tucson, Arizona 85721

DATA FOR THE DESERT  
CITRUS INDUSTRY

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## INTRODUCTION

### A. Background and Purpose

This report is essentially a revised and expanded version of Report 244, A Statistical Handbook for the Desert Citrus Industry, published in 1967. Report 244 is out of print; consequently, this report was prepared to meet the continuing needs of all individuals concerned with the production and marketing of Arizona citrus.

The major revisions are (1) conversion from box to carton units of measurement, (2) updating of most tables and charts by adding data for the 1967-68 and 1968-69 seasons, (3) elimination of a few tables on rail and truck shipments, and (4) elimination of data for the seasons prior to 1959-60.

Compared to Report 244, the coverage of this report is expanded by including (1) a brief descriptive statement for each section pointing out some of the important facts contained in that section's tables and charts, (2) detailed information on Arizona citrus acreage and tree numbers for 1969, (3) a new section on tangerines, (4) tables on packinghouse charges and picking and hauling charges, (5) yield data for lemons and oranges, and (6) additional tables and charts on the monthly shipment of fresh citrus from the producing districts in Arizona and California.

### B. Uses

In general, this report is designed as a statistical handbook to be used by a diverse audience, including producers, marketers, investors, financiers, researchers, and educators. The tables and charts contain most of the important historical data on acreage, production, utilization, shipments, prices, and costs for oranges, grapefruit, lemons, and tangerines. Most of the data are averages for an entire season for a fairly large geographic area; consequently, the information on items such as prices, costs and yields

may not correspond to the records of individual growers, packers, or shippers.

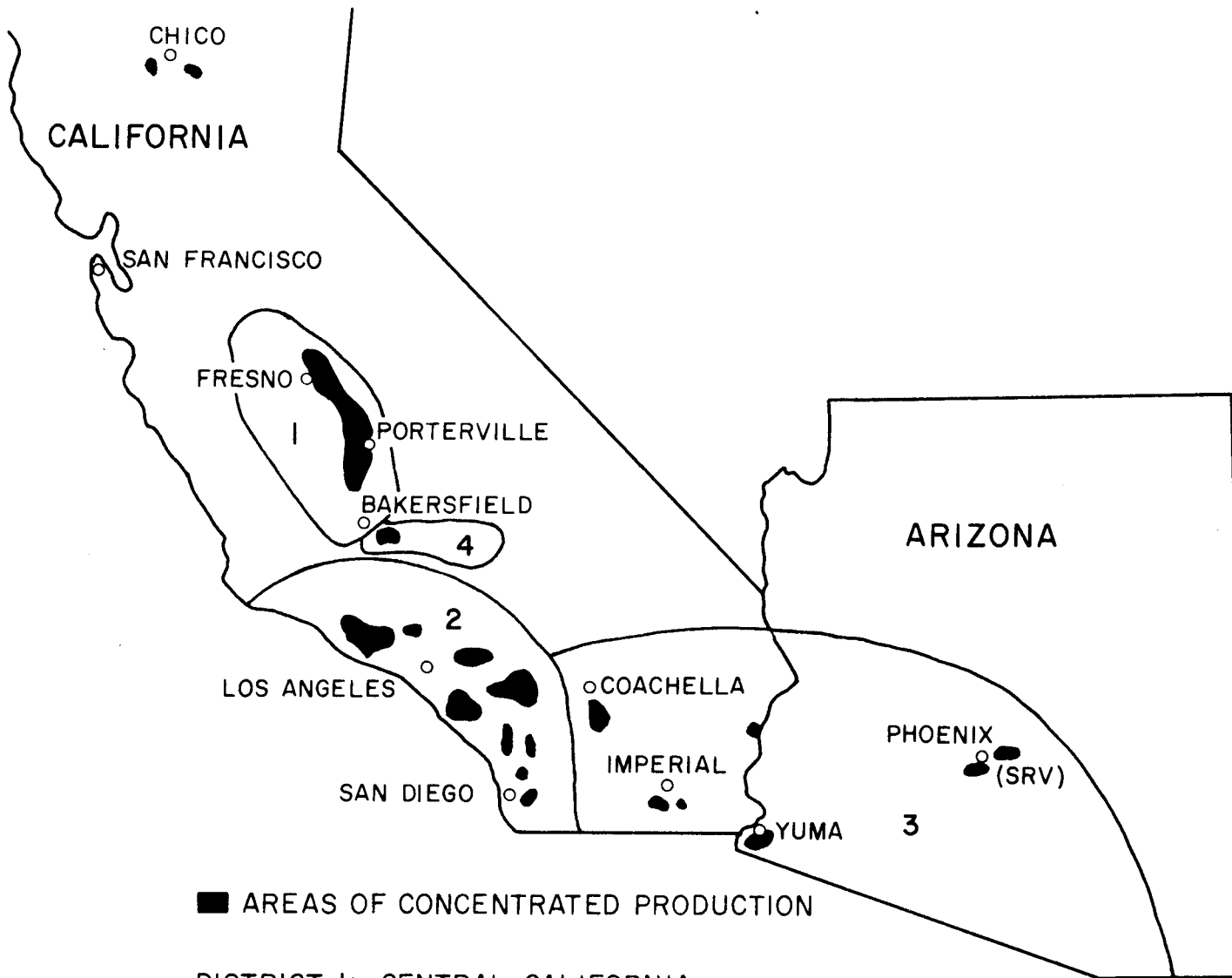
Although the emphasis is on the Arizona citrus industry, data for competing areas and states have been included. Consequently, it is possible to observe trends both within a particular area and between competing areas. The various citrus producing districts in Arizona and California are represented in Figure 1. These districts correspond with the producing district designations used in some of the tables.

The descriptive material at the beginning of each major section will assist the reader in interpreting the tables and charts; however, these descriptions are not intended to be comprehensive. Individual readers may need to make further analysis and interpretation of the data.

#### C. Definitions

A complete list of data sources for this report is presented in the bibliography. The primary sources of data were the U. S. Department of Agriculture and the annual reports of the Navel Orange, Valencia Orange, Grapefruit, and Lemon Administrative Committees.

Because the agencies providing the data use different definitions and estimating procedures for similar categories of information, some variation may exist between tables. Furthermore, citrus data are generally reported in terms of boxes---price per box, boxes of production, etc. Moreover, the net weight of the "standard box" varies between states and also within a particular state at different points in time. In order to adjust for these differences, most of the data in Report 244 was converted to standard box weights. However, since the pasteboard carton is the actual container for shipping fresh citrus from Arizona, industry representatives urged the authors to convert to carton units where possible. Consequently, all of the volume, price, and cost data in this report, except for the carlot unload figures, have been converted to the standard carton weights used in this report and in Report 244 is presented below:



■ AREAS OF CONCENTRATED PRODUCTION

DISTRICT 1: CENTRAL CALIFORNIA

DISTRICT 2: SOUTHERN CALIFORNIA

DISTRICT 3: ARIZONA & CALIFORNIA DESERT

DISTRICT 4: EDISON

NOTE: BEGINNING WITH THE 1968-69 SEASON, DISTRICT 4 AND THE CHICO AREA WERE INCLUDED IN DISTRICT 1 UNDER THE NAVAL ORANGE MARKETING ORDER.

FIGURE I. CITRUS PRODUCTION DISTRICTS IN ARIZONA AND CALIFORNIA.

	<u>This Report</u> (Carton Weights)	<u>Report 244</u> (Box Weights)
Oranges	37 1/2 Lbs.	75 Lbs.
Grapefruit	32 Lbs.	64 Lbs.
Lemons	38 Lbs.	76 Lbs.
Tangerines	28 Lbs.	Not Reported (75 lbs.)

Comparison of data between the two reports can be misleading unless the appropriate conversions are made. Conversion from boxes to cartons involves multiplication of the volume figures by two and division of the price and cost figures by two, except for tangerines.

The major price categories used in this report include equivalent on-tree returns, packinghouse door, and free-on-board (f.o.b.). The latter two categories relate only to that portion of the crop sold in fresh form. Three estimates of on-tree price are presented: (1) for all forms of sale, (2) for that portion of the crop sold for fresh use, and (3) for that portion of the crop sold for processing.

The three major price categories are related as follows: f.o.b. price minus packinghouse charges (grading, packaging, advertising, etc.) equals packinghouse door price; packinghouse door price minus picking and hauling charges equals equivalent on-tree returns. By using the data relating to fresh product prices, it was possible to estimate annual packinghouse charges and picking and hauling charges; these charges are included in this report.

Nearly all of the data presented in this report is on a crop season basis. The Statistical Reporting Service of the U. S. Department of Agriculture defines citrus crop seasons in terms of the time of bloom. Orange, grapefruit and tangerine trees generally bloom in late winter and early spring, and the fruit is picked 8 to 15 months after blooming. Thus, the 1968-69 crop season represents fruit harvested from the bloom



occurring early in calendar year 1968. The crop year for lemons is considered to be from November 1 to October 31. These dates were arbitrarily chosen because Southern California lemons, which make up the major part of the nation's lemon production, are harvested in all months of the year. The Orange, Grapefruit, and Lemon Administrative Committees functioning in Arizona and California use crop season definitions similar to those of the Statistical Reporting Service.

The marketing seasons associated with the citrus crop seasons vary according to variety and location. Normal marketing seasons for the varieties and producing areas included in this report are as follows:

ORANGES:

Arizona--Valencia, January 20 to June 30; Navel, November 1 to March 10;

California--Valencia, March 15 to December 15; Navel, November 5 to June 20;

Florida--Valencia, February 1 to July 5; early and midseason varieties, September 15 to April 1;

Texas--All varieties, September 25 to May 15;

Alabama, Louisiana, and Mississippi--All varieties, October 20 to March 1.

GRAPEFRUIT:

Arizona--November 1 to July 31;

California--Winter (Desert Valleys), November 15 to July 15;  
Summer (other areas), March 20 to October 31;

Florida--September 5 to June 10;

Texas--September 25 to May 30.

LEMONS:

Central California--November 5 to May 10;

Southern California--November 1 to October 31;

Arizona and California Desert--September 15 to March 1.

TANGERINES:

Arizona--November 15 to April 15 (light volume of late mandarin varieties continues into May);

California--November 10 to April 15 (light volume of late mandarin varieties continues into June);

Florida--October 20 to February 15.

## D. Acknowledgements

Overall responsibility for the preparation of the report was assumed by Roger Fox. C. Curtis Cable, Jr. supervised the preparation of the charts and wrote the descriptive statements at the beginning of each major section. William P. Gotsch compiled the basic data for most of the tables and constructed the initial set of charts. Lowell True and Robert Grounds, county agricultural agents for Maricopa and Yuma counties, respectively, provided the authors with a number of useful suggestions for improving the report. James F. Riggs, Agricultural Statistician with the Arizona Crop and Livestock Reporting Service, reviewed a final draft of the publication.

More detailed information concerning the data presented may be obtained by writing:

Department of Agricultural Economics  
The University of Arizona  
Tucson, Arizona 85721

To meet the continuing need for basic information about the citrus industry, periodic supplements to this report are planned. The supplements will contain the most recent data corresponding to the tables and figures in this report, as well as any new categories of information available.

## ORANGES

Arizona orange acreage increased from 7,400 acres in 1959-60 to 18,800 acres in 1968-69, an increase of 11,400 acres. During the same period, orange acreage in California and Florida increased 11,800 and 229,900 acres, respectively.

Arizona produced almost 10.8 million cartons (37.5 pounds per carton) of oranges in 1968-69 (Figure 2). This is about 3.5 times the 1959-60 production. However, Arizona's 1968-69 production accounted for only 2.5 percent of the U. S. total of 420 million cartons. Florida produced 74 percent and California 21 percent of the U. S. total.

Approximately 48 percent of U. S. orange production in 1968-69 was Valencias, most of the remainder was early and midseason varieties, including Navels. However, Valencias accounted for about 80 percent of Arizona's production.

In 1959-60, fresh orange sales from Arizona, California, Florida and Texas totaled 102.4 million cartons. By 1968-69, the total was 101.0 million cartons. This small decline in total fresh sales, even though U. S. population increased about 20 million, reflects the 10-year decline of about 5 pounds in per capita consumption of fresh oranges (Figure 19). In contrast, the quantity of oranges processed from these four states increased from 185.3 million cartons in 1959-60 to 331.6 million cartons in 1968-69. This increase reflects an overall increase of 4.6 pounds in per capita consumption of chilled and frozen orange juice (Figure 20), and the increase in population.

Although total fresh orange sales from the four states declined during the 1960's, fresh sales of all oranges from Arizona and California increased almost 13.5 million cartons. In 1968-69, 52 percent of the

Valencia and 76 percent of the Navel production in California were sold fresh (Figures 3 and 4). For the same season in Arizona 58 percent of the Valencia and 79 percent of the Navel production were sold fresh. In comparison, roughly 90 percent of Florida's 1968-69 orange crop entered processing outlets.

With respect to the Arizona and California producing areas (see Figure 1), the Desert District accounted for 15 percent of the 1968-69 Valencia production, and less than 4 percent of the Navels. About 57 percent of the Valencias and 87 percent of the Navels produced in this district were sold fresh.

Slightly more than half of the Valencias produced in this two-state area in 1968-69 were grown in the Southern California District, and more than four-fifths of the Navels were grown in the Central California District.

Valencias are a spring and summer crop in Arizona and California, and Navels are marketed during the winter months (see Figures 5 and 6).

On tree returns for oranges fluctuate widely from year to year (see Figures 7 and 8). This is due primarily to similar fluctuations in orange prices. In contrast, costs for picking, hauling and packing gradually increased during the 1960's.

TABLE 0-1. ORANGE ACREAGE: BEARING ACREAGE BY MAJOR PRODUCING STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	Texas
(Thousand Acres)				
1959-60	7.4	138.7	391.6	31.9
1960-61	7.7	136.5	397.8	<u>1/</u>
1961-62	8.7	131.6	429.8	<u>1/</u>
1962-63	9.8	127.8	387.0	<u>1/</u>
1963-64	11.7	127.7	404.0	<u>1/</u>
1964-65	13.8	125.8	451.0	<u>1/</u>
1965-66	14.1	128.7	489.0	<u>1/</u>
1966-67	16.4	130.4	540.0	<u>1/</u>
1967-68	17.0	139.9	595.9	<u>1/</u>
1968-69	18.8	150.5	621.5	6.3

1/ Not available.

Source: (2).

TABLE 0-2. ORANGE PRODUCTION: TOTAL BY STATE AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	Texas	Other <sup><u>1/</u></sup>	United States
(Thousand Packed 37.5-Pound Cartons)						
1959-60	3,000	61,600	219,600	6,480	624	291,304
1960-61	2,320	50,000	208,080	8,400	660	269,460
1961-62	2,880	41,000	272,160	5,520	612	322,172
1962-63	3,120	57,200	178,800	96	36	239,252
1963-64	4,400	63,400	139,920	576	36	208,332
1964-65	4,840	62,400	206,880	2,112	24	276,256
1965-66	4,840	73,000	240,960	3,120	<u>2/</u>	321,920
1966-67	7,820	74,800	334,800	6,720	<u>2/</u>	424,140
1967-68	6,240	38,300	241,200	4,320	<u>2/</u>	290,060
1968-69	10,760	87,200	311,280	10,800	<u>2/</u>	420,040

1/ Includes Alabama, Louisiana and Mississippi.

2/ Estimates discontinued.

Sources: (13), (14), (15), (16).

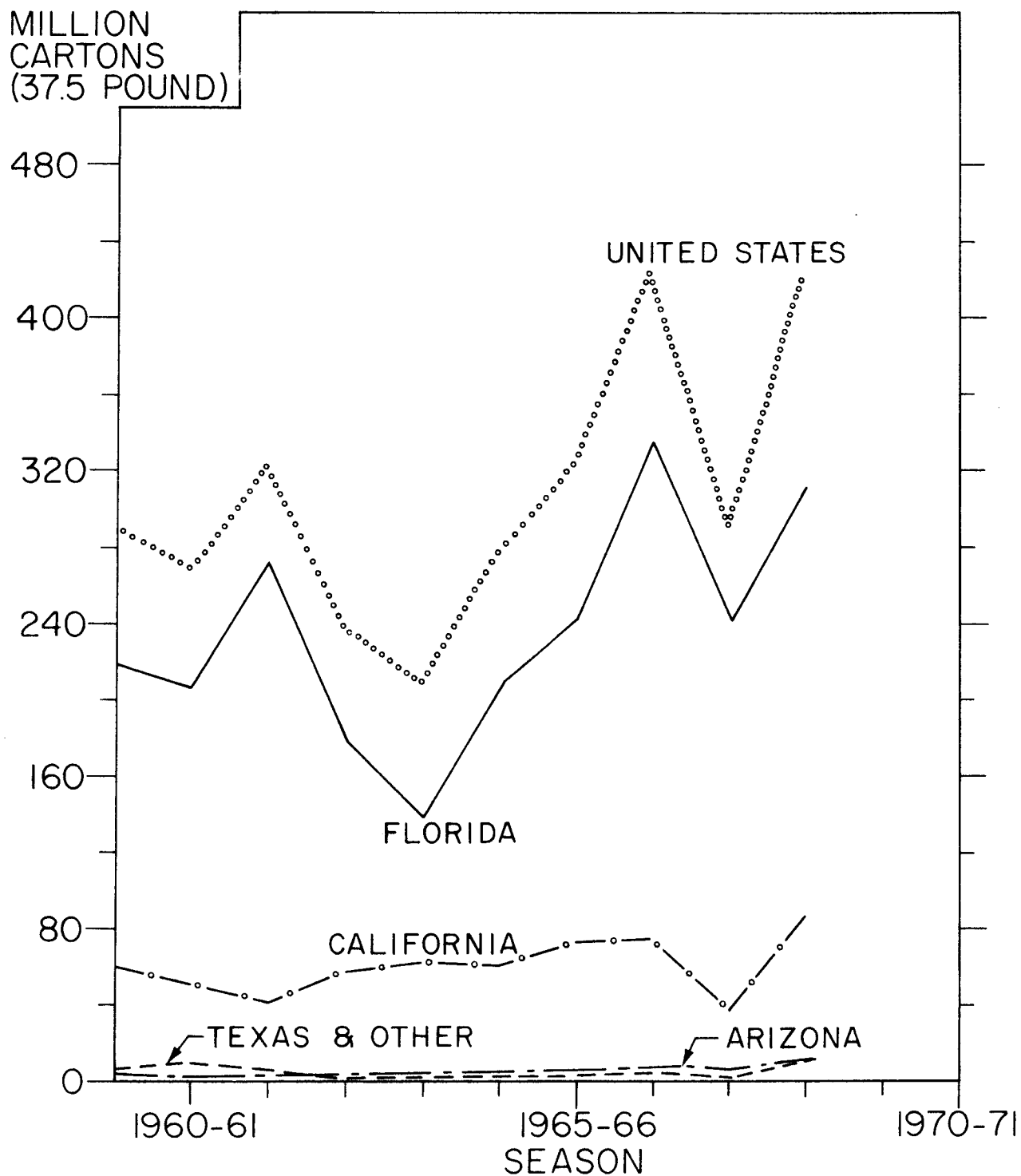


FIGURE 2. TOTAL ORANGE PRODUCTION BY STATE AND UNITED STATES, 1959-60 THROUGH 1968-69.

SOURCE: TABLE 0-2.

TABLE 0-3. VALENCIA ORANGE PRODUCTION: TOTAL BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	Texas	Total <sup>1/</sup>
(Thousand Packed 37.5-Pound Cartons)					
1959-60	1,880	34,600	102,000	2,880	141,360
1960-61	1,440	32,000	85,680	3,600	122,720
1961-62	1,600	26,200	135,600	1,560	164,960
1962-63	1,840	32,400	69,600	36	103,876
1963-64	2,540	33,400	73,200	216	109,356
1964-65	3,500	32,000	95,520	744	131,764
1965-66	2,920	35,600	117,360	1,008	156,888
1966-67	6,100	40,000	159,120	2,640	207,860
1967-68	4,480	20,000	117,840	1,992	144,312
1968-69	8,220	50,000	144,000	4,080	206,300

<sup>1/</sup> Does not include Alabama, Louisiana, or Mississippi.

Sources: (13), (14), (15), (16).

TABLE 0-4. NAVEL AND OTHER ORANGE PRODUCTION: TOTAL BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona <sup>1/</sup>	California <sup>1/</sup>	Florida <sup>2/</sup>	Texas <sup>2/</sup>	Total <sup>3/</sup>
(Thousand Packed 37.5-Pound Cartons)					
1959-60	1,120	27,000	117,600	3,600	149,320
1960-61	880	18,000	122,400	4,800	146,080
1961-62	1,280	14,800	136,560	3,960	156,600
1962-63	1,280	24,800	109,200	60	135,340
1963-64	1,860	30,000	66,720	360	98,940
1964-65	1,340	30,400	111,360	1,368	144,468
1965-66	1,920	37,400	123,600	2,112	165,032
1966-67	1,720	34,800	187,680	4,080	228,280
1967-68	1,760	18,300	134,160	2,328	156,548
1968-69	2,540	37,200	178,080	6,720	224,540

<sup>1/</sup> Primarily Navels, plus small quantities of other oranges; also includes tangerines prior to the 1964-65 season in Arizona and prior to 1961-62 in California.

<sup>2/</sup> Early and midseason varieties: Florida production excludes tangerines; Texas production includes small quantities of tangerines.

<sup>3/</sup> Does not include Alabama, Louisiana, or Mississippi.

Sources: (13), (14), (15), (16).



TABLE 0-5. FRESH ORANGE SALES: TOTAL BY VARIETY AND STATE, SEASONS  
1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
(Thousand Packed 37.5-Pound Cartons)							
1959-60	1,500	21,960	21,644	922	23,100	28,192	5,074
1960-61	1,240	21,760	15,262	780	16,500	24,986	6,120
1961-62	1,154	17,260	22,500	1,100	12,920	27,696	2,960
1962-63	912	18,380	8,140	1,060	17,600	19,892	60
1963-64	1,932	19,600	13,076	1,368	24,700	17,704	480
1964-65	2,296	21,920	15,504	1,106	27,020	23,146	1,904
1965-66	1,782	21,900	14,048	1,524	28,180	26,926	2,672
1966-67	3,348	24,120	17,892	1,282	29,180	30,296	4,296
1967-68	3,452	12,220	17,652	1,590	11,060	28,180	3,456
1968-69	4,740	25,800	12,208	2,018	28,380	22,848	5,088

<sup>1/</sup> See footnotes one and two, Table 0-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

Sources: (13), (14), (15), (16).

TABLE 0-6. ORANGES PROCESSED: TOTAL BY VARIETY AND STATE, SEASONS  
1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
(Equivalent Thousand Packed 37.5-Pound Cartons)							
1959-60	360	12,120	79,636	178	3,300	88,532	1,238
1960-61	180	9,700	69,698	80	1,020	96,478	2,112
1961-62	426	8,480	112,260	160	1,400	107,844	2,476
1962-63	908	13,620	60,860	200	6,540	88,528	0
1963-64	588	13,000	59,404	472	4,600	48,200	68
1964-65	1,184	9,480	79,176	214	2,580	87,278	180
1965-66	1,118	13,100	102,472	376	8,220	95,594	364
1966-67	2,722	15,280	140,388	424	4,720	156,304	2,088
1967-68	1,000	7,680	99,348	156	7,140	100,822	768
1968-69	3,448	24,000	130,952	506	18,670	148,400	5,592

<sup>1/</sup> See footnotes one and two, Table 0-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

Sources: (13), (14), (15), (16).

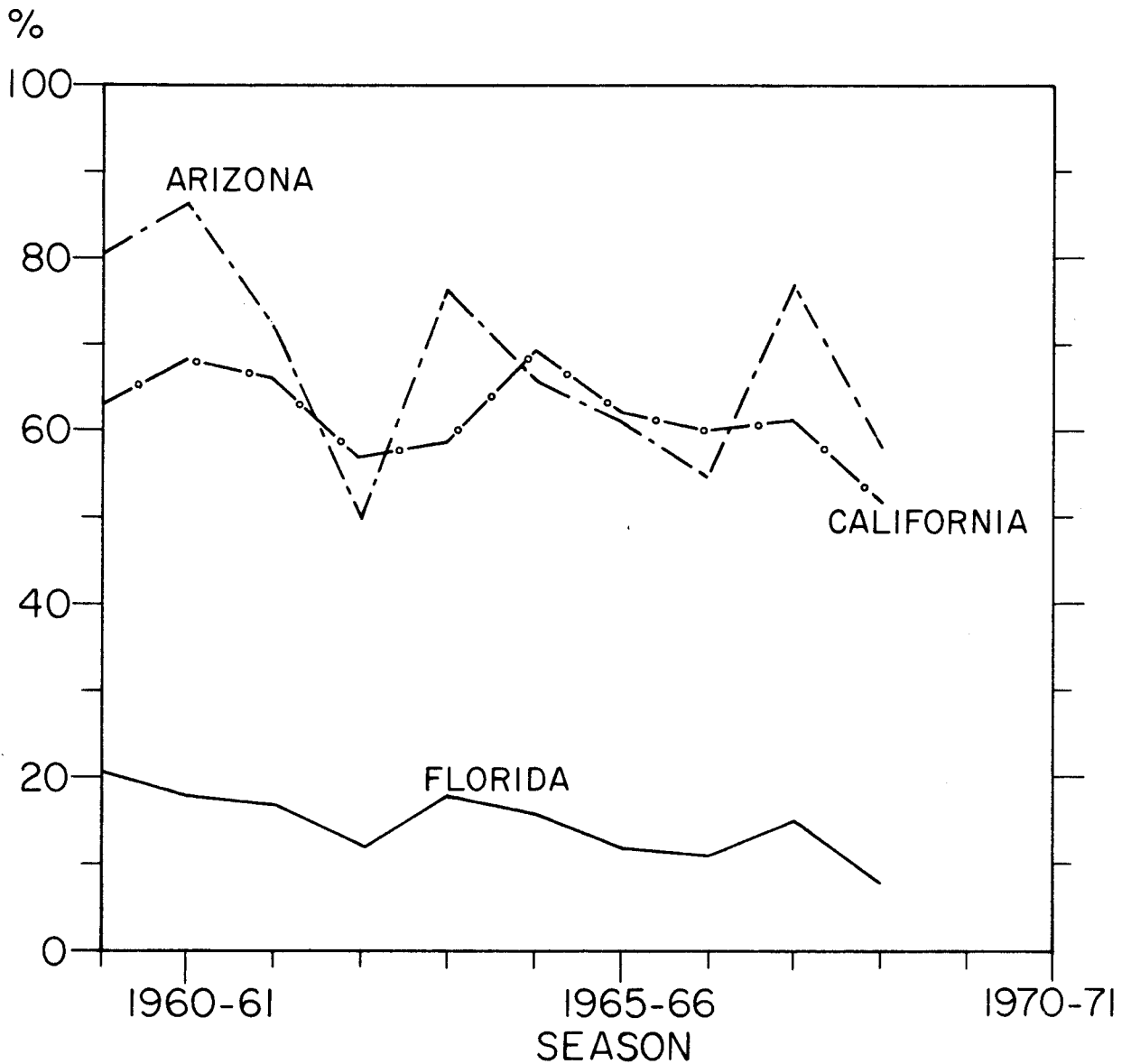


FIGURE 3. PERCENT OF TOTAL VALENCIA ORANGE PRODUCTION SOLD FRESH, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES O-3 AND O-5.

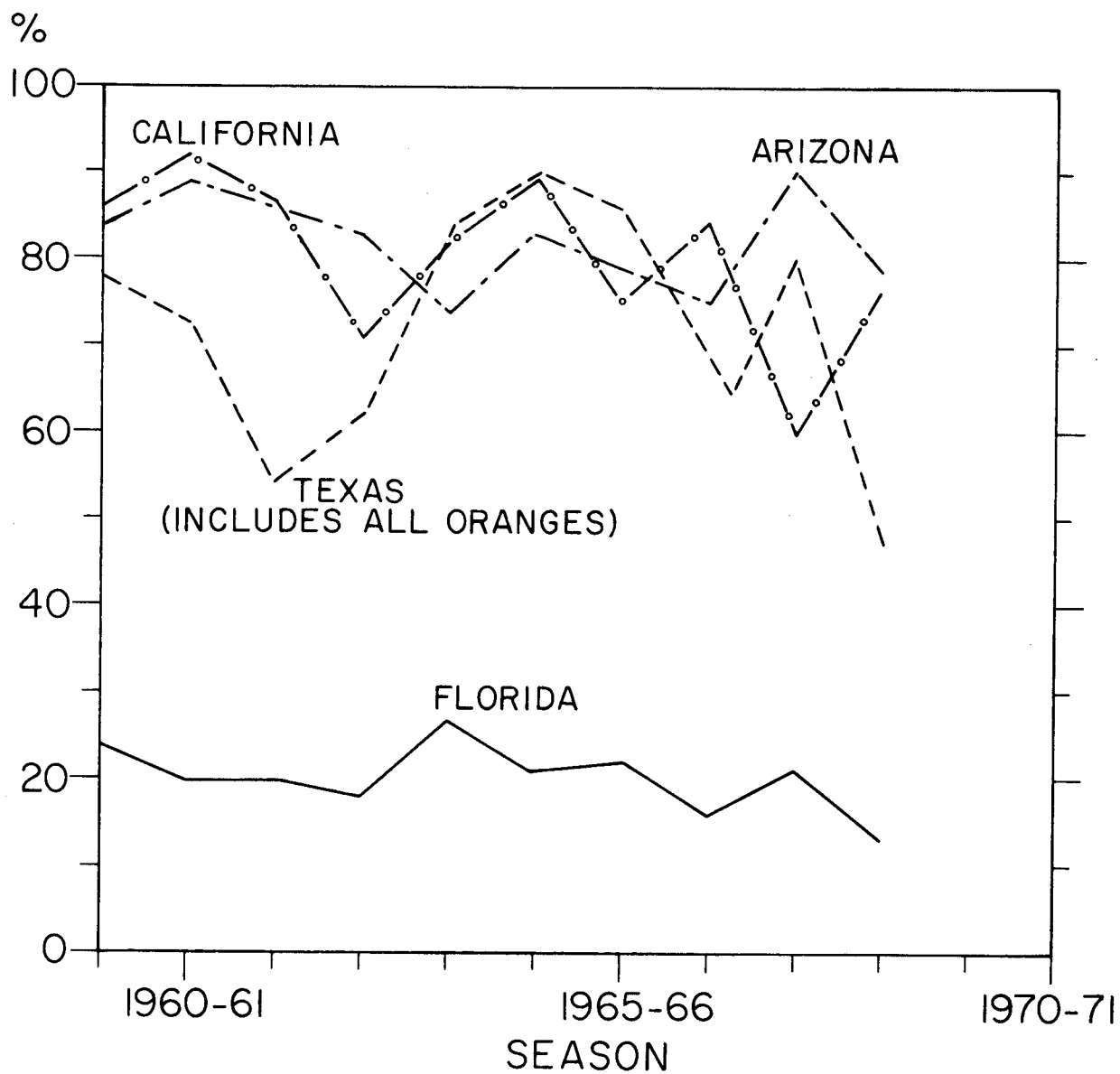


FIGURE 4. PERCENT OF TOTAL NAVEL ORANGE PRODUCTION SOLD FRESH, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES O-4 AND O-5.

TABLE 0-7. ARIZONA-CALIFORNIA VALENCIA ORANGE ACREAGE: HARVESTED ACREAGE BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Total
(Acres)				
1959-60	4,781	12,150	70,316	87,247
1960-61	5,721	12,556	65,239	83,516
1961-62	6,633	13,734	61,807	82,174
1962-63	7,368	14,713	55,051	77,132
1963-64	10,195	18,547	56,357	85,099
1964-65	12,450	21,692	55,200	89,342
1965-66	13,300	25,204	54,369	92,873
1966-67	17,266	27,420	56,423	101,109
1967-68	18,638	22,394	54,098	95,130
1968-69	20,816	31,457	52,996	105,269

Source: (18).

TABLE 0-8. ARIZONA-CALIFORNIA NAVEL ORANGE ACREAGE: HARVESTED ACREAGE BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Edison	Total
(Acres)					
1959-60	2,807	32,081	29,797	667	65,352
1960-61	2,895	33,062	28,464	680	65,101
1961-62	3,119	35,380	27,664	654	66,817
1962-63	3,271	37,402	26,610	748	68,031
1963-64	3,609	39,793	26,136	937	70,475
1964-65	3,908	44,651	25,309	1,451	75,319
1965-66	3,874	50,150	24,519	1,784	80,327
1966-67	3,870	54,611	25,159	2,093	85,733
1967-68	4,027	57,098	24,721	2,211	88,057
1968-69	4,142	71,062	21,547	<u>1/</u>	96,751

1/ Included in Central California.

Source: (5).

TABLE O-9 ARIZONA-CALIFORNIA VALENCIA ORANGE YIELDS: BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona and California Desert	Central California	Southern California
(37.5-Pound Cartons Per Acre)			
1959-60	422	453	412
1960-61	263	267	436
1961-62	256	265	361
1962-63	259	342	468
1963-64	269	444	435
1964-65	296	368	428
1965-66	235	517	412
1966-67	364	379	520
1967-68	265	225	272
1968-69	441	637	585

Sources: Tables 0-7 and 0-11

TABLE O-10 ARIZONA-CALIFORNIA NAVEL ORANGE YIELDS: BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona and California Desert	Central California	Southern California	Edison
(37.5-Pound Cartons Per Acre)				
1959-60	215	486	337	432
1960-61	169	261	308	59
1961-62	239	165	313	49
1962-63	243	389	356	307
1963-64	324	463	416	296
1964-65	216	438	391	153
1965-66	327	556	352	326
1966-67	262	422	421	289
1967-68	261	216	225	138
1968-69	358	464	251	1 <sub>/</sub>

1/ Included in Central California.

Sources: Tables 0-8 and 0-12.

TABLE 0-11. ARIZONA-CALIFORNIA VALENCIA ORANGE PRODUCTION: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Total
(Thousand Packed 37.5-Pound Cartons)				
1959-60	2,018	5,501	28,964	36,483
1960-61	1,502	3,358	28,428	33,288
1961-62	1,696	3,633	22,292	27,621
1962-63	1,907	5,026	27,155	34,088
1963-64	2,742	8,230	24,532	35,504
1964-65	3,685	7,973	23,640	35,298
1965-66	3,119	13,023	22,416	38,558
1966-67	6,274	10,386	29,334	45,994
1967-68	4,948	5,048	14,731	24,727
1968-69	9,185	20,026	30,991	60,202

Source: (18).

TABLE 0-12. ARIZONA-CALIFORNIA NAVAL ORANGE PRODUCTION: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Edison	Total
(Thousand Packed 37.5-Pound Cartons)					
1959-60	603	15,578	10,051	288	26,520
1960-61	490	8,629	8,756	40	17,915
1961-62	747	5,851	8,666	32	15,296
1962-63	794	14,541	9,470	230	25,035
1963-64	1,170	18,431	10,883	277	30,761
1964-65	845	19,565	9,897	222	30,529
1965-66	1,268	27,902	8,634	581	38,385
1966-67	1,015	23,043	10,593	605	35,256
1967-68	1,052	12,318	5,562	305	19,237
1968-69	1,482	32,962	5,407	<u>1/</u>	39,851

1/ Included in Central California.

Source: (5).

TABLE 0-13. ARIZONA-CALIFORNIA FRESH VALENCIA ORANGE SALES: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona & California	Central	Southern	Total
	Desert	California	California	
(Thousand Packed 37.5-Pound Cartons)				
1959-60	1,625	4,778	17,156	23,559
1960-61	1,311	2,674	18,988	22,973
1961-62	1,240	1,883	15,249	18,372
1962-63	964	2,035	16,266	19,265
1963-64	2,099	6,497	12,801	21,397
1964-65	2,438	5,909	15,889	24,236
1965-66	1,936	9,096	12,665	23,697
1966-67	3,550	7,602	16,366	27,518
1967-68	3,852	1,290	10,612	15,754
1968-69	5,204	11,920	11,477	28,601

<sup>1/</sup> Sales include intrastate, interstate, and export shipments.

Source: (18).

TABLE 0-14. ARIZONA- CALIFORNIA FRESH NAVEL ORANGE SALES: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona & California	Central	Southern	Edison	Total
	Desert	California	California		
(Thousand Packed 37.5-Pound Cartons)					
1959-60	566	14,134	7,850	259	22,809
1960-61	470	8,104	7,958	35	16,567
1961-62	719	5,493	7,364	28	13,604
1962-63	707	9,375	7,643	210	17,935
1963-64	1,050	16,119	8,152	255	25,576
1964-65	759	17,570	8,746	195	27,270
1965-66	1,108	21,171	6,378	462	29,119
1966-67	852	19,281	8,937	522	29,592
1967-68	997	5,867	4,672	243	11,779
1968-69	1,282	24,974	3,312	<u>2/</u>	29,568

<sup>1/</sup> Sales include intrastate, interstate, and export shipments.

<sup>2/</sup> Included in Central California

Source: (5)

TABLE 0-15. ARIZONA-CALIFORNIA VALENCIA ORANGES PROCESSED: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Total
(Equivalent Thousand Packed 37.5-Pound Cartons)				
1959-60	383	676	11,475	12,534
1960-61	180	649	9,027	9,856
1961-62	438	1,715	6,769	8,922
1962-63	934	2,968	10,618	14,520
1963-64	631	1,593	11,210	13,434
1964-65	1,235	1,978	7,454	10,667
1965-66	1,168	3,754	9,444	14,366
1966-67	2,700	2,642	12,644	17,986
1967-68	1,086	3,699	3,933	8,718
1968-69	3,970	7,839	19,234	31,043

Source: (18).

TABLE 0-16. ARIZONA-CALIFORNIA NAVAL ORANGES PROCESSED: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Edison	Total
(Equivalent Thousand Packed 37.5-Pound Cartons)					
1959-60	24	1,182	2,082	13	3,301
1960-61	13	314	708	<u>1/</u>	1,035
1961-62	15	240	1,144	2	1,401
1962-63	70	4,799	1,742	4	6,615
1963-64	99	1,984	2,560	7	4,650
1964-65	72	1,542	998	13	2,625
1965-66	137	6,062	2,070	80	8,349
1966-67	143	3,123	1,501	51	4,818
1967-68	44	6,266	783	50	7,143
1968-69	184	6,858	1,803	<u>2/</u>	8,845

1/ Less than 500 packed cartons.2/ Included in Central California.

Source: (5).



TABLE 0-17. ARIZONA-CALIFORNIA VALENCIA ORANGE EXPORTS: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Total
(Thousand Packed 37.5-Pound Cartons)				
1959-60	211	592	2,613	3,416
1960-61	115	278	3,986	4,279
1961-62	84	49	3,610	3,743
1962-63	31	21	3,512	3,564
1963-64	108	977	2,416	3,501
1964-65	244	1,101	3,349	4,694
1965-66	380	1,700	3,253	5,333
1966-67	673	2,029	4,137	6,839
1967-68	317	8	1,466	1,791
1968-69	784	2,845	2,626	6,255

Source: (18).

TABLE 0-18. ARIZONA-CALIFORNIA NAVEL ORANGE EXPORTS: TOTAL BY PRODUCING DISTRICT, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona & California Desert	Central California	Southern California	Edison	Total
(Thousand Packed 37.5-Pound Cartons)					
1959-60	9	837	306	16	1,168
1960-61	8	217	451	1	677
1961-62	20	69	357	2	448
1962-63	27	122	449	7	605
1963-64	28	318	737	17	1,100
1964-65	36	120	625	4	785
1965-66	54	702	807	17	1,580
1966-67	31	307	762	15	1,115
1967-68	30	262	348	6	646
1968-69	64	1,278	120	<u>1/</u>	1,462

1/ Included in Central California.

Source: (5).

TABLE 0-19. ARIZONA AND CALIFORNIA DESERT VALENCIA ORANGE SHIPMENTS: MONTHLY SHIPMENTS OF FRESH VALENCIA ORANGES, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season <sup>2/</sup>	Month										Total <sup>4/</sup>	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
	(Thousand Packed 37.5-Pound Cartons)											
1959-60	0	98	793	477	223	29	5	0	0	0	0	1,625
1960-61	5	130	669	415	91	1	0	0	0	0	0	1,311
1961-62	3/	223	473	398	137	9	0	0	0	0	0	1,240
1962-63	7	51	381	371	133	20	0	0	0	0	0	964
1963-64	19	161	336	832	625	127	1	0	0	0	0	2,099
1964-65	2	63	377	976	588	341	90	1	0	0	0	2,438
1965-66	0	62	609	670	510	83	1	0	0	0	0	1,936
1966-67	0	110	733	1,091	879	646	55	25	10	1	1	3,550
1967-68	0	369	992	1,504	764	165	52	6	0	0	0	3,852
1968-69	0	283	1,461	1,370	991	695	256	79	48	21	21	5,204

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Valencia season traditionally identified on a crop-year basis; however, harvest and shipment occurs during the calendar year. For example, shipments of the 1959-60 crop took place from February through July of 1960.

<sup>3/</sup> Lots of less than 500 cartons.

<sup>4/</sup> Summation of monthly shipments may not equal total due to rounding and small lots.

Source: (18).

TABLE 0-20. CENTRAL CALIFORNIA VALENCIA ORANGE SHIPMENTS: MONTHLY SHIPMENTS OF FRESH VALENCIA ORANGES, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season <sup>2/</sup>	Month												Total <sup>4/</sup>
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
1959-60	130	1,949	2,134	494	44	0	25	2	1	0	4,778		
1960-61	92	1,129	1,248	199	6	3/	3/	0	1	0	2,674		
1961-62	1	605	1,088	146	36	6	0	0	3/	0	1,883		
1962-63	0	152	1,643	210	28	3/	3/	1	0	0	2,035		
1963-64	1	2,150	2,938	1,156	202	16	34	0	0	0	6,497		
1964-65	0	1,054	2,465	1,562	561	105	158	3	3/	3/	5,909		
1965-66	0	827	3,338	2,140	1,034	727	688	334	8	0	9,096		
1966-67	17	823	2,224	2,120	872	824	488	223	11	0	7,602		
1967-68	0	386	635	214	40	5	8	2	0	0	1,290		
1968-69	56	1,046	2,657	1,954	1,523	1,707	2,021	767	187	1	11,920		

(Thousand Packed 37.5-Pound Cartons)

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Valencia season traditionally identified on a crop-year basis; however, harvest and shipment occurs during the calendar year. For example, shipment of the 1959-60 crop took place from March through November of 1960.

<sup>3/</sup> Lots of less than 500 cartons.

<sup>4/</sup> Summation of monthly shipments may not equal total due to rounding and small lots.

Source: (18).

TABLE 0-21. SOUTHERN CALIFORNIA VALENCIA ORANGE SHIPMENTS: MONTHLY SHIPMENTS OF FRESH VALENCIA ORANGES, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season <sup>2/</sup>	Month												Total <sup>3/</sup>
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
	(Thousand Packed 37.5-Pound Cartons)												
1959-60	87	592	1,846	3,288	2,938	2,607	3,254	2,050	471	21	17,156		
1960-61	34	413	2,118	3,399	2,979	3,516	3,007	2,167	1,284	72 <sup>4/</sup>	18,988		
1961-62	16	526	2,375	2,274	2,303	2,897	2,304	1,709	820	25	15,249		
1962-63	13	143	2,242	2,837	2,695	3,229	2,203	2,517	373	15	16,266		
1963-64	0	193	1,150	1,848	3,036	2,326	2,191	1,799	255	4	12,801		
1964-65	0	46	932	2,394	2,981	2,824	3,357	2,272	964	119	15,889		
1965-66	0	117	1,283	1,976	1,920	2,084	2,710	1,801	742	32	12,665		
1966-67	0	156	1,485	3,026	2,474	3,733	2,658	1,946	875	13	16,366		
1967-68	0	213	1,054	1,490	2,049	1,767	1,949	1,837	246	7	10,612		
1968-69	22	674	1,607	2,237	1,780	1,702	2,029	1,215	200	10	11,477		

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Valencia season traditionally identified on a crop-year basis; however, harvest and shipment occur during the calendar year. For example, shipment of the 1959-60 crop took place from March through December of 1960.

<sup>3/</sup> Summation of monthly shipments may not equal total due to rounding.

<sup>4/</sup> Includes 1,000 cartons shipped January 1962.

Source: (18).

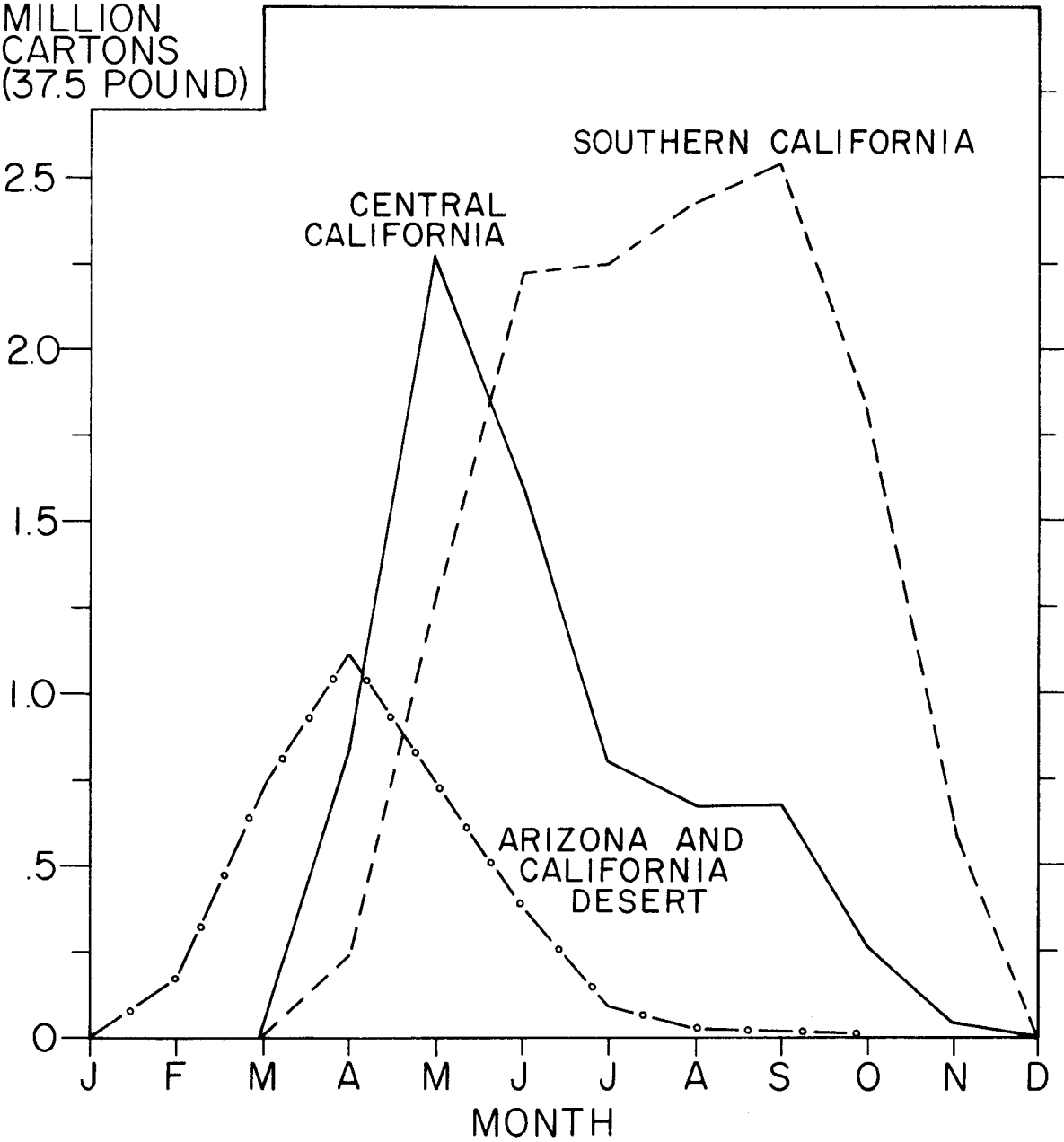


FIGURE 5. MONTHLY SHIPMENTS OF FRESH VALENCIA ORANGES, BY DISTRICT, FIVE YEAR AVERAGE, 1964 - 65 THROUGH 1968 - 69.

SOURCES: TABLES O-19, O-20, AND O-21.

TABLE 0-22. ARIZONA AND CALIFORNIA DESERT NAVEL ORANGE SHIPMENTS: MONTHLY SHIPMENTS OF FRESH NAVEL ORANGES, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Month						Total <sup>3/</sup>	
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.		Apr.
1959-60	2/	80	362	115	5	4	0	566
1960-61	2/	139	295	36	0	0	0	470
1961-62	0	207	412	99	1	0	0	719
1962-63	0	121	400	180	5	0	0	707
1963-64	0	254	586	208	2	0	0	1,050
1964-65	0	102	580	76	2	0	0	759
1965-66	0	62	581	367	94	5	0	1,108
1966-67	0	142	574	132	4	0	0	852
1967-68	0	294	541	155	6	2/	0	997
1968-69	2	315	623	274	63	2	2	1,282

(Thousand Packed 37.5-Pound Cartons)

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Lots of less than 500 cartons.

<sup>3/</sup> Summation of monthly shipments may not equal total due to rounding and small lots.

Source: (5).

TABLE O-23. CENTRAL CALIFORNIA NAVEL ORANGE SHIPMENTS<sup>1/</sup>: MONTHLY SHIPMENTS OF FRESH NAVEL ORANGES, SEASONS 1959-60 THROUGH 1968-69<sup>2/</sup>.

Season	Month												Total <sup>3/</sup>
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July			
	(Thousand Packed 37.5-Pound Cartons)												
1959-60	8	2,464	4,152	3,288	2,732	1,663	85	0	0	0	0	0	14,393
1960-61	0	889	3,609	1,966	1,419	257	0	0	0	0	0	0	8,139
1961-62	0	899	2,153	1,422	773	275	0	0	0	0	0	0	5,521
1962-63	0	1,921	3,890	2,995	695	56	27	3/	0	0	0	0	9,585
1963-64	0	1,870	4,158	4,290	3,317	2,476	262	0	0	0	0	0	16,374
1964-65	0	1,384	4,387	2,622	3,045	3,435	2,652	169	29	4	4	0	17,765
1965-66	0	895	4,588	3,323	4,071	4,860	3,133	762	3/	0	0	0	21,633
1966-67	0	2,006	3,946	2,985	3,636	4,420	2,129	651	28	0	0	0	19,803
1967-68	0	496	2,567	1,695	604	649	98	1	0	0	0	0	6,110
1968-69	42	3,047	4,842	3,872	4,013	5,469	3,196	492	3/	0	0	0	24,974

<sup>1/</sup> Includes Edison District.

<sup>2/</sup> Includes intrastate, interstate, and export shipments.

<sup>3/</sup> Lots of less than 500 cartons.

<sup>4/</sup> Summation on monthly shipments may not equal total due to rounding and small lots.

Source: (5).

TABLE 0-24. SOUTHERN CALIFORNIA NAVEL ORANGE SHIPMENTS: MONTHLY SHIPMENTS OF FRESH NAVEL ORANGES, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Month										Total <sup>3/</sup>
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June			
	(Thousand Packed 37.5-Pound Cartons)										
1959-60	90	716	1,240	1,917	2,820	1,036	32	0	7,850		
1960-61	57	745	1,260	1,825	2,946	1,109	18	0	7,958		
1961-62	95	458	1,197	1,528	3,048	1,038	2	0	7,364		
1962-63	13	369	1,243	1,670	2,258	1,752	338	2/	7,643		
1963-64	14	345	1,402	2,005	2,253	2,045	88	0	8,152		
1964-65	10	400	1,197	1,710	2,372	2,229	815	13	8,746		
1965-66	0	245	934	1,620	2,188	1,276	115	0	6,378		
1966-67	15	564	1,035	1,574	2,715	2,100	916	16	8,937		
1967-68	2	154	1,125	1,289	1,074	989	39	0	4,672		
1968-69	106	509	477	713	1,067	389	51	2/	3,312		

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Lots of less than 500 cartons.

<sup>3/</sup> Summation of monthly shipments may not equal total due to rounding and small lots.

Source: (5).



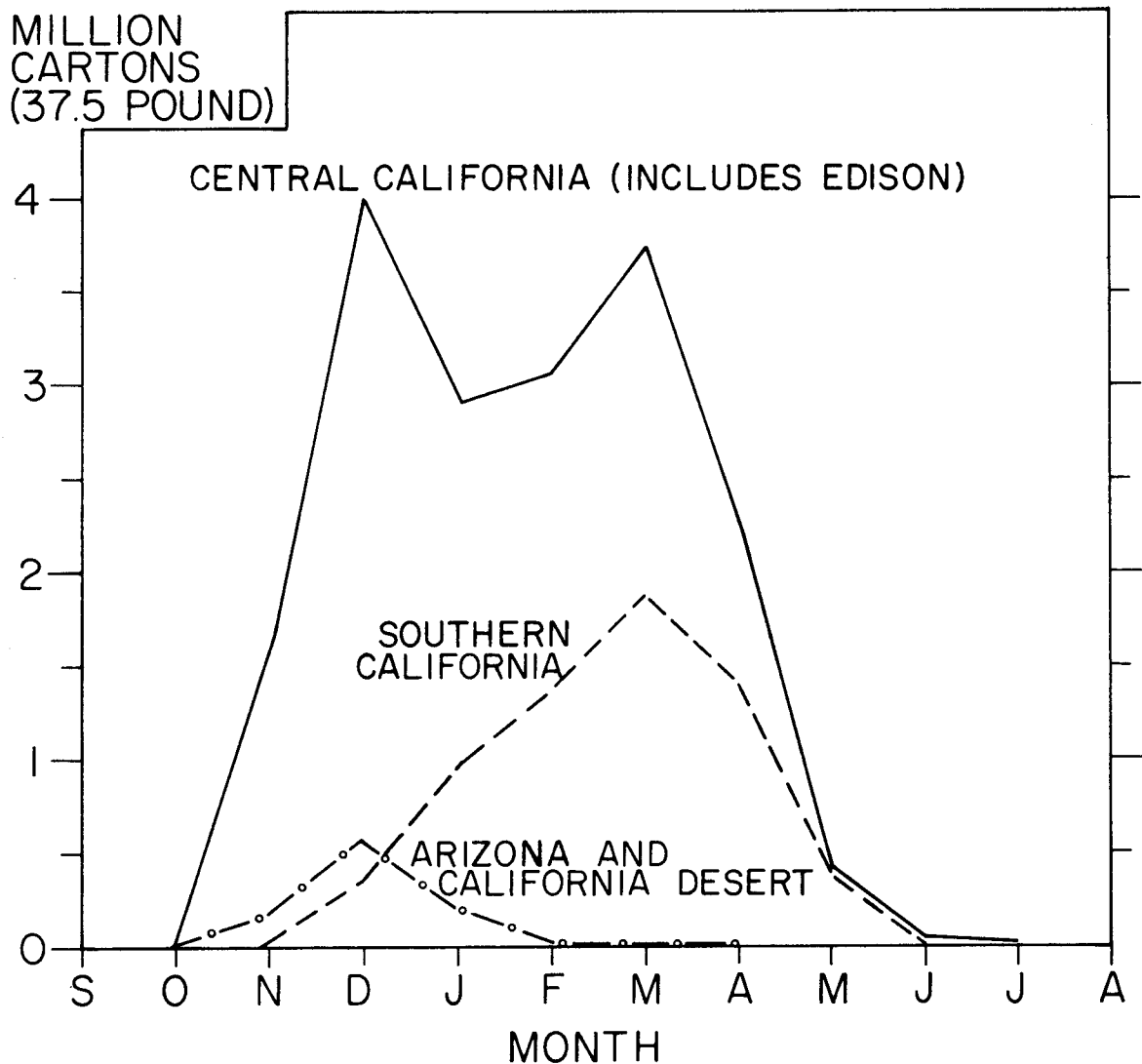


FIGURE 6. MONTHLY SHIPMENTS OF FRESH NAVEL ORANGES, BY DISTRICT, FIVE YEAR AVERAGE, 1964-65 THROUGH 1968-69.

SOURCES: TABLES O-22, O-23, AND O-24.

TABLE O-25. FRESH ORANGE SHIPMENTS: CARLOT UNLOADS IN TWENTY U. S. CITIES, BY PRODUCING STATE, YEARS 1957, 1962, and 1967.<sup>1/</sup>

Destination	Arizona		California		Florida		Texas	
	1957	1962	1957	1962	1957	1962	1957	1962
Atlanta	0	5	37	52	52	839	5	0
Boston	14	40	1,761	1,122	1,997	849	0	0
Buffalo	6	3	502	208	300	956	0	0
Chicago	60	135	1,776	1,244	1,980	321	0	0
Cincinnati	1	3	341	171	275	1,455	20	5
Cleveland	18	25	848	465	714	353	3	2
Dallas	32	17	266	213	245	507	0	0
Denver	33	18	494	454	568	16	155	48
Detroit	39	71	1,509	794	1,215	40	64	18
Indianapolis	3	6	252	162	242	807	2	4
Kansas City	19	3	442	288	389	301	2	1
Los Angeles	71	80	4,320	2,969	3,466	148	44	14
Minneapolis	6	23	801	399	611	104	48	7
New York	5	10	3,978	2,848	4,106	48	31	4
Philadelphia	16	9	1,571	955	1,461	4,840	1	0
Pittsburgh	26	32	1,321	620	846	2,273	1	0
Portland	13	4	548	407	680	474	0	0
Salt Lake City	11	5	423	244	365	3	1	1
San Francisco	11	22	1,648	1,137	2,188	26	2	1
Seattle	12	6	321	534	775	123	3	7
						4	0	0

(Carlots)<sup>2/</sup>

<sup>1/</sup> All orange varieties. Includes truck and rail shipments.

<sup>2/</sup> One carlot is equivalent to 43,000 pounds in Florida, and 37,000 pounds in Arizona, California, and Texas.

Sources: (7), (10).

TABLE O-26. ORANGE PRICES: EQUIVALENT ON TREE RETURNS PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
(Dollars per Packed 37.5-Pound Carton)							
1959-60	1.36	1.66	.86	1.74	1.63	.78	.74
1960-61	2.16	1.56	1.25	2.25	2.48	1.21	.91
1961-62	1.83	1.52	.76	2.67	2.72	.81	.68
1962-63	1.51	1.66	1.46	1.87	2.02	.92	1.64
1963-64	1.63	1.90	1.86	1.68	1.60	1.84	1.50
1964-65	1.02	1.26	.95	1.72	1.60	1.08	1.28
1965-66	.86	1.26	.74	1.08	1.09	.60	.82
1966-67	.74	.94	.45	1.58	1.26	.34	.36
1967-68	1.72	1.85	.95	2.92	1.80	.77	.72
1968-69	.60	.64	.90	1.42	1.18	.71	.58

<sup>1/</sup> See footnotes one and two, Table O-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

Source: (17).

TABLE O-27. FRESH ORANGE PRICES: EQUIVALENT ON TREE RETURNS PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
(Dollars per Packed 37.5-Pound Carton)							
1959-60	1.59	2.14	.85	2.00	1.84	.84	.80
1960-61	2.35	1.86	1.28	2.43	2.62	1.33	1.03
1961-62	2.25	1.87	.72	2.97	2.96	.96	.86
1962-63	2.34	2.09	2.22	2.16	2.60	1.10	1.64
1963-64	1.78	2.18	1.81	1.98	1.78	1.91	1.52
1964-65	1.32	1.48	.96	1.95	1.72	1.26	1.29
1965-66	1.05	1.66	.84	1.28	1.40	.67	.86
1966-67	1.15	1.33	.29	2.02	1.46	.40	.46
1967-68	2.12	2.68	1.16	3.18	2.92	1.16	.76
1968-69	.98	1.11	.92	1.72	1.58	.91	.68

<sup>1/</sup> See footnotes one and two, Table O-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

Source: (17).

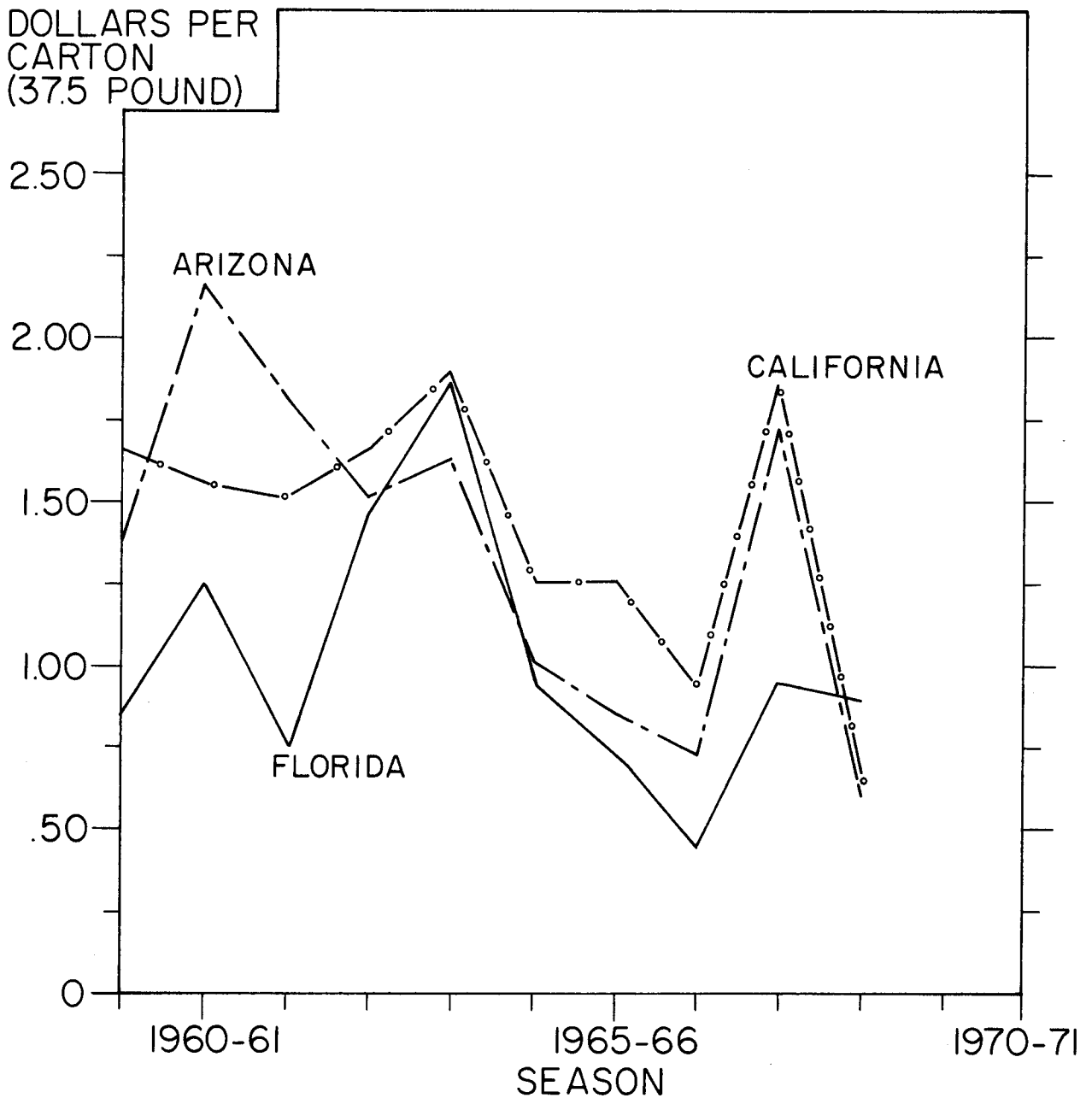


FIGURE 7. ON TREE RETURNS PER PACKED CARTON OF VALENCIA ORANGES, BY STATE, 1959-60 THROUGH 1968-69.

SOURCE: TABLE O-26.

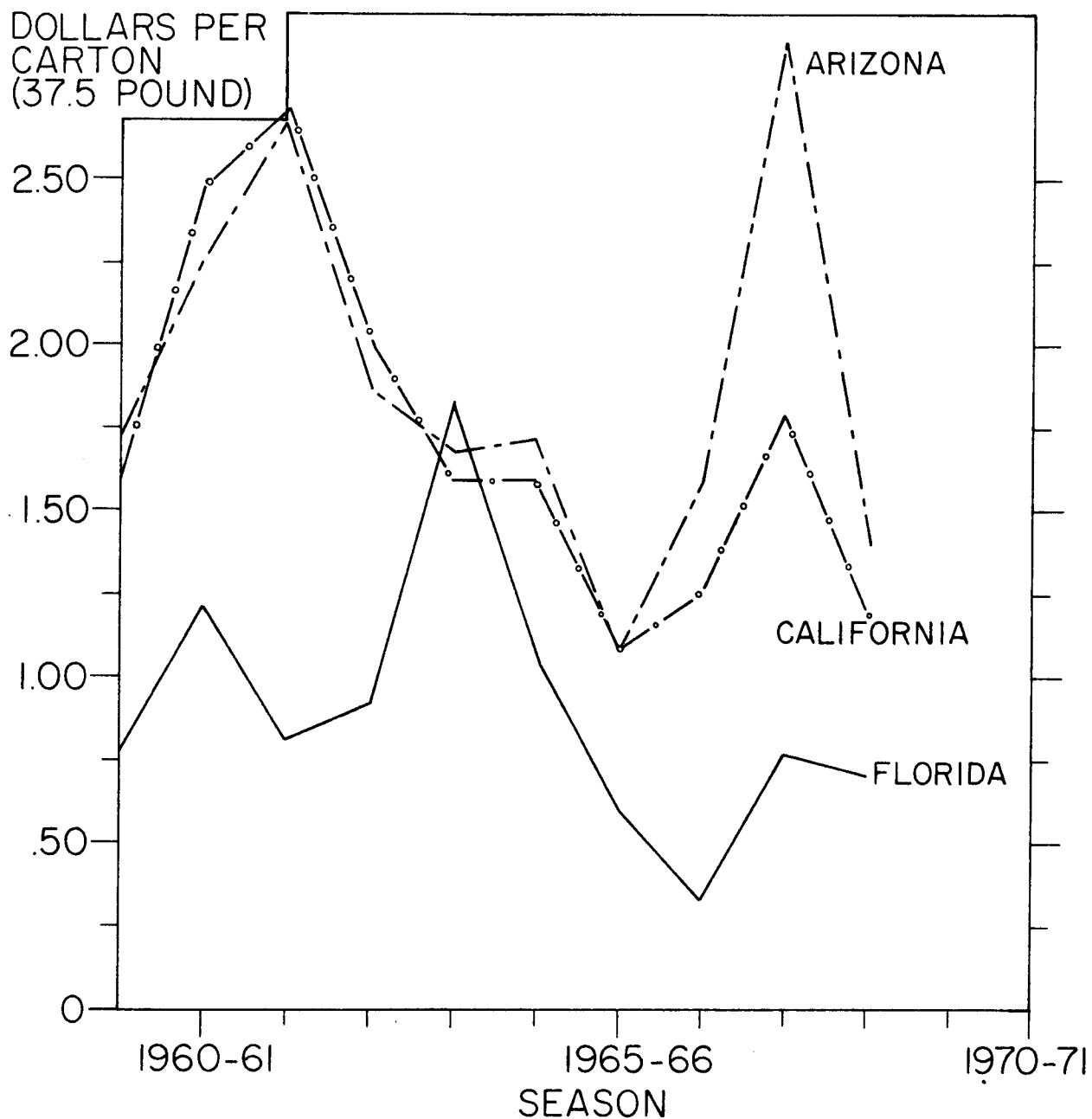


FIGURE 8. ON TREE RETURNS PER PACKED CARTON OF NAVEL ORANGES, BY STATE, 1959-60 THROUGH 1968-69.

SOURCE: TABLE 0-26.

TABLE O-28. FRESH ORANGE PRICES: EQUIVALENT PACKINGHOUSE DOOR RETURNS PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
(Dollars per Packed 37.5-Pound Carton)							
1959-60	1.82	2.38	1.03	2.23	2.08	1.01	.90
1960-61	2.50	2.12	1.46	2.58	2.89	1.51	1.14
1961-62	2.48	2.17	.91	3.20	3.26	1.15	.96
1962-63	2.60	2.37	2.41	2.40	2.88	1.28	1.75
1963-64	2.02	2.50	2.03	2.22	2.10	2.14	1.67
1964-65	1.60	1.84	1.18	2.22	2.09	1.50	1.46
1965-66	1.32	2.02	1.10	1.55	1.76	.93	1.04
1966-67	1.42	1.67	.55	2.30	1.80	.66	.65
1967-68	2.42	3.05	1.46	3.47	3.29	1.46	.96
1968-69	1.28	1.49	1.25	2.05	1.96	1.24	.87

<sup>1/</sup> See footnotes one and two, Table O-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

Source: (17).

TABLE O-29. FRESH ORANGE PRICES: EQUIVALENT F. O. B. RETURNS PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
(Dollars per Packed 37.5-Pound Carton)							
1959-60	2.60	3.15	1.56	3.02	2.88	1.62	1.56
1960-61	3.45	2.92	2.00	3.58	3.75	2.17	2.00
1961-62	3.31	2.97	1.46	4.04	4.06	1.78	1.72
1962-63	3.55	3.13	3.12	3.28	3.66	2.06	2.50
1963-64	2.82	3.25	2.58	3.02	2.86	2.82	2.42
1964-65	2.45	2.66	1.77	3.08	2.90	2.19	2.12
1965-66	2.22	2.83	1.77	2.45	2.57	1.68	1.66
1966-67	2.22	2.53	1.23	3.10	2.66	1.39	1.32
1967-68	3.40	4.12	2.10	4.45	4.37	2.13	1.78
1968-69	2.12	2.52	1.92	3.05	2.95	1.92	1.77

<sup>1/</sup> See footnotes one and two, Table O-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

Source: (17).

TABLE O-30. PROCESSED ORANGE PRICES: EQUIVALENT ON TREE RETURNS PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	Valencia			Navel and Other <sup>1/</sup>			All Varieties <sup>2/</sup>
	Arizona	Calif.	Florida	Arizona	Calif.	Florida	Texas
	(Dollars per Packed 37.5-Pound Carton)						
1959-60	.42	.81	.86	.41	.21	.76	.54
1960-61	.82	.91	1.24	.48	.24	1.18	.58
1961-62	.69	.83	.76	.59	.37	.77	.47
1962-63	.68	1.08	1.36	.38	.44	.88	<u>3/</u>
1963-64	1.15	1.46	1.86	.85	.60	1.82	1.30
1964-65	.45	.74	.95	.52	.27	1.02	1.11
1965-66	.55	.61	.74	.28	.03	.60	.54
1966-67	.25	.32	.47	.25	.02	.32	.14
1967-68	.32	.53	.91	.32	.05	.70	.51
1968-69	.10	.12	.90	.25	-.14	.70	.50

<sup>1/</sup> See footnotes one and two, Table O-4.

<sup>2/</sup> Variety breakdown unavailable for Texas.

<sup>3/</sup> Data not available.

Source: (17).

TABLE O-31. FRESH ORANGE COSTS: PACKINGHOUSE CHARGES PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69<sup>1/</sup>.

Season	Valencia			Navel and Other <sup>2/</sup>		
	Arizona	California	Florida	Arizona	California	Florida
(Dollars per Packed 37.5-Pound Carton)						
1959-60	.78	.77	.53	.79	.80	.61
1960-61	.95	.80	.54	1.00	.86	.66
1961-62	.83	.80	.55	.84	.80	.63
1962-63	.95	.76	.71	.88	.78	.75
1963-64	.80	.75	.55	.80	.76	.68
1964-65	.85	.82	.59	.86	.81	.69
1965-66	.90	.81	.67	.90	.81	.75
1966-67	.80	.86	.68	.80	.86	.73
1967-68	.98	1.07	.64	.98	1.08	.67
1968-69	.84	1.03	.67	1.00	.99	.68

<sup>1/</sup> Calculated by subtracting Fresh Packinghouse Door Returns from F.O.B. Returns.

<sup>2/</sup> See footnotes one and two, Table O-4.

Sources: Tables O-28 and O-29.

TABLE O-32. FRESH ORANGE COSTS: PICKING AND HAULING CHARGES PER PACKED CARTON, BY VARIETY AND STATE, SEASONS 1959-60 THROUGH 1968-69<sup>1/</sup>.

Season	Valencia			Navel and Other <sup>2/</sup>		
	Arizona	California	Florida	Arizona	California	Florida
(Dollars per Packed 37.5-Pound Carton)						
1959-60	.23	.24	.18	.23	.24	.17
1960-61	.15	.26	.18	.15	.27	.18
1961-62	.23	.30	.19	.23	.30	.19
1962-63	.26	.28	.19	.24	.28	.18
1963-64	.24	.32	.22	.24	.32	.23
1964-65	.28	.36	.22	.27	.34	.24
1965-66	.27	.36	.26	.27	.36	.26
1966-67	.27	.34	.26	.28	.34	.26
1967-68	.30	.37	.30	.29	.37	.30
1968-69	.30	.38	.33	.33	.38	.33

<sup>1/</sup> Calculated by subtracting Fresh On Tree Returns from Fresh Packinghouse Door Returns.

<sup>2/</sup> See footnotes one and two, Table O-4.

Sources: Tables O-27 and O-28.



## GRAPEFRUIT

The bearing acreage of grapefruit in the United States fluctuated between 128,600 acres and 149,300 acres during the 1960's. For the 1968-69 season, there were 136,600 acres of bearing grapefruit trees in the U. S. About 91,200 acres or two-thirds of the U. S. total was in Florida. Texas, with 27,500 acres ranked second, followed by 12,800 acres in California and 5,100 acres in Arizona.

A total of 137.8 million cartons (32 pounds per carton) of grapefruit were produced in the U. S. during the 1968-69 season. This was the second largest crop during the 1960's. Florida's production of almost 106 million cartons accounted for about 77 percent of the U. S. total. Arizona's 5 million cartons accounted for less than 4 percent of the 1968-69 crop (Figure 9).

About 55.8 million cartons or 41 percent of the 1968-69 crop were sold fresh, and the remainder was canned or sold in other processed forms. Relatively large proportions of Texas grapefruit were sold fresh, whereas during most seasons less than half of the Florida grapefruit were sold fresh (Figure 10).

From 1959 through 1968, U. S. per capita consumption of fresh grapefruit fluctuated between a low of 6.2 pounds in 1963 and a high of 9.7 pounds in 1960. Per capita consumption of both canned and chilled grapefruit juice increased slightly, but for 1968 the combined consumption for both products totaled less than 2.5 pounds per person.

Desert grapefruit production fluctuated between about 6.7 million and 12.8 million cartons during the 1960's. The Coachella District accounted for 54 percent of the 11.8 million cartons of Desert grapefruit

produced in 1968-69, and the Salt River Valley District for 31 percent. Ten years earlier, in 1959-60, the Salt River Valley District accounted for 51 percent of the Desert grapefruit crop, and the Coachella District for 26 percent. The Yuma and Imperial Districts ranked third and fourth in Desert production respectively, throughout the 1960's. Production in the Coachella District gradually increased during this 10-year period, whereas it remained fairly constant in the other three districts.

Roughly 50 to 60 percent of the Desert grapefruit were sold fresh during the 1960's. Between 284,000 and 704,000 cartons of Desert grapefruit were exported annually during this 10-year period. Fresh shipments of Desert grapefruit are largest during April, May, and June. However, monthly shipments are fairly significant from November through July.

Except for one season, on tree returns per packed carton were higher for California grapefruit than for other producing areas during the 1960's (Figure II). Packinghouse charges were lowest in Florida, and picking and hauling charges were lowest in Texas.

TABLE G-1. GRAPEFRUIT ACREAGE: BEARING ACREAGE BY STATE AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	Texas	United States
(Thousand Acres)					
1959-60	5.6	7.6	92.3	38.1	143.6
1960-61	5.7	8.1	92.5	40.0	146.3
1961-62	5.8	9.5	94.0	40.0	149.3
1962-63	6.0	10.9	88.0	40.0	144.9
1963-64	6.0	11.9	83.0	27.7	128.6
1964-65	6.1	11.9	84.0	27.7	129.7
1965-66	6.2	12.0	86.0	27.7	131.9
1966-67	6.6	12.8	87.0	<u>1/</u>	<u>1/</u>
1967-68	6.7	12.8	87.5	<u>1/</u>	<u>1/</u>
1968-69	5.1 <sup>2/</sup>	12.8	91.2	27.5	136.6

1/ Not available.

2/ Based on a new tree count conducted during the fall of 1968 (see Tables M-3 through M-6); not comparable to earlier Arizona bearing acreage figures.

Source: (2). Texas estimates for seasons 1960-61 through 1965-66 obtained through personal letter from Kenneth L. Stewart, Agricultural Extension Service, Texas A&M University, College Station, Texas.

TABLE G-2. GRAPEFRUIT PRODUCTION: TOTAL BY STATE, DESERT, AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California <sup>1/</sup>	Florida	Texas	Desert <sup>2/</sup>	United States
(Thousand Packed 32-Pound Cartons)						
1958-60	6,440	5,524	81,016	13,000	9,240	105,980
1960-61	4,680	5,412	83,936	17,000	7,160	111,028
1961-62	4,540	6,012	92,968	6,750	7,620	110,270
1962-63	4,340	5,124	79,688	176	6,740	89,328
1963-64	6,420	8,562	69,860	1,250	11,420	86,092
1964-65	5,800	8,624	84,734	5,000	10,860	104,158
1965-66	6,100	10,106	92,702	9,500	11,600	118,408
1966-67	3,360	10,216	115,812	14,000	8,760	143,388
1967-68	7,480	9,396	87,390	7,000	13,316	111,266
1968-69	5,020	10,080	105,984	16,750	11,540	137,834

1/ Includes both summer and winter grapefruit.

2/ Arizona and the Imperial and Coachella Valleys of California.

Sources: (13), (14), (15), (16).

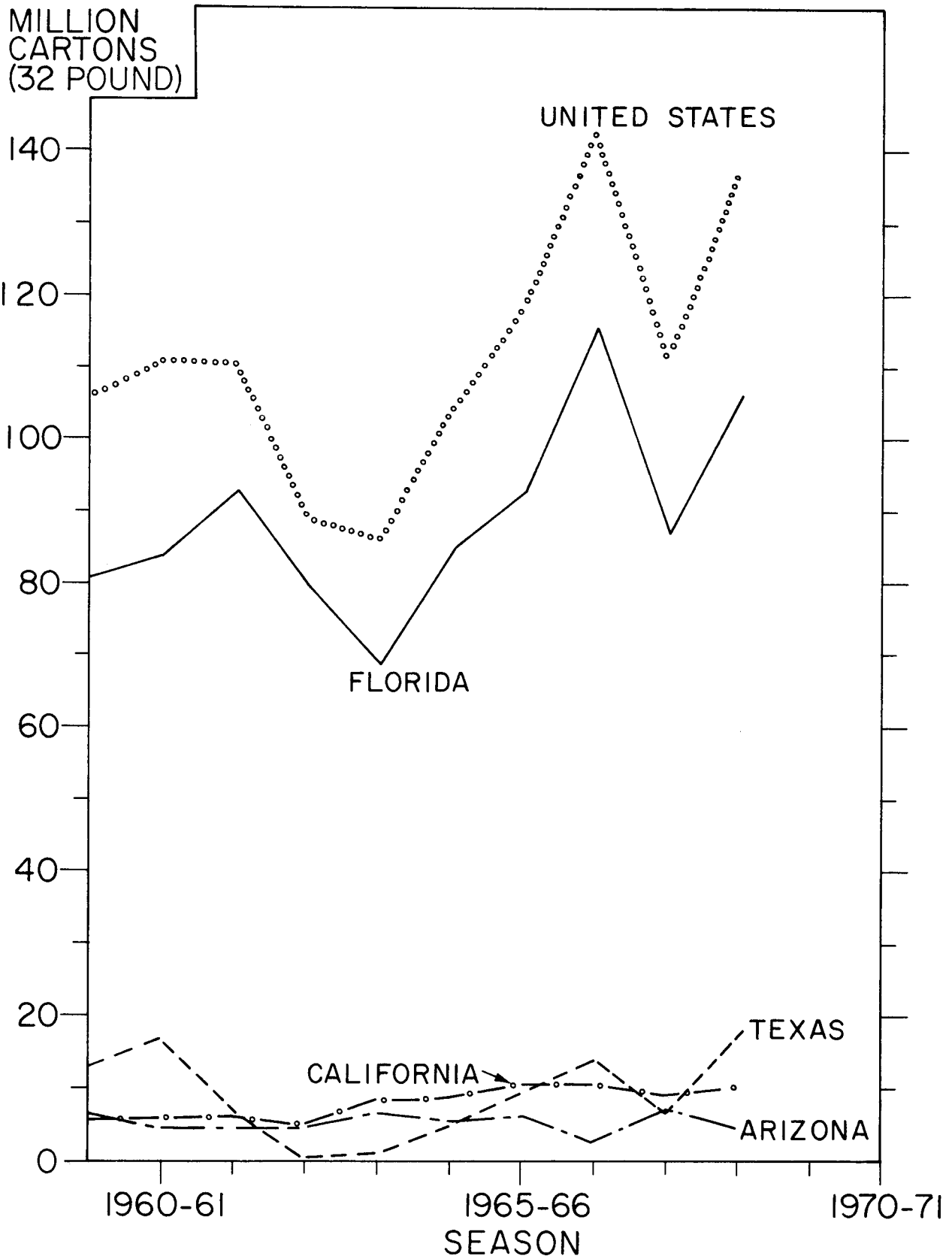


FIGURE 9. GRAPEFRUIT PRODUCTION BY STATE AND UNITED STATES, 1959-60 THROUGH 1968-69.

SOURCE: TABLE G-2.

TABLE G-3. FRESH GRAPEFRUIT SALES: TOTAL BY STATE,  
DESERT, AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California <sup>1/</sup>	Florida	Texas	Desert <sup>2/</sup>	United States
(Thousand Packed 32-Pound Cartons)						
1959-60	4,214	3,696	42,584	9,702	5,892	60,196
1960-61	2,910	3,538	41,772	13,610	4,250	61,830
1961-62	2,550	3,670	47,310	5,736	4,190	59,266
1962-63	1,780	3,284	36,956	112	3,214	42,132
1963-64	4,258	5,472	38,620	1,076	7,344	49,426
1964-65	3,576	5,270	41,612	4,540	6,326	54,998
1965-66	3,806	5,930	39,570	7,524	6,772	56,830
1966-67	1,870	6,038	45,424	9,900	4,600	63,232
1967-68	4,770	5,738	38,574	5,512	8,330	54,594
1968-69	2,866	4,768	36,900	11,276	5,834	55,810

<sup>1/</sup> Includes both summer and winter grapefruit.

<sup>2/</sup> Arizona and the Imperial and Coachella Valleys of California.

Sources: (13), (14), (15), (16).

TABLE G-4. GRAPEFRUIT PROCESSED: TOTAL BY STATE,  
DESERT, AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California <sup>1/</sup>	Florida	Texas	Desert <sup>2/</sup>	United States
(Equivalent Thousand Packed 32-Pound Cartons)						
1959-60	2,186	1,722	38,006	3,110	3,238	45,024
1960-61	1,730	1,808	41,740	3,202	2,838	48,480
1961-62	1,750	2,054	44,648	890	2,938	49,342
1962-63	2,520	1,788	42,398	0	3,470	46,706
1963-64	2,122	3,036	30,762	62	4,018	35,982
1964-65	2,184	3,298	42,644	348	4,476	48,474
1965-66	2,254	4,120	52,654	1,800	4,766	60,828
1966-67	1,460	4,124	69,910	3,400	4,110	78,894
1967-68	2,680	3,608	48,338	1,288	4,940	55,914
1968-69	2,120	5,278	68,618	5,276	5,660	81,292

<sup>1/</sup> Includes both summer and winter grapefruit.

<sup>2/</sup> Arizona and the Imperial and Coachella Valleys of California.

Sources: (13), (14), (15), (16).

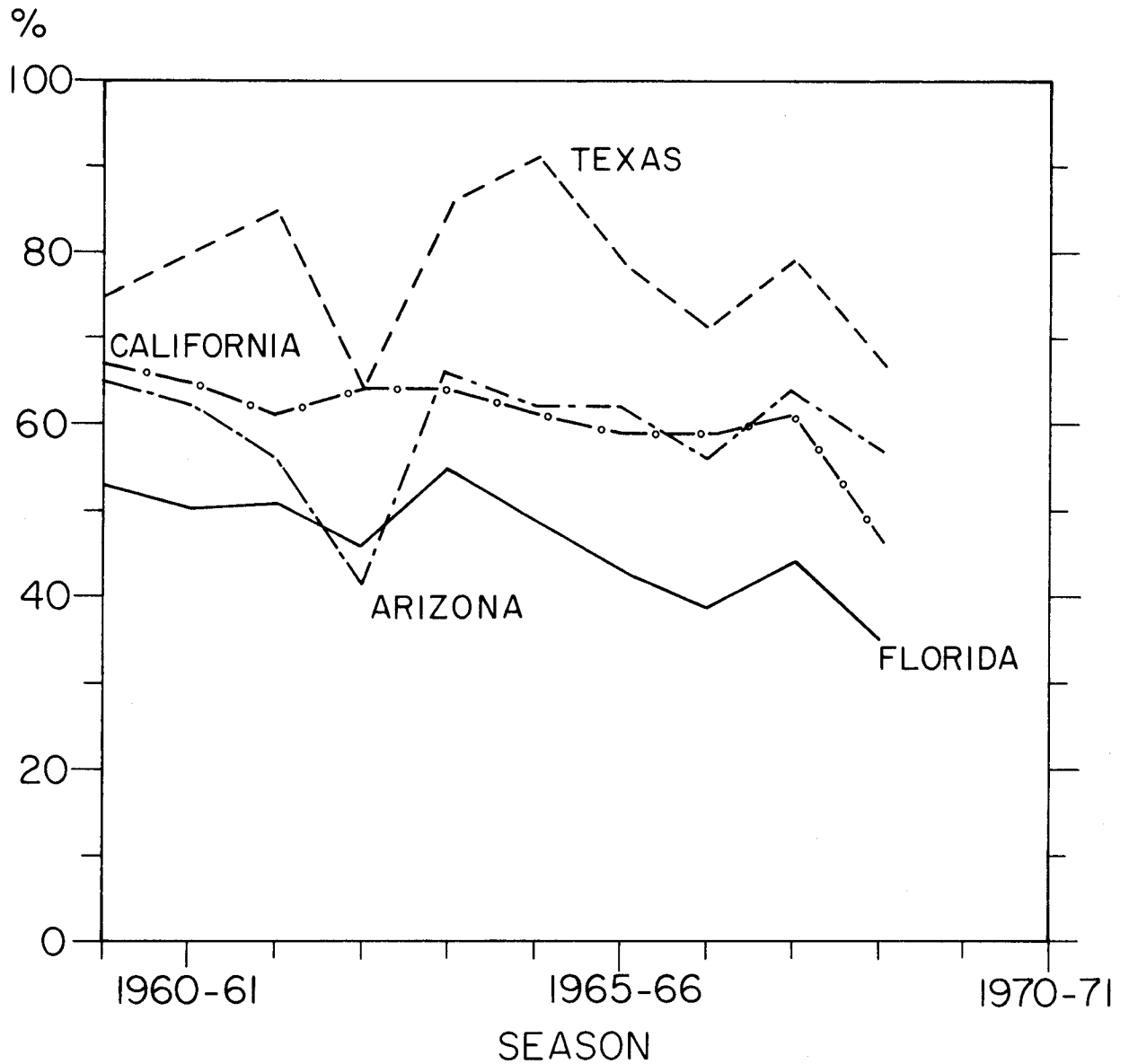


FIGURE 10. PERCENT. OF TOTAL GRAPEFRUIT PRODUCTION SOLD FRESH, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES G-2 AND G-3.

TABLE G-5. DESERT GRAPEFRUIT PRODUCTION: TOTAL BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.

Season	SRV <sup>1/</sup>	Yuma	Imperial	Coachella	Desert Total <sup>2/</sup>
(Thousand Packed 32-Pound Cartons)					
1959-60	4,828	1,622	371	2,406	9,250
1960-61	3,422	1,240	253	2,224	7,140
1961-62	3,362	1,156	210	2,858	7,601
1962-63	3,104	1,182	142	2,237	6,667
1963-64	4,857	1,515	215	4,760	11,350
1964-65	4,338	1,397	111	4,926	10,773
1965-66	4,394	1,650	124	5,350	11,521
1966-67	2,022	1,296	129	5,198	8,651
1967-68	5,129	1,846	56	5,730	12,763
1968-69	3,611	1,677	131	6,382	11,802

<sup>1/</sup> SRV - Salt River Valley.

<sup>2/</sup> Desert Total includes parcel post and charity shipments as well as the sum over all areas. This total does not correspond with Desert Total in Table G-2 because of minor differences in definitions.

Source: (3).

TABLE G-6. DESERT FRESH GRAPEFRUIT SALES: TOTAL BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	SRV <sup>2/</sup>	Yuma	Imperial	Coachella	Desert Total <sup>3/</sup>
(Thousand Packed 32-Pound Cartons)					
1959-60	3,384	831	225	1,443	5,885
1960-61	2,312	598	141	1,203	4,255
1961-62	1,949	600	109	1,526	4,186
1962-63	1,247	520	68	1,358	3,195
1963-64	3,404	844	128	2,947	7,326
1964-65	2,899	648	63	2,676	6,287
1965-66	2,849	937	55	2,898	6,742
1966-67	1,198	656	59	2,636	4,555
1967-68	3,286	1,144	47	3,480	7,959
1968-69	2,000	1,067	90	2,872	6,030

<sup>1/</sup> Sales include intrastate, interstate, and export shipments.

<sup>2/</sup> SRV - Salt River Valley.

<sup>3/</sup> Desert Total includes parcel post shipments.

Source: (3).

TABLE G-7. DESERT GRAPEFRUIT PROCESSED: TOTAL BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.

Season	SRV <sup>1/</sup>	Yuma	Imperial	Coachella	Desert Total
(Equivalent Thousand Packed 32-Pound Cartons)					
1959-60	1,396	790	144	907	3,237
1960-61	1,087	643	110	997	2,837
1961-62	1,192	556	75	1,111	2,934
1962-63	1,853	662	74	876	3,465
1963-64	1,450	671	87	1,807	4,015
1964-65	1,434	748	47	2,244	4,473
1965-66	1,540	713	68	2,443	4,764
1966-67	821	640	69	2,554	4,084
1967-68	1,840	701	9	2,242	4,792
1968-69	1,611	610	41	3,499	5,761

<sup>1/</sup> SRV - Salt River Valley.

Source: (3).

TABLE G-8. DESERT GRAPEFRUIT EXPORTS: TOTAL BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.

Season	SRV <sup>1/</sup>	Yuma	Imperial	Coachella	Desert Total
(Thousand Packed 32-Pound Cartons)					
1959-60	107	11	33	174	325
1960-61	218	44	63	228	553
1961-62	275	64	48	317	704
1962-63	68	43	22	240	373
1963-64	179	59	30	217	485
1964-65	205	95	11	222	533
1965-66	207	124	5	161	497
1966-67	91	112	14	215	432
1967-68	108	37	<u>2/</u>	139	284
1968-69	191	69	<u>2/</u>	301	561

<sup>1/</sup> SRV - Salt River Valley.

<sup>2/</sup> Not available.

Source: (3).



TABLE C-9. DESERT GRAPEFRUIT SHIPMENTS: MONTHLY SHIPMENTS OF FRESH GRAPEFRUIT, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Month												Total <sup>2/</sup>
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July				
	(Thousand Packed 32-Pound Cartons)												
1959-60	321	413	456	514	632	717	1,260	1,113	395				5,821
1960-61	372	302	430	394	689	527	601	533	309				4,157
1961-62	370	299	549	356	716	508	767	473	103				4,141
1962-63	305	366	513	459	516	451	425	154	3				3,193
1963-64	687	509	966	888	945	1,298	1,166	679	185				7,323
1964-65	245	351	629	530	824	858	1,201	1,267	381				6,286
1965-66	287	330	597	728	891	955	1,571	1,160	219				6,739
1966-67	181	327	428	440	553	549	888	863	319				4,548
1967-68	216	359	788	656	857	1,156	1,924	1,249	753 <sup>3/</sup>				7,957
1968-69	608	476	680	498	518	849	895	781	442				5,747

<sup>1/</sup> Does not include parcel post.

<sup>2/</sup> Summation of monthly shipments may not equal total due to rounding.

<sup>3/</sup> Includes 50,000 cartons shipped in August 1969.

Source: (3).

TABLE G-10. DESERT GRAPEFRUIT SHIPMENTS: DESTINATION OF FRESH SHIPMENTS BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Destination	Season									
	59-60	60-61	61-62	62-63	63-64	64-65	65-66	66-67	67-68	68-69
	(Thousand Packed 32-Pound Cartons)									
Arizona	94	108	79	65	119	92	118	150	105	150
California	2,725	2,441	2,318	1,664	2,903	2,558	2,867	2,557	3,306	3,312
Colorado	57	22	68	64	101	104	77	89	156	185
Idaho	36	27	27	18	33	27	27	15	35	31
Montana	30	13	24	16	16	19	27	16	46	13
Nevada	7	4	4	4	15	10	12	12	12	23
New Mexico	18	15	13	20	34	24	23	16	23	24
Oregon	217	170	141	116	211	193	252	182	292	231
Utah	111	63	83	56	120	87	109	67	89	58
Washington	191	153	178	124	200	176	210	180	293	223
Wyoming	0	0	1/	0	0	1/	0	0	0	0
TOTAL <sup>6/</sup>	3,488	3,017	2,935	2,148	3,751	3,291	3,721	3,282	4,358	4,148
Midwest <sup>2/</sup>	958	191	162	235	1,467	961	1,166	390	1,377	385
East <sup>3/</sup>	212	90	98	87	511	529	506	112	694	110
South <sup>4/</sup>	388	114	103	188	635	690	475	140	646	205
TOTAL <sup>6/</sup>	1,659	396	363	511	2,613	2,180	2,147	642	2,717	700
Canada	389	191	129	161	477	283	369	196	597	331
Exports <sup>5/</sup>	318	554	714	374	482	533	501	427	284	567
GRAND TOTAL <sup>6/</sup>	5,854	4,157	4,141	3,194	7,323	6,286	6,739	4,548	7,957	5,747

1/ Less than 500 packed cartons.

2/ Midwest - Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin.

3/ East - Connecticut, Delaware, Maine, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Rhode Island, Virginia, West Virginia, Washington, D. C.

4/ South - Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas.

5/ Exports include shipments to Alaska and Hawaii.

6/ Discrepancies due to rounding.

Source: (3).

TABLE G-11. FRESH GRAPEFRUIT SHIPMENTS: CARLOT UNLOADS IN TWENTY U. S. CITIES, BY PRODUCING STATE, YEARS 1957, 1962, and 1967.<sup>1/</sup>

Destination	Arizona		California		Florida		Texas		
	1957	1962	1957	1962	1957	1962	1957	1962	
Atlanta	8	5	6	3	10	423	430	2	0
Boston	27	8	36	67	87	1,037	919	1	0
Buffalo	8	18	8	9	10	306	322	1	0
Chicago	34	19	37	35	102	1,718	1,434	69	36
Cincinnati	17	2	17	23	36	495	359	6	5
Cleveland	26	7	18	16	42	773	740	9	1
Dallas	22	4	18	38	36	189	266	153	59
Denver	13	26	41	52	88	399	361	76	34
Detroit	11	14	37	32	75	919	837	8	11
Indianapolis	11	4	13	10	41	291	350	2	1
Kansas City	27	3	24	26	41	300	291	58	25
Los Angeles	1,073	774	1,110	578	622	176	385	145	51
Minneapolis	7	7	24	28	25	412	471	150	23
New York	0	10	135	102	210	4,773	4,140	3	0
Philadelphia	3	14	42	35	111	1,576	1,617	5	0
Pittsburgh	40	5	21	16	33	719	599	2	2
Portland	95	60	50	57	148	7	193	25	19
Salt Lake City	60	17	11	50	46	111	162	118	17
San Francisco	314	232	270	198	449	86	295	49	21
Seattle	95	83	14	58	136	249	267	0	25

(Carlots)<sup>2/</sup>

<sup>1/</sup> Includes truck and rail shipments.

<sup>2/</sup> One carlot is equivalent to 37,000 pounds in Florida and 32,000 pounds in Arizona, California, and Texas.

Sources: (7), (10).

TABLE G-12. GRAPEFRUIT PRICES: EQUIVALENT ON TREE RETURNS PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	California			Florida	Texas
	Arizona	Desert Valleys	Other Areas		
(Dollars per Packed 32-Pound Carton)					
1959-60	.44	.58	.76	.40	.42
1960-61	.42	.40	.70	.36	.36
1961-62	.25	.50	.64	.26	.37
1962-63	.32	.86	1.34	.48	1.62
1963-64	.73	1.15	1.22	.86	1.25
1964-65	.43	.71	.96	.56	.82
1965-66	.55	.85	1.05	.52	.61
1966-67	.55	.60	.98	.28	.32
1967-68	.66	1.00	1.04	.76	.73
1968-69	.68	1.06	.94	.30	.44

Source: (17).

TABLE G-13. FRESH GRAPEFRUIT PRICES: EQUIVALENT ON TREE RETURNS PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	California			Florida	Texas
	Arizona	Desert Valleys	Other Areas		
(Dollars per Packed 32-Pound Carton)					
1959-60	.64	.96	1.00	.50	.48
1960-61	.61	.80	.90	.48	.43
1961-62	.42	.70	.92	.40	.43
1962-63	.79	1.36	1.90	.77	1.62
1963-64	1.02	1.54	1.58	1.00	1.28
1964-65	.68	1.19	1.28	.78	.85
1965-66	.78	1.36	1.54	.72	.68
1966-67	.90	1.07	1.38	.46	.39
1967-68	.90	1.53	1.64	1.14	.79
1968-69	1.15	1.31	1.96	.67	.60

Source: (17).

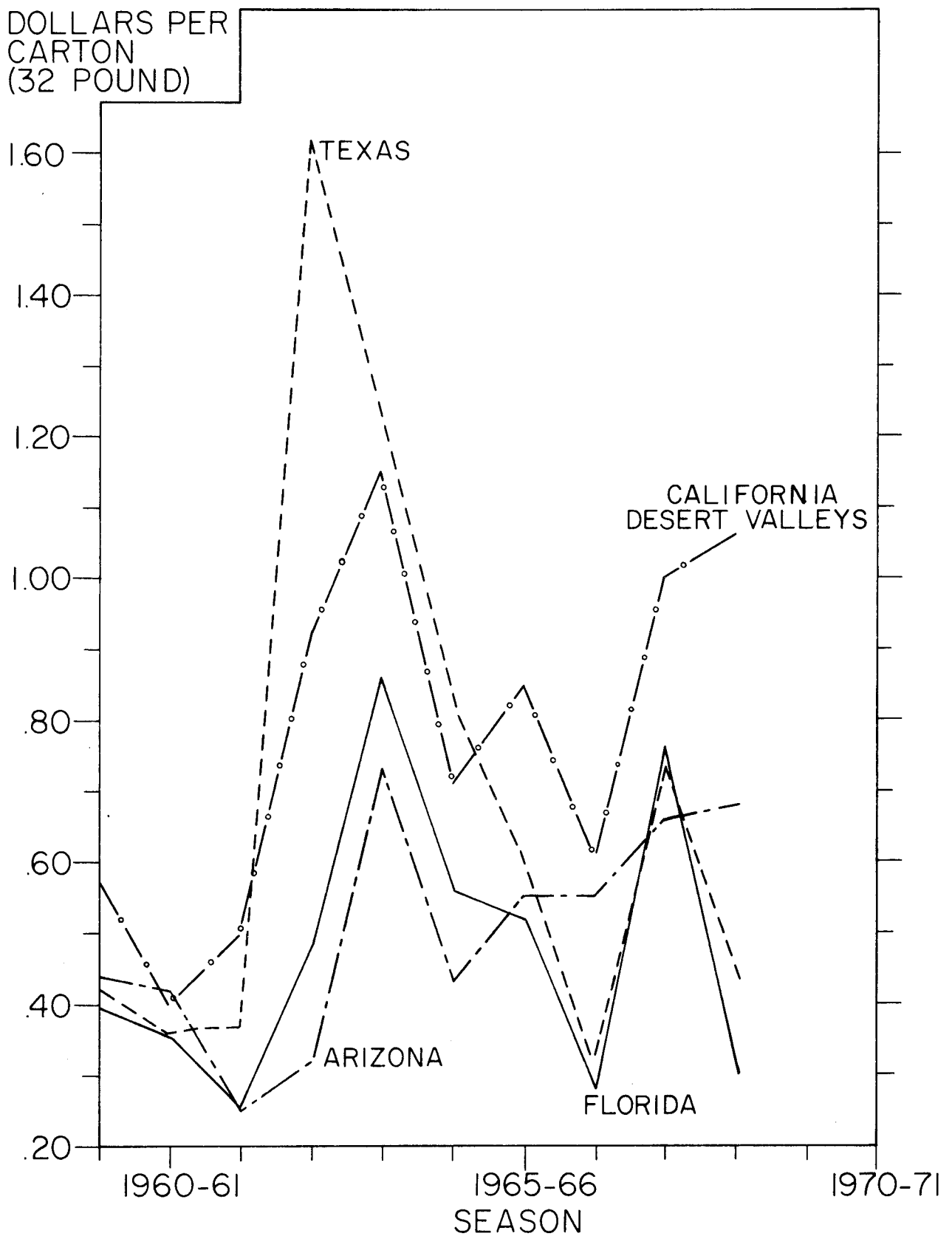


FIGURE II. ON TREE RETURNS PER PACKED CARTON OF GRAPEFRUIT, BY STATE, 1959-60 THROUGH 1968-69.

SOURCE: TABLE G-12.

TABLE G-14. FRESH GRAPEFRUIT PRICES: EQUIVALENT PACKINGHOUSE DOOR RETURNS PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	California				Florida	Texas
	Arizona	Desert Valleys	Other Areas			
(Dollars per Packed 32-Pound Carton)						
1959-60	.75	1.15	1.18	.62	.56	
1960-61	.72	.97	1.08	.60	.51	
1961-62	.56	1.03	1.14	.54	.51	
1962-63	.96	1.56	2.13	.90	1.70	
1963-64	1.20	1.73	1.84	1.16	1.38	
1964-65	.88	1.42	1.51	.94	.97	
1965-66	1.00	1.59	1.80	.92	.82	
1966-67	1.12	1.30	1.66	.66	.53	
1967-68	1.15	1.79	1.92	1.36	.93	
1968-69	1.42	1.56	2.24	.91	.74	

Source: (17).

TABLE G-15. FRESH GRAPEFRUIT PRICES: EQUIVALENT F.O.B. RETURNS PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	California				Florida	Texas
	Arizona	Desert Valleys	Other Areas			
(Dollars per Packed 32-Pound Carton)						
1959-60	1.42	1.78	1.86	1.16	1.14	
1960-61	1.40	1.59	1.75	1.14	1.21	
1961-62	1.32	1.62	1.80	1.08	1.23	
1962-63	1.62	2.14	2.76	1.56	2.40	
1963-64	1.85	2.37	2.44	1.76	2.04	
1964-65	1.58	2.06	2.13	1.58	1.60	
1965-66	1.75	2.26	2.42	1.56	1.46	
1966-67	1.85	2.00	2.30	1.32	1.23	
1967-68	1.98	2.60	2.73	1.96	1.76	
1968-69	2.20	2.35	3.01	1.51	1.60	

Source: (17).

TABLE G-16. PROCESSED GRAPEFRUIT PRICES: EQUIVALENT ON TREE RETURNS PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.

Season	California				Florida	Texas
	Arizona	Desert Valleys	Other Areas			
(Dollars per Packed 32-Pound Carton)						
1959-60	.07	-.04	.06		.29	.24
1960-61	.12	-.10	.08		.25	.10
1961-62	.02	.00	-.02		.10	.02
1962-63	-.02	.06	.10		.21	<u>1/</u>
1963-64	.14	.52	.42		.68	.71
1964-65	.03	.13	.16		.35	.45
1965-66	.17	.25	.16		.37	.32
1966-67	.10	.13	.08		.17	.11
1967-68	.25	.16	.08		.48	.44
1968-69	.05	-.07	-.10		.11	.12

1/ Data not available.

Source: (17).

TABLE G-17. FRESH GRAPEFRUIT COSTS: PACKINGHOUSE CHARGES PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona	California		Florida	Texas
		Desert Valleys	Other Areas		
(Dollars per Packed 32-Pound Carton)					
1959-60	.67	.63	.68	.54	.58
1960-61	.68	.62	.67	.54	.70
1961-62	.76	.59	.66	.54	.72
1962-63	.66	.58	.63	.66	.70
1963-64	.65	.64	.60	.60	.66
1964-65	.70	.64	.62	.64	.63
1965-66	.75	.67	.62	.64	.64
1966-67	.73	.70	.64	.66	.70
1967-68	.83	.81	.81	.60	.83
1968-69	.78	.79	.77	.60	.86

<sup>1/</sup> Calculated by subtracting Fresh Packinghouse Door Returns from F.O.B. Returns.

Sources: Tables G-14 and G-15.

TABLE G-18. FRESH GRAPEFRUIT COSTS: PICKING AND HAULING CHARGES PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona	California		Florida	Texas
		Desert Valleys	Other Areas		
(Dollars per Packed 32-Pound Carton)					
1959-60	.11	.19	.18	.12	.08
1960-61	.11	.17	.18	.12	.08
1961-62	.14	.33	.22	.14	.08
1962-63	.17	.20	.23	.13	.08
1963-64	.18	.19	.26	.16	.10
1964-65	.20	.23	.23	.16	.12
1965-66	.22	.23	.26	.20	.14
1966-67	.22	.23	.28	.20	.14
1967-68	.25	.26	.28	.22	.14
1968-69	.27	.25	.28	.24	.14

<sup>1/</sup> Calculated by subtracting Fresh On Tree Returns from Fresh Packinghouse Door Returns.

Sources: Tables G-13 and G-14.



## LEMONS

Commercial lemon production in the United States is concentrated in California and Arizona. During the 1960s, total bearing acreage of lemons declined from about 56,000 to 46,000 acres. Arizona acreage increased from 4,300 to 8,500 acres, whereas in California bearing acreage declined from about 52,000 to 38,000 acres.

Production of lemons in the U. S. fluctuated between 26 million cartons (38 pounds per carton) in 1962-63 and 38 million cartons in 1963-64 (Figure 12). Production in California since the mid 1960s has gradually declined, compared to a gradual increase in Arizona. However, more than three-fourths of U. S. lemons are produced in California.

Approximately 60 percent of the California lemon crop is sold fresh (Figure 13), whereas about 60 percent of Arizona's lemons are processed.

Considering producing districts in the two-state area, almost 75 percent of the 1968-69 U. S. lemon crop was grown in Southern California. The Arizona and California Desert District accounted for about a fourth of the crop. However, in the 1960s bearing acreage of lemons declined in the Southern California District from about 53,000 to 36,000 acres. Also, nonbearing lemon acreage declined in this district.

In contrast, in the Arizona and California Desert District, bearing acreage increased from 4,896 to 10,445 acres, and nonbearing increased from 236 to 11,661 acres. Also, for the Central California District, total lemon acreage increased from less than 2,000 to almost 5,700 acres. Changes in production among districts reflect the changes

in lemon acreage.

Shipments of fresh lemons from the Southern California District are greatest in the summer months (Figure 14). Arizona and California Desert District shipments of fresh lemons reach peak levels during the fall. Shipments are greatest from Central California during the winter months.

On tree returns per packed carton of lemons have gradually increased in California since 1953-54, but have been relatively unstable in Arizona.

Annual average packinghouse charges per carton have fluctuated between \$0.85 and \$1.03 in Arizona, and between \$0.96 and \$1.11 in California. Picking and hauling charges gradually increased in both states during the 1950s - from 25 to 70 cents per carton in Arizona and from 38 to 59 cents per carton in California.

TABLE L-1. LEMON ACREAGE: BEARING ACREAGE BY STATE AND UNITED STATES,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	United States
		(Thousand Acres)	
1959-60	4.3	51.7	56.0
1960-61	5.0	50.7	55.7
1961-62	5.8	49.7	55.5
1962-63	6.5	46.3	52.8
1963-64	6.7	46.9	53.6
1964-65	6.8	42.9	49.7
1965-66	6.9	40.5	47.4
1966-67	7.3	39.5	46.8
1967-68	7.8	38.1	45.9
1968-69	8.5	<u>1/</u>	<u>1/</u>

1/ Data not available.

Sources: (1), (6), (9).

TABLE L-2. LEMON PRODUCTION: TOTAL BY STATE AND UNITED STATES,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	United States
		(Thousand Packed 38-Pound Cartons)	
1959-60	2,260	34,200	36,460
1960-61	1,080	27,600	28,680
1961-62	3,080	30,400	33,480
1962-63	980	25,000	25,980
1963-64	3,480	34,600	38,080
1964-65	2,220	26,200	28,420
1965-66	3,940	27,600	31,540
1966-67	5,620	30,200	35,820
1967-68	6,500	27,200	33,700
1968-69	7,020	24,600	31,620

Sources: (13), (14), (15), (16).

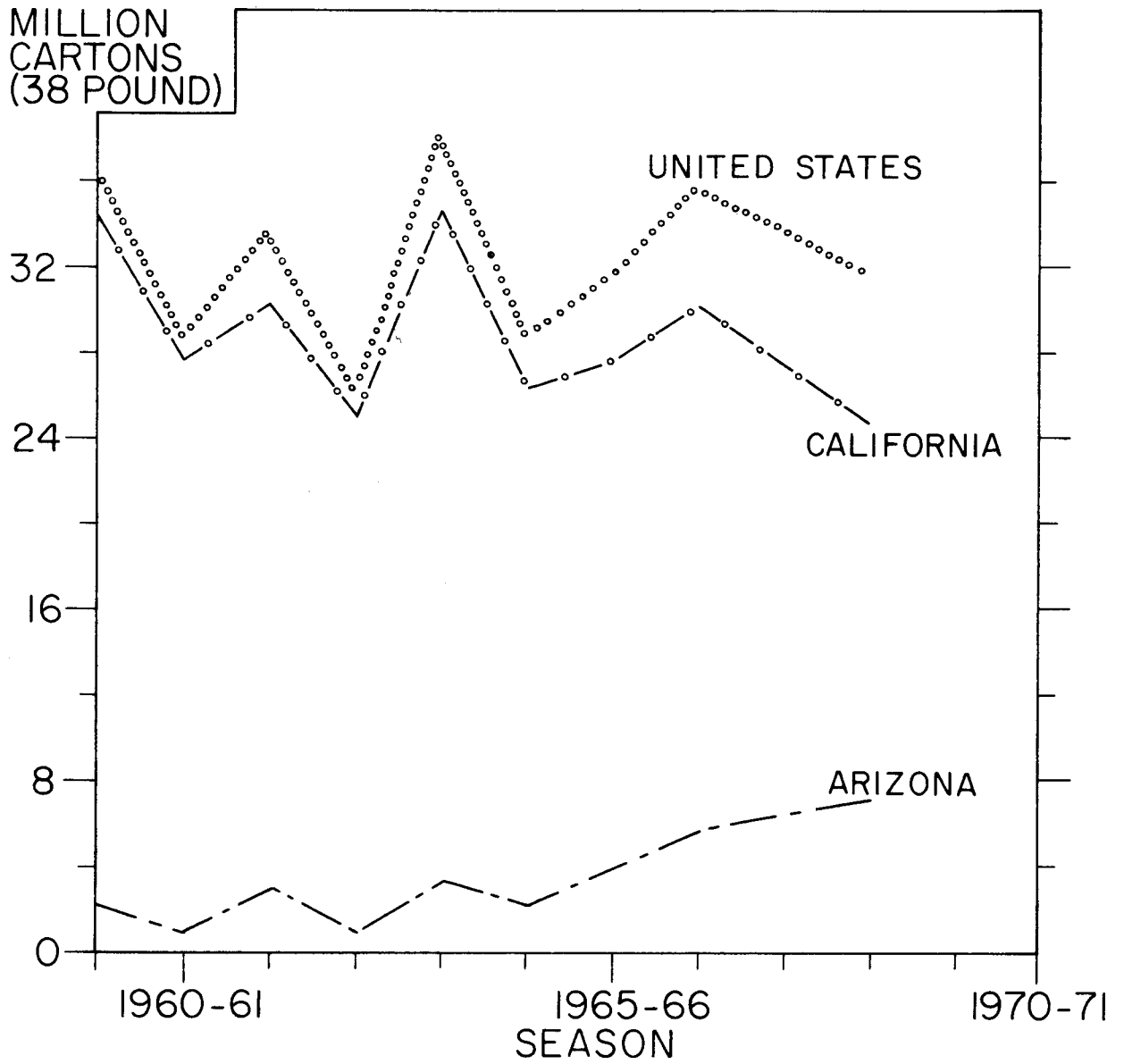


FIGURE 12. LEMON PRODUCTION BY STATE AND UNITED STATES, 1959-60 THROUGH 1968-69.

SOURCE: TABLE L-2.

TABLE L-3. FRESH LEMON SALES: TOTAL BY STATE AND UNITED STATES,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	United States
(Thousand Packed 38-Pound Cartons)			
1959-60	822	17,890	18,712
1960-61	792	18,540	19,332
1961-62	988	17,010	17,998
1962-63	650	17,790	18,440
1963-64	876	18,000	18,876
1964-65	1,168	16,740	17,908
1965-66	1,286	17,020	18,306
1966-67	2,066	16,480	18,546
1967-68	2,616	16,140	18,756
1968-69	2,728	15,200	17,928

Sources: (13), (14), (15), (16).

TABLE L-4. LEMONS PROCESSED: TOTAL BY STATE AND UNITED STATES,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	United States
(Equivalent Thousand Packed 38-Pound Cartons)			
1959-60	1,436	16,280	17,716
1960-61	286	9,030	9,316
1961-62	2,088	13,360	15,448
1962-63	328	7,180	7,508
1963-64	2,600	16,570	19,170
1964-65	1,048	9,430	10,478
1965-66	2,650	10,550	13,200
1966-67	3,546	13,700	17,246
1967-68	3,874	11,030	14,904
1968-69	4,282	9,380	13,662

Sources: (13), (14), (15), (16).

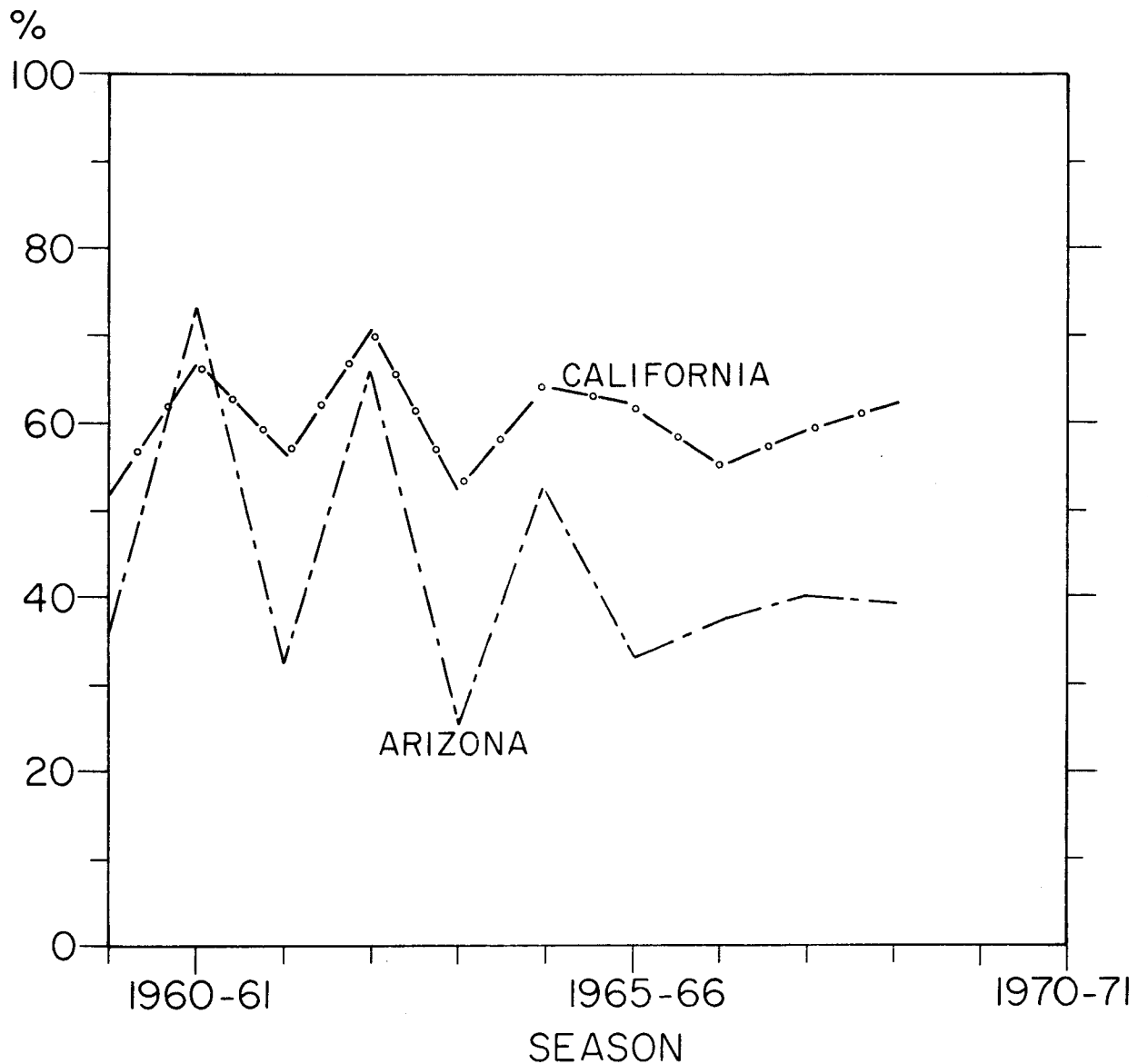


FIGURE 13. PERCENT OF TOTAL LEMON PRODUCTION SOLD FRESH, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES L-2 AND L-3.

TABLE L-5. LEMON ACREAGE: BEARING ACREAGE BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Central California	Southern California	Arizona & California Desert	Total
(Acres)				
1959-60	1,781	53,396	4,896	60,073
1960-61	1,713	50,148	5,570	57,431
1961-62	1,983	48,614	6,995	57,592
1962-63	1,883	46,123	6,866	54,872
1963-64	1,702	43,934	7,589	53,225
1964-65	1,764	41,242	7,532	50,538
1965-66	1,754	39,126	7,604	48,484
1966-67	2,014	38,770	7,751	48,535
1967-68	1,989	37,840	8,073	47,902
1968-69	2,517	36,105	10,445	49,067

Source: (4).

TABLE L-6. LEMON ACREAGE: NONBEARING ACREAGE BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Central California	Southern California	Arizona & California Desert	Total
(Acres)				
1959-60	88	7,291	236	7,615
1960-61	78	3,616	160	3,854
1961-62	10	2,276	570	2,856
1962-63	35	1,789	13	1,837
1963-64	350	1,852	489	2,691
1964-65	555	2,214	1,742	4,511
1965-66	1,001	2,678	3,730	7,409
1966-67	2,776	4,340	6,323	13,439
1967-68	3,135	4,427	9,936	17,498
1968-69	3,172	4,206	11,661	19,039

Source: (4).

TABLE L-7. ARIZONA-CALIFORNIA LEMON YIELDS: BY PRODUCING DISTRICT,  
SEASONS 1959-60 THROUGH 1968-69.

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Season	Central California	Southern California	Arizona and California Desert
	(38-Pound Cartons Per Acre)		
1959-60	561	608	479
1960-61	356	521	202
1961-62	379	604	453
1962-63	278	532	156
1963-64	348	754	495
1964-65	572	607	337
1965-66	654	675	550
1966-67	669	737	755
1967-68	232	680	862
1968-69	401	636	726

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Sources: Tables L-5 and L-8.



TABLE L-8. LEMON PRODUCTION: TOTAL BY PRODUCING DISTRICT, SEASONS  
1959-60 THROUGH 1968-69.

Season	Central California	Southern California	Arizona & California Desert	Total
(Thousand Packed 38-Pound Cartons)				
1959-60	999	32,482	2,345	35,825
1960-61	610	26,126	1,127	27,863
1961-62	751	29,381	3,169	33,301
1962-63	523	24,557	1,069	26,149
1963-64	593	33,129	3,757	37,479
1964-65	1,009	25,039	2,537	28,585
1965-66	1,147	26,426	4,181	31,754
1966-67	1,347	28,584	5,852	35,783
1967-68	461	25,743	6,928	33,132
1968-69	1,010	22,980	7,583	31,573

Source: (4).

TABLE L-9. FRESH LEMON SALES: TOTAL BY PRODUCING DISTRICT, SEASONS  
1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Central California	Southern California	Arizona & California Desert	Total
(Thousand Packed 38-Pound Cartons)				
1959-60	557	16,938	823	18,318
1960-61	440	17,552	821	18,813
1961-62	471	16,527	1,063	18,061
1962-63	392	17,275	723	18,390
1963-64	405	17,552	1,009	18,966
1964-65	715	15,831	1,368	17,914
1965-66	666	16,288	1,434	18,388
1966-67	703	15,703	2,037	18,443
1967-68	153	15,647	2,845	18,645
1968-69	677	14,057	2,973	17,707

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

Source: (4).

TABLE L-10. LEMONS PROCESSED: TOTAL BY PRODUCING DISTRICT, SEASONS  
1959-60 THROUGH 1968-69.

Season	Central California	Southern California	Arizona & California Desert	Total
(Equivalent Thousand Packed 38-Pound Cartons)				
1959-60	432	15,274	1,514	17,220
1960-61	161	8,438	303	8,902
1961-62	274	12,569	2,096	14,939
1962-63	127	7,129	341	7,597
1963-64	186	15,338	2,720	18,244
1964-65	294	9,208	1,169	10,671
1965-66	481	10,138	2,747	13,366
1966-67	644	12,880	3,815	17,339
1967-68	309	10,097	4,084	14,490
1968-69	333	8,923	4,610	13,866

Source: (4).

TABLE L-11. LEMON EXPORTS: TOTAL BY PRODUCING DISTRICT, SEASONS  
1959-60 THROUGH 1968-69.

Season	Central California	Southern California	Arizona & California Desert	Total
(Thousand Packed 38-Pound Cartons)				
1959-60	66	4,162	82	4,310
1960-61	45	4,611	184	4,840
1961-62	76	3,449	345	3,870
1962-63	31	4,839	173	5,043
1963-64	46	4,929	227	5,202
1964-65	93	4,378	343	4,814
1965-66	101	5,119	375	5,595
1966-67	198	5,465	430	6,093
1967-68	9	5,664	578	6,251
1968-69	288	4,419	643	5,350

Source: (4).

TABLE L-12. ARIZONA AND CALIFORNIA DESERT LEMON SHIPMENTS: MONTHLY SHIPMENTS  
OF FRESH LEMONS, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Month												Total <sup>2/</sup>
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Apr.	May	June	
	(Thousand Packed 38-Pound Cartons)												
1959-60	0	1	40	277	192	206	94	14	0	0	0	0	823
1960-61	0	1	103	262	299	146	9	0	0	0	0	0	821
1961-62	2	14	197	305	326	159	60	0	0	0	0	0	1,063
1962-63	0	0	57	139	290	196	41	0	0	0	0	0	723
1963-64	0	11	107	394	236	158	101	1	0	0	0	0	1,009
1964-65	0	0	22	425	477	340	98	5	0	0	0	0	1,368
1965-66	0	2	105	240	412	340	225	100	9	0	0	0	1,434
1966-67	0	0	98	449	610	445	331	103	0	0	0	0	2,037
1967-68	0	4	110	590	904	488	581	168	0	0	0	0	2,845
1968-69	0	4	237	855	634	565	543	131	3	1	1	1	2,973

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Summation of monthly shipments may not equal total due to rounding.

Source: (4).

TABLE L-13. CENTRAL CALIFORNIA LEMON SHIPMENTS: MONTHLY SHIPMENTS OF FRESH LEMONS, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Month												Total <sup>2/</sup>
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	
	(Thousand Packed 38-Pound Cartons)												
1959-60	0	37	103	183	88	61	55	22	4	2			557
1960-61	1	18	57	212	101	34	8	8	0	0			440
1961-62	0	1	91	143	117	59	30	18	13	1			471
1962-63	0	3	127	178	68	6	11	0	0	0			392
1963-64	0	1	56	122	134	37	31	24	0	0			405
1964-65	0	1	74	216	193	111	84	32	6	0			715
1965-66	0	0	102	168	166	118	71	25	17	1			666
1966-67	0	7	126	185	151	119	83	24	8	0			703
1967-68	0	6	46	45	36	11	9	0	0	0			153
1968-69	0	12	42	132	186	134	106	55	10	0			677

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Summation of monthly shipments may not equal total due to rounding.

Source: (4).

TABLE L-14. SOUTHERN CALIFORNIA LEMON SHIPMENTS: MONTHLY SHIPMENTS OF FRESH LEMONS, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Month												Total <sup>2/</sup>
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
	(Thousand Packed 38-Pound Cartons)												
1959-60	523	810	792	1,082	1,725	1,774	2,241	2,631	1,956	1,584	1,300	520	16,938
1960-61	462	839	934	1,105	1,628	1,438	1,876	2,915	1,975	2,232	1,426	723	17,552
1961-62	842	690	950	1,066	1,587	1,525	2,792	1,934	1,702	1,706	1,072	662	16,527
1962-63	501	521	937	877	1,158	1,489	2,364	2,541	2,157	2,544	1,243	941	17,275
1963-64	484	538	940	1,081	1,209	1,974	2,368	2,350	2,926	1,618	1,175	889	17,552
1964-65	351	517	656	685	1,309	1,330	1,975	1,992	2,448	1,906	1,861	801	15,831
1965-66	471	784	672	873	1,664	1,600	1,804	2,599	2,249	1,838	1,184	551	16,288
1966-67	512	420	557	939	1,521	1,671	2,324	2,579	1,884	1,815	942	538	15,703
1967-68	445	474	688	926	1,245	1,596	2,125	2,130	2,545	1,734	1,138	601	15,647
1968-69	264	418	683	851	1,174	1,495	2,076	1,754	2,179	1,503	1,081	578	14,057

<sup>1/</sup> Includes intrastate, interstate, and export shipments.

<sup>2/</sup> Summation of monthly shipments may not equal total due to rounding.

Source: (4).

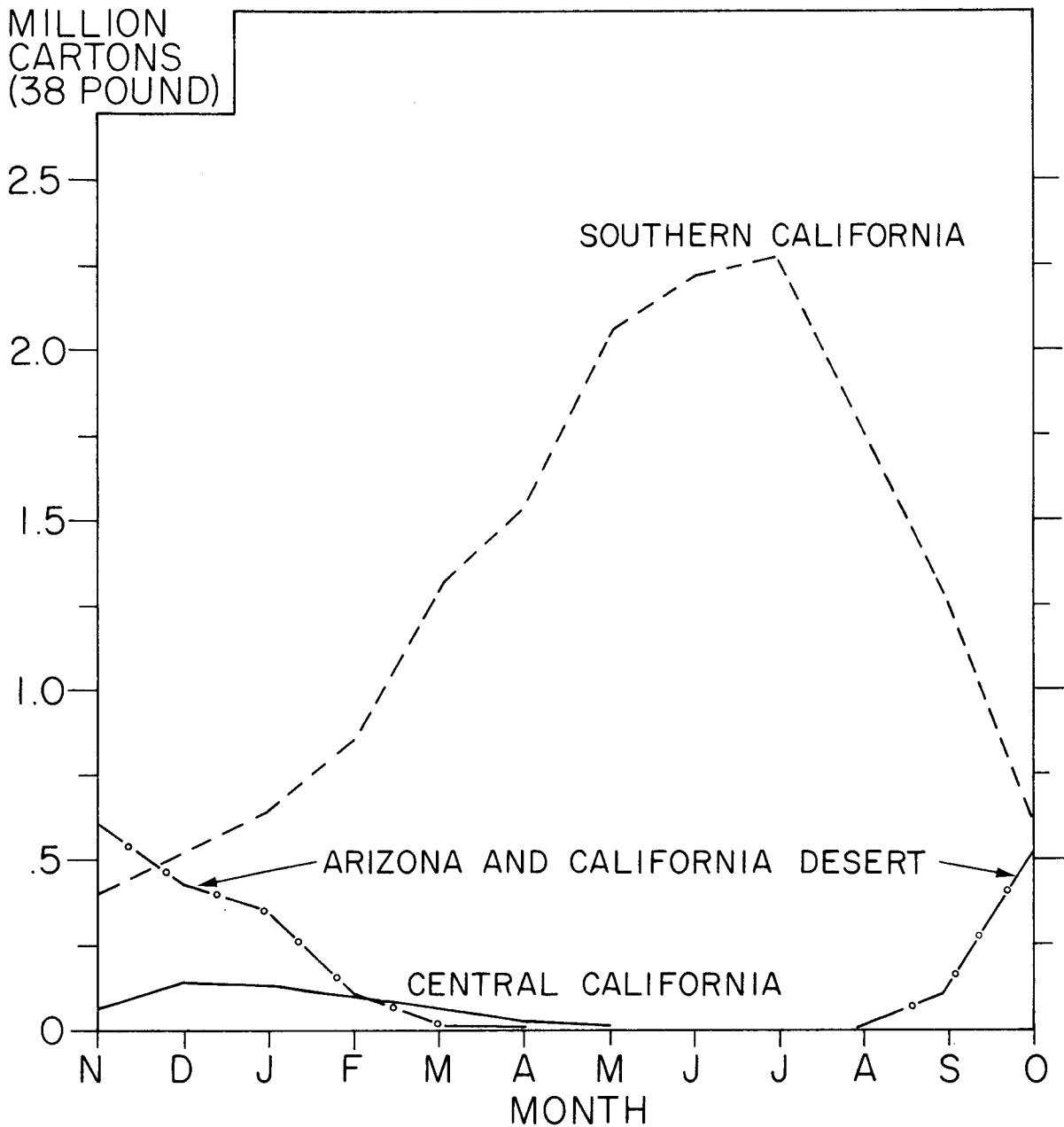


FIGURE 14. MONTHLY SHIPMENTS OF FRESH LEMONS, BY PRODUCING DISTRICT, FIVE YEAR AVERAGE, 1964-65 THROUGH 1968-69.

SOURCES: TABLES L-12, L-13, AND L-14.

TABLE L-15. FRESH LEMON SHIPMENTS: CARLOT UNLOADS IN TWENTY U. S. CITIES, BY PRODUCING STATE, YEARS 1957, 1962 and 1967.<sup>1/</sup>

Destination	Arizona			California		
	1957	1962	1967	1957	1962	1967
	(Carlots) <sup>2/</sup>					
Atlanta	0	4	28	413	420	300
Boston	26	24	54	344	350	278
Buffalo	12	0	4	113	70	61
Chicago	37	35	61	631	530	373
Cincinnati	2	1	4	234	89	135
Cleveland	6	10	16	264	196	160
Dallas	6	3	14	255	231	186
Denver	10	0	4	119	142	81
Detroit	30	15	66	423	317	243
Indianapolis	7	0	0	138	98	32
Kansas City	3	1	12	148	120	99
Los Angeles	8	28	144	825	714	610
Minneapolis	0	0	3	133	45	47
New York	4	76	229	2,223	1,948	1,573
Philadelphia	34	33	120	928	771	614
Pittsburgh	17	13	22	356	253	155
Portland	0	2	4	87	86	87
Salt Lake City	0	1	2	78	52	50
San Francisco	0	3	26	255	247	259
Seattle	0	0	5	41	109	111

<sup>1/</sup> Includes truck and rail shipments.

<sup>2/</sup> One carlot is equivalent to 37,000 pounds.

Sources: (7), (10).

TABLE L-16. ARIZONA LEMON PRICES: F.O.B., PACKINGHOUSE DOOR, AND EQUIVALENT ON TREE RETURNS PER PACKED CARTON, SEASONS 1959-60 THROUGH 1968-69.

Season	F.O.B.	Packinghouse Door-Fresh	Equivalent on Tree		
			All	Fresh	Processed
(Dollars per Packed 38-Pound Carton)					
1959-60	2.75	1.90	.78	1.65	.28
1960-61	3.45	2.50	1.66	2.22	.08
1961-62	2.52	1.50	.43	1.02	.15
1962-63	4.08	3.10	1.82	2.60	.28
1963-64	2.55	1.52	.84	1.10	.74
1964-65	3.35	2.35	1.06	1.75	.30
1965-66	2.88	1.90	.58	1.25	.25
1966-67	3.58	2.72	1.00	2.22	.28
1967-68	4.00	3.00	1.12	2.42	.25
1968-69	3.32	2.38	.72	1.68	.12

Source: (17).

TABLE L-17. CALIFORNIA LEMON PRICES: F.O.B., PACKINGHOUSE DOOR, AND EQUIVALENT ON TREE RETURNS PER PACKED CARTON, SEASONS 1959-60 THROUGH 1968-69.

Season	F.O.B.	Packinghouse Door-Fresh	Equivalent on Tree		
			All	Fresh	Processed
(Dollars per Packed 38-Pound Carton)					
1959-60	2.60	1.64	.58	1.26	-.16
1960-61	2.58	1.58	.81	1.17	.07
1961-62	2.56	1.56	.74	1.17	.18
1962-63	3.27	2.30	1.56	1.88	.79
1963-64	2.64	1.75	.88	1.29	.44
1964-65	3.12	2.15	1.10	1.60	.23
1965-66	3.20	2.23	1.15	1.68	.30
1966-67	3.36	2.36	1.12	1.82	.29
1967-68	3.79	2.69	1.43	2.14	.39
1968-69	4.20	3.09	1.65	2.50	.27

Source: (17).



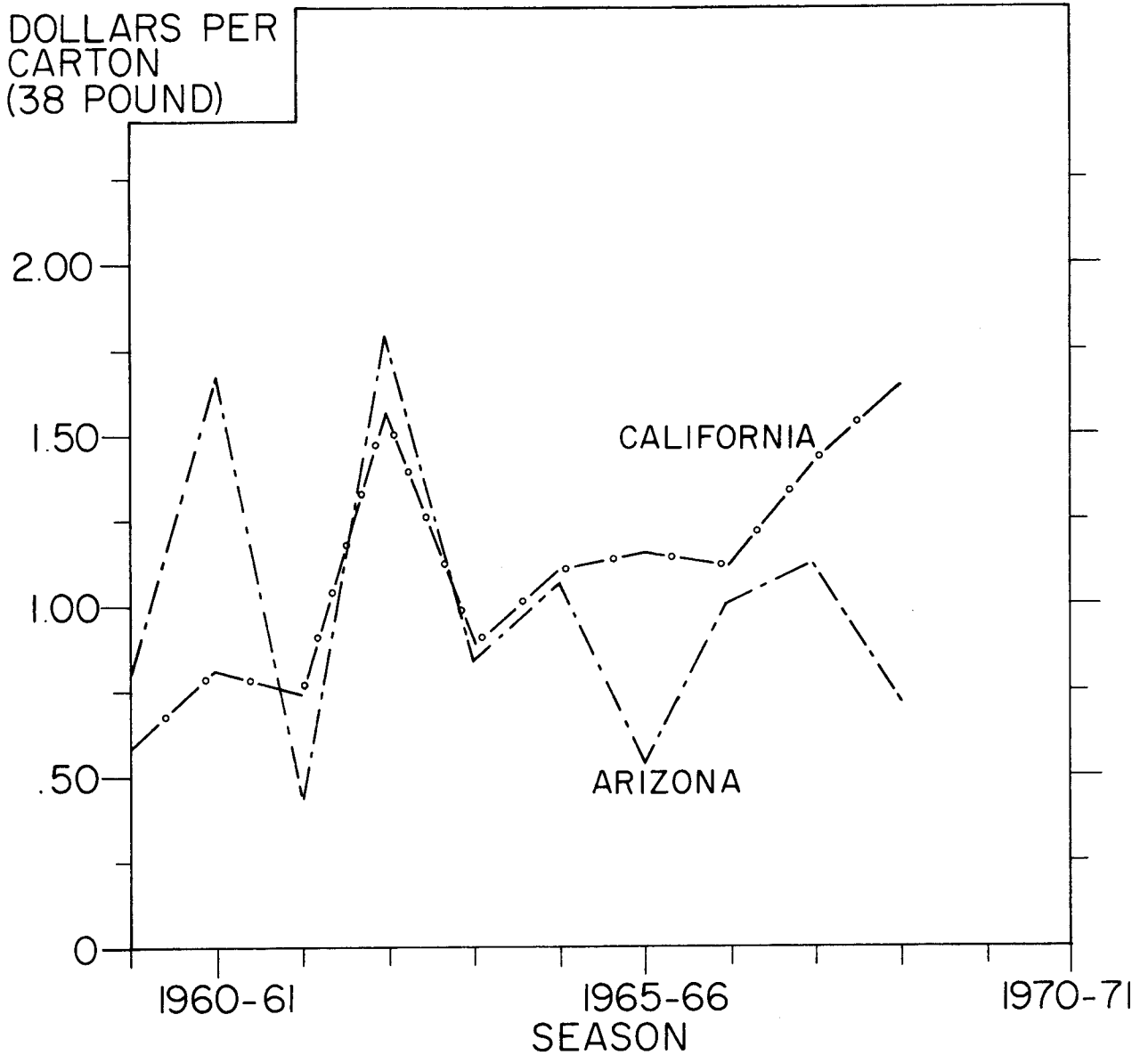


FIGURE 15. ON TREE RETURNS PER PACKED CARTON OF LEMONS, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES L-16 AND L-17.

TABLE L-18. FRESH LEMON COSTS: PACKINGHOUSE CHARGES PER PACKED CARTON, BY STATE, SEASONS 1959-69 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona	California
	(Dollars per Packed 38-Pound Carton)	
1959-60	.85	.96
1960-61	.95	1.00
1961-62	1.02	1.00
1962-63	.98	.97
1963-64	1.03	.89
1964-65	1.00	.97
1965-66	.98	.97
1966-67	.86	1.00
1967-68	1.00	1.10
1968-69	.94	1.11

<sup>1/</sup> Calculated by subtracting Fresh Packinghouse Door Returns from F.O.B. Returns.

Sources: Tables L-16 and L-17.

TABLE L-19. FRESH LEMON COSTS: PICKING AND HAULING CHARGES PER PACKED CARTON, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona	California
	(Dollars per Packed 38-Pound Carton)	
1959-60	.25	.38
1960-61	.28	.41
1961-62	.48	.39
1962-63	.50	.42
1963-64	.42	.46
1964-65	.60	.55
1965-66	.65	.55
1966-67	.50	.54
1967-68	.58	.55
1968-69	.70	.59

<sup>1/</sup> Calculated by subtracting Fresh On Tree Returns from Fresh Packinghouse Door Returns.

Sources: Tables L-16 and L-17.

## TANGERINES

Florida is the major tangerine production area in the United States. Bearing tangerine acreage in Florida declined from 17,800 acres in 1959-60 to 12,000 acres in 1963-64, then increased to 14,800 acres by 1967-68. California's bearing acreage increased from 1,800 acres in 1961-62 to 4,700 acres in 1967-68. Arizona had 3,300 acres in 1967-68.

Tangerine production in the U. S. fluctuates widely from year to year. During the 1960s annual production ranged from a low of 7.3 million cartons (28 pounds per carton) in 1962-63 to a high of 21.1 million cartons in 1966-67 (Figure 16).

Almost 14.6 million cartons of tangerines were grown in Florida in 1968-69. This was 87 percent of the total U. S. crop of 16.8 million cartons. California produced 1.7 million cartons, and Arizona almost 0.5 million cartons in 1968-69.

During most seasons between 60 and 75 percent of the U. S. tangerine crop is sold fresh. A higher percentage of Arizona tangerines goes to fresh market outlets than is true for California and Florida production (Figure 17). However, the proportions of the crops sold fresh from each state have been declining during recent years. Per capita consumption of fresh tangerines varied from 0.8 to 1.7 pounds annually during the 1960s.

Tangerine prices vary appreciably from state to state and year to year. For example, the 1966-67 average f.o.b. price of \$3.02 per carton in Arizona was more than double the average price of \$1.47 in Florida. For 1968-69, f.o.b. prices averaged \$2.17 per carton in Florida and \$3.08 in California.

Packinghouse charges in Arizona for 1968-69 averaged 80 cents per carton, compared to 66 cents and 65 cents for California and Florida, respectively.

Picking and hauling costs in 1968-69 were 35, 28 and 43 cents per carton for Arizona, California and Florida, respectively.

Primarily because of yearly fluctuations in prices, on tree returns for tangerines vary appreciably from area to area and year to year (Figure 18). For 1968-69, on tree returns for fresh sales were \$1.09 per carton in Florida, \$1.57 in Arizona and \$2.14 in California.

TABLE T-1. TANGERINE ACREAGE: BEARING ACREAGE BY STATE AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	United States
(Thousand Acres)				
1959-60	<u>1/</u>	<u>1/</u>	17.8	17.8
1960-61	<u>1/</u>	<u>1/</u>	15.8	15.8
1961-62	<u>1/</u>	1.8	15.4	17.2
1962-63	<u>1/</u>	2.0	13.9	15.9
1963-64	<u>1/</u>	2.7	12.0	14.7
1964-65	<u>1/</u>	3.2	12.5	15.7
1965-66	<u>1/</u>	3.8	12.8	16.6
1966-67	1.9	4.2	13.4	19.5
1967-68	3.3	4.7	14.8	22.8
1968-69	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>

1/ Data not available.

Source: (6).

TABLE T-2. TANGERINE PRODUCTION: TOTAL BY STATE AND UNITED STATES, SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	United States
(Thousand Packed 28-Pound Cartons)				
1959-60	<u>1/</u>	<u>1/</u>	9,450	9,450
1960-61	<u>1/</u>	<u>1/</u>	16,625	16,625
1961-62	<u>1/</u>	696	13,571	14,267
1962-63	<u>1/</u>	562	6,786	7,348
1963-64	<u>1/</u>	777	12,214	12,991
1964-65	375	1,071	13,232	14,678
1965-66	482	938	12,214	13,634
1966-67	536	1,607	19,000	21,143
1967-68	402	1,500	9,450	11,352
1968-69	455	1,714	14,589	16,758

1/ Data not available.

Sources: (13), (14), (15), (16).

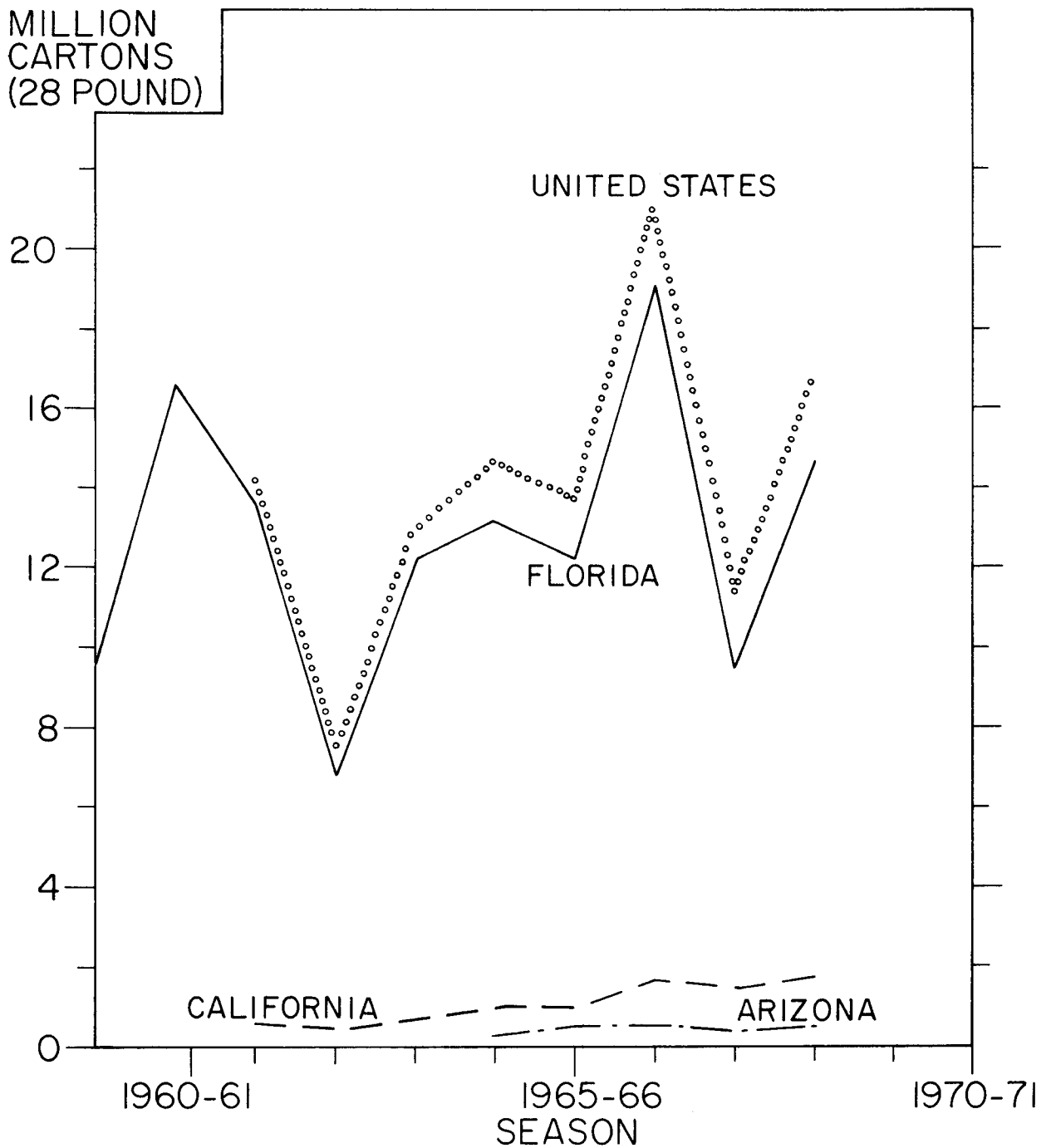


FIGURE 16. TANGERINE PRODUCTION BY STATE AND UNITED STATES, 1959-60 THROUGH 1968-69.

SOURCE: TABLE T-2.

TABLE T-3. FRESH TANGERINE SALES: TOTAL BY STATE AND UNITED STATES,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	United States
(Thousand Packed 28-Pound Cartons)				
1959-60	<u>1/</u>	<u>1/</u>	7,088	7,088
1960-61	<u>1/</u>	<u>1/</u>	10,999	10,999
1961-62	<u>1/</u>	662	9,144	9,806
1962-63	<u>1/</u>	525	5,361	5,886
1963-64	<u>1/</u>	734	8,133	8,867
1964-65	356	956	8,519	9,831
1965-66	423	790	9,032	10,245
1966-67	458	1,071	10,049	11,578
1967-68	335	1,205	7,003	8,543
1968-69	356	1,098	7,708	9,162

1/ Data not available.

Sources: (13), (14), (15), (16).

TABLE T-4. TANGERINES PROCESSED: TOTAL BY STATE AND UNITED STATES,  
SEASONS 1959-60 THROUGH 1968-69.

Season	Arizona	California	Florida	United States
(Equivalent Thousand Packed 28-Pound Cartons)				
1959-60	<u>1/</u>	<u>1/</u>	1,836	1,836
1960-61	<u>1/</u>	<u>1/</u>	5,388	5,388
1961-62	<u>1/</u>	8	4,190	4,198
1962-63	<u>1/</u>	11	1,357	1,368
1963-64	<u>1/</u>	16	3,844	3,860
1964-65	16	88	3,966	4,070
1965-66	56	128	2,945	3,129
1966-67	70	509	3,624	4,203
1967-68	56	268	2,266	2,590
1968-69	80	589	3,640	4,309

1/ Data not available.

Sources: (13), (14), (15), (16).

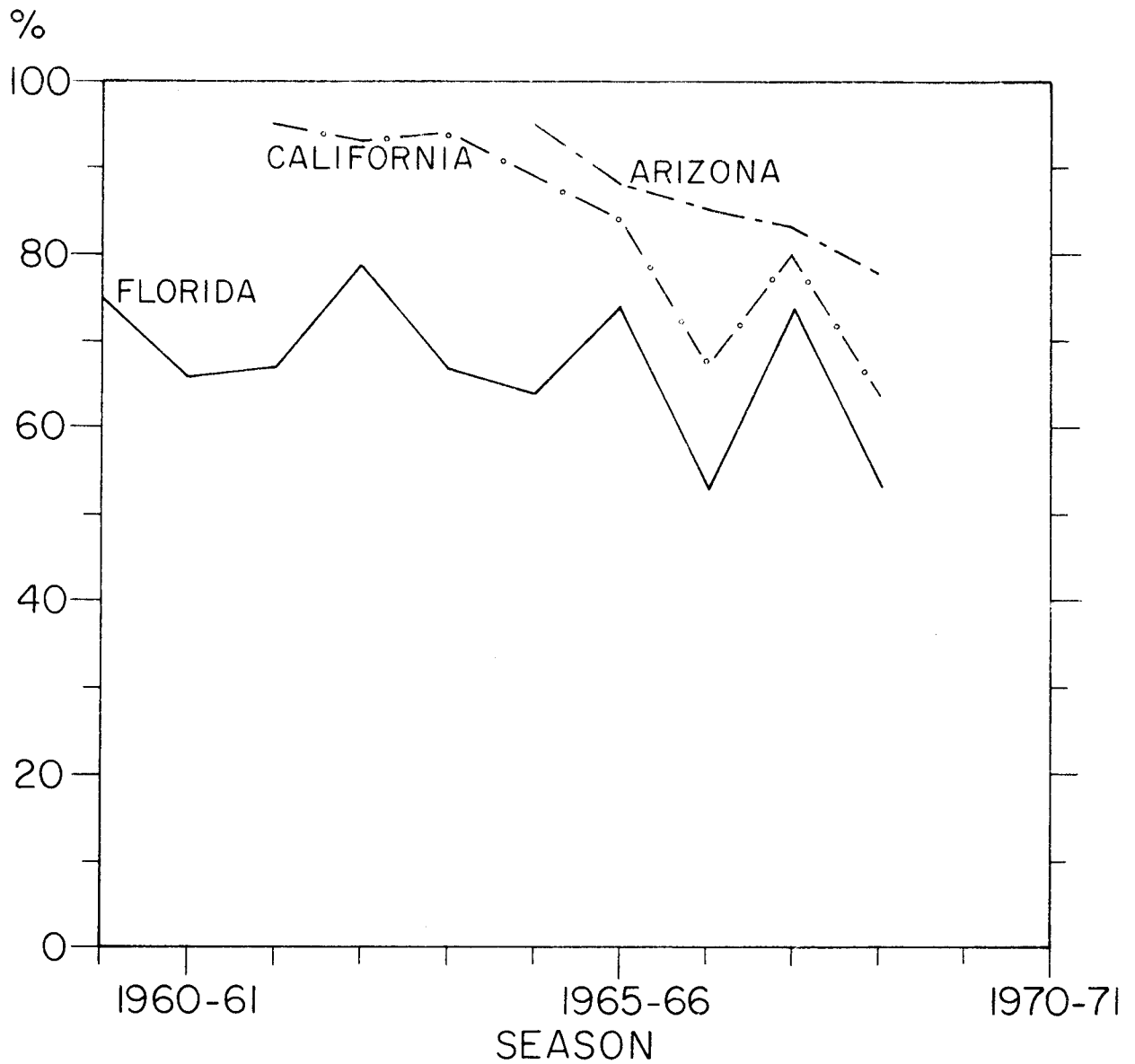


FIGURE 17. PERCENT OF TOTAL TANGERINE PRODUCTION SOLD FRESH, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES T-2 AND T-3.



TABLE T-5. ARIZONA TANGERINE PRICES: F.O.B., PACKINGHOUSE DOOR, AND EQUIVALENT ON TREE RETURNS PER PACKED CARTON, SEASONS 1965-66 THROUGH 1968-69.

Season	F.O.B.	Packinghouse Door-Fresh	Equivalent on Tree		
			All	Fresh	Processed
(Dollars per Packed 28-Pound Carton)					
1965-66	2.87	2.14	1.55	1.74	.15
1966-67	3.02	2.17	1.60	1.83	.07
1967-68	2.58	1.77	1.26	1.46	.19
1968-69	2.72	1.92	1.27	1.57	.15

Source: (17).

TABLE T-6. CALIFORNIA TANGERINE PRICES: F.O.B., PACKINGHOUSE DOOR, AND EQUIVALENT ON TREE RETURNS PER PACKED CARTON, SEASONS 1965-66 THROUGH 1968-69.

Season	F.O.B.	Packinghouse Door-Fresh	Equivalent on Tree		
			All	Fresh	Processed
(Dollars per Packed 28-Pound Carton)					
1965-66	2.78	1.97	1.31	1.55	-.14
1966-67	2.61	1.80	.85	1.37	-.26
1967-68	3.11	2.25	1.54	1.86	.12
1968-69	3.08	2.42	1.39	2.14	-.01

Source: (17).

TABLE T-7. FLORIDA TANGERINE PRICES: F.O.B., PACKINGHOUSE DOOR, AND EQUIVALENT ON TREE RETURNS PER PACKED CARTON, SEASONS 1959-60 THROUGH 1968-69.

Season	F.O.B.	Packinghouse Door-Fresh	Equivalent on Tree		
			All	Fresh	Processed
(Dollars per Packed 28-Pound Carton)					
1959-60	1.92	1.20	.76	.96	.00
1960-61	1.52	.88	.44	.64	.04
1961-62	1.69	1.02	.60	.80	.16
1962-63	2.21	1.29	.89	1.07	.18
1963-64	2.18	1.49	.94	1.16	.45
1964-65	2.09	1.35	.79	1.03	.27
1965-66	1.90	1.18	.62	.83	.01
1966-67	1.47	.80	.31	.45	-.08
1967-68	2.64	2.01	1.26	1.60	.18
1968-69	2.17	1.52	.68	1.09	.18

Source: (17).

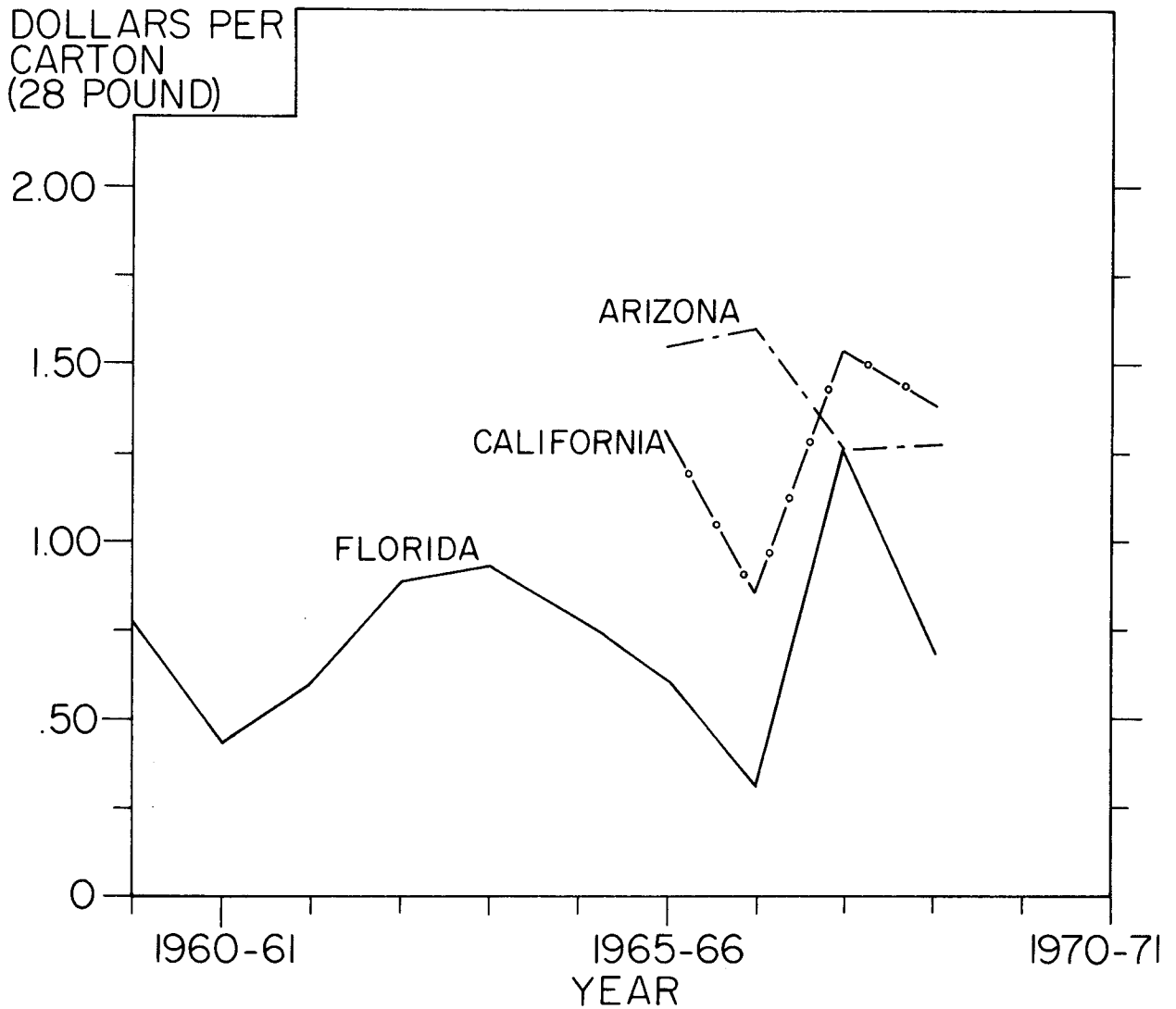


FIGURE 18: ON TREE RETURNS PER PACKED CARTON OF TANGERINES, BY STATE, 1959-60 THROUGH 1968-69.

SOURCES: TABLES T-5, T-6, AND T-7.

TABLE T- 8 . FRESH TANGERINE COSTS: PACKINGHOUSE CHARGES PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona	California	Florida
(Dollars per Packed 28-Pound Carton)			
1959-60	<u>2/</u>	<u>2/</u>	.72
1960-61	<u>2/</u>	<u>2/</u>	.64
1961-62	<u>2/</u>	<u>2/</u>	.67
1962-63	<u>2/</u>	<u>2/</u>	.92
1963-64	<u>2/</u>	<u>2/</u>	.69
1964-65	<u>2/</u>	<u>2/</u>	.74
1965-66	.73	.81	.72
1966-67	.85	.81	.67
1967-68	.81	.86	.63
1968-69	.80	.66	.65

1/ Calculated by subtracting Fresh Packinghouse Door Returns from F.O.B. Returns.

2/ Not available.

Sources: Tables T-5, T-6, and T-7.

TABLE T- 9 . FRESH TANGERINE COSTS: PICKING AND HAULING CHARGES PER PACKED CARTON, BY STATE, SEASONS 1959-60 THROUGH 1968-69.<sup>1/</sup>

Season	Arizona	California	Florida
(Dollars per Packed 28-Pound Carton)			
1959-60	<u>2/</u>	<u>2/</u>	.24
1960-61	<u>2/</u>	<u>2/</u>	.24
1961-62	<u>2/</u>	<u>2/</u>	.22
1962-63	<u>2/</u>	<u>2/</u>	.22
1963-64	<u>2/</u>	<u>2/</u>	.33
1964-65	<u>2/</u>	<u>2/</u>	.32
1965-66	.40	.42	.35
1966-67	.34	.43	.35
1967-68	.31	.39	.41
1968-69	.35	.28	.43

1/ Calculated by subtracting Fresh On Tree Returns from Fresh Packinghouse Door Returns.

2/ Not available.

Sources: Tables T-5, T-6, and T-7.

TABLE M-1. PER CAPITA CONSUMPTION: FRESH CITRUS FRUIT, UNITED STATES, YEARS 1959 THROUGH 1968<sup>1/</sup>.

Year	Oranges	Tangerines	Grapefruit	Lemons	Total Citrus <sup>2/</sup>
(Pounds per Person)					
1959	19.1	1.4	9.3	2.8	32.8
1960	18.6	1.1	9.7	2.8	32.5
1961	15.6	1.7	9.5	2.7	29.8
1962	15.1	1.5	8.7	2.7	28.5
1963	11.5	.8	6.2	2.4	21.3
1964	13.9	1.2	7.3	2.5	25.3
1965	15.9	1.4	8.0	2.3	28.1
1966	15.9	1.3	8.1	2.2	28.0
1967	17.5	1.5	8.7	2.1	30.5
1968 <sup>3/</sup>	13.7	1.0	7.8	2.1	25.3

<sup>1/</sup> Based on weight of purchases at retail level.

<sup>2/</sup> Includes tangelos and limes.

<sup>3/</sup> Preliminary.

Sources: (11), (12).

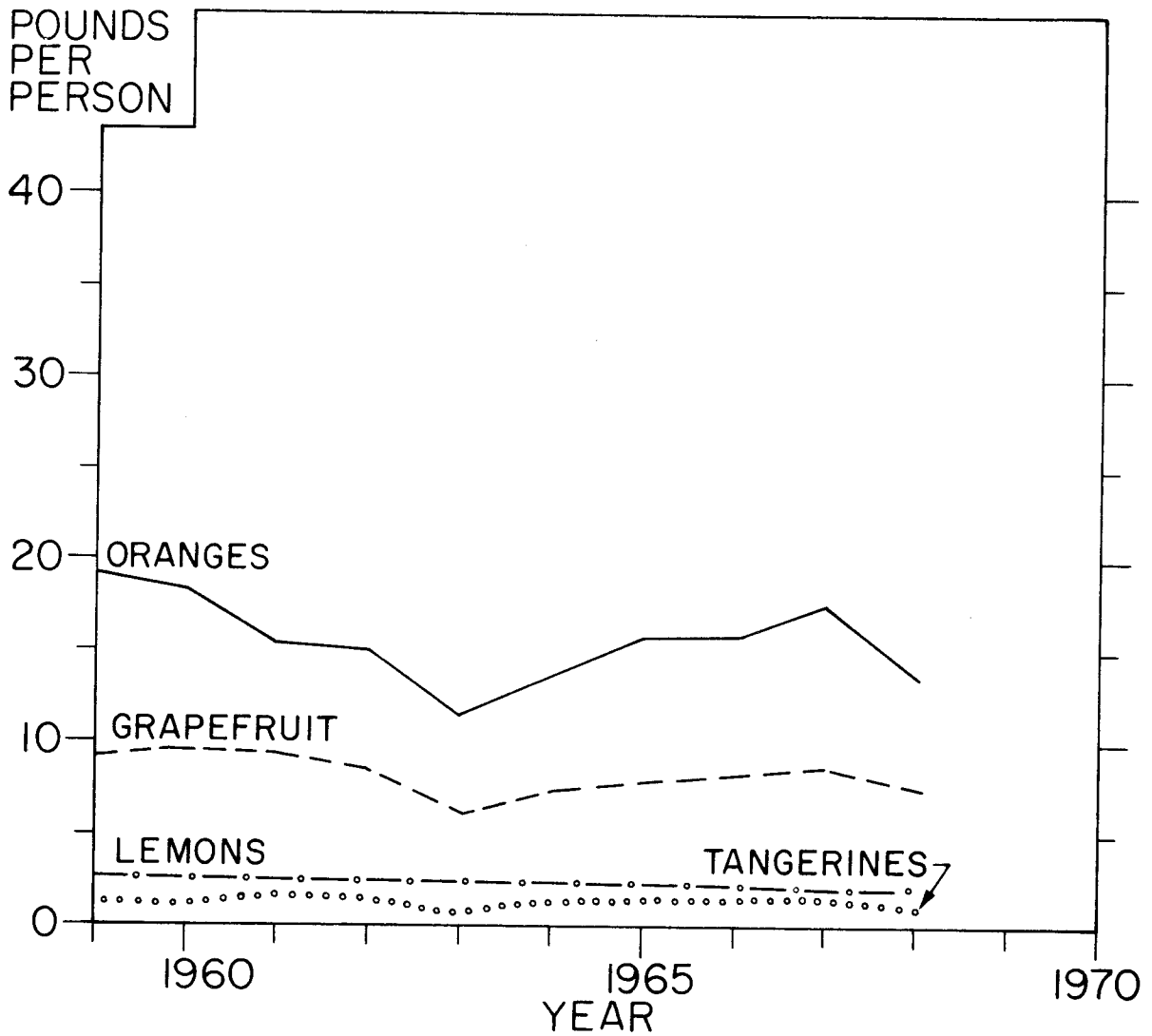


FIGURE 19. PER CAPITA CONSUMPTION OF FRESH ORANGES, GRAPEFRUIT, LEMONS AND TANGERINES, UNITED STATES, 1959 THROUGH 1968.

SOURCE: TABLE M-1.

TABLE M-2. PER CAPITA CONSUMPTION: CANNED, CHILLED, AND FROZEN CITRUS JUICES, UNITED STATES, YEARS 1959 THROUGH 1968.<sup>1/</sup>

Year	Canned		Total Citrus <sup>2/</sup>	Chilled <sup>3/</sup>		Frozen	
	Orange	Grape- fruit		Orange	Grape- fruit	Orange	Other Citrus <sup>4/</sup>
(Pounds per Person)							
1959	1.91	1.56	5.26	1.87	.03	14.49	2.15
1960	2.12	1.51	5.79	2.10	.02	15.62	1.86
1961	1.70	1.39	5.25	1.65	.03	15.30	1.43
1962	1.92	1.48	5.11	2.19	.08	17.98	1.51
1963	1.69	1.30	5.28	1.14	.03	11.84	1.20
1964	1.17	1.09	4.32	1.29	.07	10.58	1.38
1965	1.24	1.39	4.02	1.90	.05	14.10	1.33
1966	1.53	1.73	4.71	3.04	.14	13.47	1.23
1967	1.57	2.33	5.49	4.15	.23	19.49	1.56
1968 <sup>5/</sup>	1.19	2.22	5.19	3.96	.24	17.03	1.13

<sup>1/</sup> Single strength equivalent basis, rather than product weight.

<sup>2/</sup> Includes blended orange and grapefruit, lemon, lime, and tangerine juices, and citrus concentrates.

<sup>3/</sup> Produced commercially from fresh fruit in Florida; does not include reconstituted frozen juice or fresh juice produced for local sale.

<sup>4/</sup> Includes orange juice used in blends.

<sup>5/</sup> Preliminary.

Sources: (11), (12).

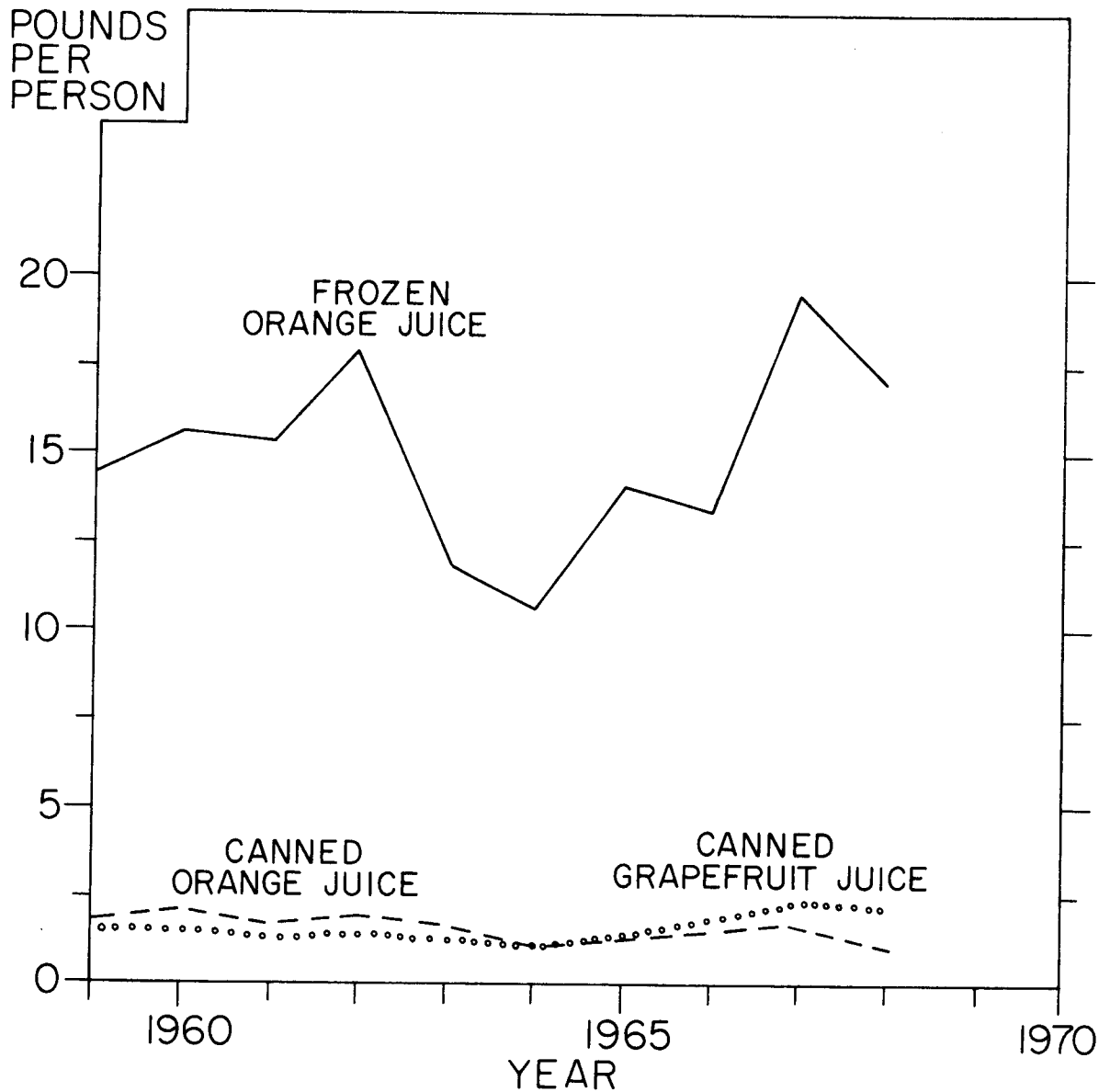


FIGURE 20. PER CAPITA CONSUMPTION OF CANNED ORANGE AND GRAPEFRUIT JUICE, AND FROZEN ORANGE JUICE, UNITED STATES, 1959 THROUGH 1968.

SOURCE: TABLE M-2.



TABLE M-3. ARIZONA CITRUS ACREAGE: TYPE OF CITRUS BY COUNTY, JANUARY 1, 1969.

Type of Citrus	Maricopa County	Yuma County	Other Counties	State Total
(Acres)				
Navel Oranges	3,400	455	275	4,130
Valencia Oranges	4,790	12,900	10	17,700
Sweet Oranges	990	455	135	1,570
White Grapefruit	3,900	1,100	130	5,130
Red Grapefruit	860	600	90	1,550
Lemons	1,595	11,700	5	13,300
Orlando Tangelos	280	1,400	0	1,680
Minneola Tangelos	275	1,900	5	2,180
Kinnow Mandarins	1,430	270	0	1,700
Algerian Tangerines	445	250	5	700
Dancy Tangerines	60	40	0	100
Limes	20	40	0	60
TOTALS	18,045	31,100	655	49,800

Source: (8).

TABLE M-4. ARIZONA CITRUS TREE NUMBERS: TYPE OF CITRUS BY COUNTY, JANUARY 1, 1969.

Type of Citrus	Maricopa County	Yuma County	Other Counties	State Total
(Trees)				
Navel Oranges	378,840	71,520	40,150	490,510
Valencia Oranges	497,530	1,721,480	1,000	2,220,010
Sweet Oranges	98,330	63,160	14,750	176,240
White Grapefruit	356,740	103,640	14,100	474,480
Red Grapefruit	103,890	70,960	9,800	184,650
Lemons	145,200	1,209,100	450	1,354,750
Orlando Tangelos	48,750	232,040	0	280,790
Minneola Tangelos	37,310	259,030	460	296,800
Kinnow Mandarins	183,050	41,300	0	224,350
Algerian Tangerines	50,480	38,540	460	89,480
Dancy Tangerines	8,500	5,970	0	14,470
Limes	2,220	4,440	0	6,660
TOTALS	1,910,840	3,821,180	81,170	5,813,190

Source: (8).

TABLE M-5. ARIZONA CITRUS ACREAGE: TYPE OF CITRUS BY AGE GROUPS, JANUARY 1, 1969.

Type of Citrus	Age Groups						11 and Over
	1-Year	2-Years	3-Years	4-Years	5-Years	6-10 Years	
	(Acres)						
Navel Oranges	230	280	85	120	80	1,530	1,805
Valencia Oranges	80	980	2,560	2,190	2,365	5,750	3,775
Sweet Oranges	120	95	185	115	0	240	815
White Grapefruit	510	130	70	120	200	110	3,990
Red Grapefruit	420	250	190	60	55	420	155
Lemons	1,300	1,100	1,030	1,350	805	2,270	5,445
Orlando Tangelos	20	615	340	160	345	200	0
Minneola Tangelos	55	425	410	415	260	500	115
Kinnow Mandarins	225	340	175	400	90	200	270
Algerian Tangerines	70	90	135	20	30	150	205
Dancy Tangerines	20	10	0	15	0	40	15
Limes	0	0	20	0	20	0	20
State Totals	3,050	4,315	5,200	4,965	4,250	11,410	16,610

Source: (8).

TABLE M-6. ARIZONA CITRUS TREE NUMBERS: TYPE OF CITRUS BY AGE GROUPS, JANUARY 1, 1969.

Type of Citrus	Age Groups						11 and Over
	1-Year	2-Years	3-Years	4-Years (Trees)	5-Years	6-10 Years	
Navel Oranges	31,100	37,800	11,180	15,900	9,680	195,500	189,350
Valencia Oranges	12,700	120,450	335,400	283,000	361,850	748,500	358,110
Sweet Oranges	13,200	14,330	30,400	18,810	0	29,900	69,600
White Grapefruit	58,050	14,300	6,300	11,880	19,840	9,900	354,210
Red Grapefruit	59,530	30,500	25,700	6,600	6,280	42,120	13,920
Lemons	122,620	110,000	123,600	169,750	120,560	208,790	499,430
Orlando Tangelos	3,500	86,600	55,100	32,400	71,450	31,740	0
Minneola Tangelos	6,050	52,380	54,040	63,700	33,060	76,000	11,570
Kinnow Mandarins	32,750	51,500	23,850	50,300	11,250	28,000	26,700
Algerian Tangerines	9,100	12,250	19,200	2,400	4,750	19,420	22,360
Dancy Tangerines	2,500	1,510	0	2,160	0	6,300	2,000
Limes	0	0	2,220	0	2,220	0	2,220
State Totals	351,100	531,620	686,990	656,900	640,940	1,396,170	1,549,470

Source: (8).

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