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DIVISION OF AGRICULTURAL SCIENCES
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WAITE MEMORIAL BOOK COLLECTION DEPT. OF AGR.C. AND APPLIED ECONOMICS

Pacific Coast Canned Fruits F.O.B. Price Relationships 1980–81

Cling Peaches, Pears, Apricots, Freestone Peaches, and Fruit Cocktail

by GEORGE M. KUZNETS

GIANNINI FOUNDATION OF AGRICULTURAL ECONOMICS

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PACIFIC COAST CANNED FRUITS F.O.B. PRICE RELATIONSHIPS, 1980-81 CLING PEACHES, PEARS, APRICOTS, FREESTONE PEACHES, AND FRUIT COCKTAIL

bу

George M. Kuznets $\frac{1}{}$

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Introduction

This report includes complete data on f.o.b. prices and movements of the various canned fruits. It should be noted that the 1980-81 price data incorporated herein reflect industry operations for the 12-month period, June 1, 1980-May 31, 1981; that is, the complete marketing year 1980-81. Where final or complete data are not available, as for some current exports or government purchases, estimates are provided and used in this report. The results and data presented here are issued to provide the industry and governmental and private marketing organizations with materials for use in the discussion and formulation of marketing policies, plans, and programs.

The report first presents summary highlights on the industry average f.o.b. price experience and on the f.o.b. shipments by canners during 1980-81. Then the statistical relationships of the average f.o.b. prices to major market influences for canned cling peaches, pears, apricots, freestone peaches, and fruit cocktail are summarized. Sources of the data are given in tables which incorporate the basic data and the results of the f.o.b. price analyses. Alternative f.o.b. price forecasting equations for canned Bartlett pears are shown in the Appendix.

F.O.B. Prices and Movement, 1980-81

The f.o.b. prices which reflect the average industry experience during the 1980-81 marketing year are summarized as follows:

| Canned fruit | 1980-81 average f.o.b. prices dollars per case; 24 No. 2½ basis |
|---|--|
| California cling peaches (choice, No. $2^{1/2}$) | 13.00 |
| California Bartlett pears (choice, No. 2½) | 15.45 |
| California apricots (choice, No. 2½) | 16.00 |
| California freestone peaches (fancy, No. 2½) | 14.00 |
| California fruit cocktail (choice, No. 2½) | 15.95 |

The estimated movement of canned fruit from canners during 1980-81 is given in detail in the appended tables. But the following table presents the indicated summary results:

| | 1980-81 movement from canners | | | | |
|------------------------------|-------------------------------|-----------------|------------|--|--|
| * | | | Domestic | | |
| Canned fruit | Total | Commercial | commercial | | |
| | thousand | s of cases; No. | 2½ basis | | |
| California cling peaches | 22,816 | 21,544 | 18,665 | | |
| Pacific Coast Bartlett pears | 9,632 | 8,240 | 8,112 | | |
| California apricots | 2,641 | 2,142 | 2,092 | | |
| California freestone peaches | 1,199 | 1,006 | 1,006 | | |
| California fruit cocktail | 12,475 | 12,238 | 9,830 | | |

F.O.B. Price Relationships

In addition to providing the basic marketing information summarized above and in the attached tables, this report presents the results of statistical analyses of the major factors which are related to the industry average f.o.b. prices of canned cling peaches, pears, apricots, freestone peaches, and fruit cocktail. The major price-affecting factors include the commercial movement from canneries, the level of national disposable personal income, and the relative level of prices of canned fruits competing with the respective canned fruits. Those price-influencing factors are shown in tables appended to this report. The important f.o.b. price relationships for each fruit may be summarized as follows:

Canned Cling Peaches

A change of 10 percent in the domestic commercial movement (24 No. $2\frac{1}{2}$ basis) of California canned cling peaches, considered by itself, was on the average accompanied by a change in the opposite direction of about 2 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned cling peaches.

An increase of 10 percent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 1 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned cling peaches.

A change of 10 percent in the weighted average of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 10 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned cling peaches.

Differences between the actual f.o.b. prices of canned cling peaches (choice, No. $2\frac{1}{2}$) and those accounted for by the statistical analysis are given in Table 5 of this report:

Canned Pears

A change of 10 percent in the domestic commercial movement (24 No. $2\frac{1}{2}$ basis) of Pacific Coast canned Bartlett pears, considered by itself, was on the average accompanied by a change in the opposite direction of about 5 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of Pacific Coast canned Bartlett pears.

An increase of 10 percent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 2 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of Pacific Coast canned Bartlett pears.

A change of 10 percent in the weighted average of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 6 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of Pacific Coast canned Bartlett pears.

Differences between the actual f.o.b. prices of Pacific Coast canned pears (choice, No. $2\frac{1}{2}$) and those estimated by the statistical analysis are given in Table 8 of this report.

Canned Apricots

A change of 10 percent in the domestic commercial movement (24 No. 2½ basis) of California canned apricots, considered by

itself, was on the average accompanied by a change in the opposite direction of about 3 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned apricots.

A change of 10 percent in the index of disposable income, considered by itself, was on the average accompanied by a change in the same direction of about 1 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned apricots.

A change of 10 percent in the weighted average of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 8 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of canned apricots.

Differences between the actual f.o.b. prices of canned apricots (choice, No. $2\frac{1}{2}$) and those estimated by the statistical analysis are given in Table 11 of this report.

Canned Freestone Peaches

A change of 10 percent in the domestic commercial movement (24 No. $2\frac{1}{2}$ basis) of Pacific Coast canned freestone peaches, considered by itself, was on the average accompanied by a change in the opposite direction of about 2 percent in the f.o.b. price (fancy, No. $2\frac{1}{2}$) of Pacific Coast canned freestone peaches.

An increase of 10 percent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 7 percent in the f.o.b. price (fancy, No. $2\frac{1}{2}$) of Pacific Coast canned freestone peaches.

A change of 10 percent in the adjusted index of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 7 percent in the f.o.b. price (fancy, No. $2\frac{1}{2}$) of Pacific Coast canned freestone peaches.

Differences between the actual f.o.b. prices of Pacific Coast canned freestone peaches (fancy, No. $2\frac{1}{2}$) and those accounted for by the statistical analysis are given in Table 14 of this report.

Canned Fruit Cocktail

A change of 10 percent in the domestic commercial movement (24 No. $2\frac{1}{2}$ basis) of California canned fruit cocktail, considered by itself, was on the average accompanied by a change in the opposite direction of about 2 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of California canned fruit cocktail.

An increase of 10 percent in the index of disposable income, considered by itself, was on the average accompanied by an increase of about 1.5 percent in the f.o.b. price (choice, No. $2\frac{1}{2}$) of California canned fruit cocktail.

A change of 10 percent in the weighted average of prices of competing canned fruits, considered by itself, was on the average accompanied by a change in the same direction of about 7 percent in the f.o.b. price (choice, No. 2½) of California canned fruit cocktail. Differences between the actual f.o.b. prices of California canned fruit cocktail (choice No. 2½) and those estimated by the statistical analysis are given in Table 18 of this report.

Data

Although the sources of the data on which this report is based are indicated in the footnotes of the various tables, the following supplementary explanations may be noted for the 1980-81 prices, movement data, and other economic information used in the analyses.

The f.o.b. prices of cling peaches, pears, freestone peaches, fruit cocktail, and apricots are industry average prices reflecting cannery operations. The 1980-81 pear, freestone peach, and apricot prices were collected through the Canners League of California; the price data for cling peaches and fruit cocktail were collected through the Cling Peach Advisory Board.

The data on canner stocks and movement are based on reports issued by the following agencies: for cling peaches and fruit cocktail, the Cling Peach Advisory Board; for apricots, California pears, and California freestone peaches, the Canners League of California; and for Northwest pears, the Northwest Food Processors Association.

The index of United States disposable personal income is based on reports issued by the U. S. Department of Commerce. Exports are based on U. S. Department of Commerce reports, and United States government purchases are based on releases issued by the U. S. Departments of Agriculture and Defense.

TABLE 1

F.O.B. Pricesal of Canned Fruits from 1947-48

| year, June cling peaches (choice, (| Marketing | California | Pacific Coast | Υ | Pacific Coast | California |
|--|-----------|------------|------------------|------------------|---------------------|------------|
| June through (choice, May) peaches (choice, No. 2½) peaches (choice, Choice, No. 2½) peaches (choice, Choice, Choice, No. 2½) peaches (choice, Choice, No. 2½) cocktail (choice, No. 2½) No. 2½ No. 2½ No. 2½ No. 2½ No. 2½ No. 2½ | | cling | Bartlett | California | | |
| through (choice, choice, c | | | | | | |
| No. 2\(2\(\) No. 2\(\) 1 | | | | | | |
| 1 2 3 4 5 | | | | | | |
| 1947-48 | riay | | 4/ | | | |
| 1947-48 4.78 7.10 6.00 6.50 6.90 1948-49 5.10 8.10 5.25 7.00 6.65 1949-50 4.07 5.30 5.00 5.90 5.70 1950-51 5.17 7.80 5.75 7.50 6.65 1951-52 5.53 7.86 5.94 7.50 6.68 1952-53 5.32 6.49 5.68 7.00 6.41 1953-54 5.12 6.91 5.25 6.70 6.67 1954-55 5.17 6.92 5.66 6.45 6.57 1955-56 5.70 6.72 5.10 6.78 6.56 1955-57 5.35 6.89 5.60 6.29 6.22 1955-59 5.10 6.25 5.48 6.10 6.28 1955-59 5.36 6.89 5.60 6.29 6.22 1957-59 5.16 6.83 6.75 6.16 6.83 1959-60 | | 1 | | | 4 | 5 |
| 1948-49 | | | | dollars per case | | |
| 1948-49 | 1 | ĺ | | | | |
| 1948-49 | | l | | | | |
| 1949-50 4.07 5.30 5.00 5.90 5.70 1950-51 5.17 7.80 5.75 7.50 6.65 1951-52 5.53 7.86 5.94 7.50 6.68 1952-53 5.32 6.49 5.68 7.00 6.41 1953-54 5.12 6.91 5.25 6.70 6.67 1954-55 5.17 6.92 5.66 6.45 6.57 1955-56 5.70 6.72 5.10 6.78 6.56 1956-57 5.35 6.89 5.60 6.29 6.22 1957-58 5.10 6.25 5.48 6.10 6.28 1958-59 5.36 6.88 6.75 6.16 6.83 1959-60 4.89 6.15 5.38 5.79 6.27 1960-61 4.86 6.50 5.24 5.52 6.17 1961-62 4.70 6.53 4.95 5.37 5.75 1962-63 | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| 1951-52 | 1949-50 | 4.07 | 5.30 | 5.00 | 5.90 | 5.70 |
| 1951-52 | | | | | i i | |
| 1951-52 | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1950-51 | 5.17 | 7.80 | 5.75 | 7.50 | 6.65 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1951-52 | 5.53 | 7.86 | 5.94 | 7.50 | 6.68 |
| 1953-54 5.12 6.91 5.25 6.70 6.67 1954-55 5.17 6.92 5.66 6.45 6.57 1955-56 5.70 6.72 5.10 6.78 6.56 1956-57 5.35 6.89 5.60 6.29 6.22 1957-58 5.10 6.25 5.48 6.10 6.28 1958-59 5.36 6.88 6.75 6.16 6.83 1959-60 4.89 6.15 5.38 5.79 6.27 1960-61 4.86 6.50 5.24 5.52 6.17 1961-62 4.70 6.53 4.95 5.37 5.75 1962-63 4.50 5.64 5.65 5.20 5.40 1963-64 4.87 7.60 5.30 6.00 6.50 1965-66 4.65 7.55 4.90 5.80 6.75 1966-67 4.63 6.14 5.15 6.00 6.00 1976-78 | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1934-33 | 3.17 | 0.52 | 3.00 | 0.43 | 0.57 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | 1 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1955_56 | 5.70 | 6.72 | 5 10 | 6.78 | 6 56 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| 1958-59 5.36 6.88 6.75 6.16 6.83 1959-60 4.89 6.15 5.38 5.79 6.27 1960-61 4.86 6.50 5.24 5.52 6.17 1961-62 4.70 6.53 4.95 5.37 5.75 1962-63 4.50 5.64 5.65 5.20 5.40 1963-64 4.87 7.60 5.30 6.00 6.50 1964-65 4.51 6.29 5.26 5.68 5.78 1965-66 4.65 7.55 4.90 5.80 6.75 1966-67 4.63 6.14 5.15 6.00 6.00 1967-68 5.50 9.00 6.55 7.15 7.20 1968-69 5.30 7.25 6.70 7.10 6.35 1971-72 5.90 7.80b// 6.15 7.50b// 7.70 1972-73 6.50 8.35b// 7.90 8.20b// 8.20 1973-74 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1959-60 | 4.89 | 6.15 | 5.38 | 5.79 | 6.2/ |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 1 | ł | 1 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1000 01 | 4.00 | 6.50 | 5.04 | 5 50 | 6 17 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | 5.52 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1963-64 | 4.87 | | | | 6.50 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1964-65 | 4.51 | 6.29 | 5.26 | 5.68 | 5.78 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | 1 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | 1 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1965-66 | 4.65 | 7.55 | 4.90 | 5.80 | 6.75 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1966-67 | 4.63 | 6.14 | 5.15 | 6.00 | 6.00 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1967-68 | 5.50 | 9.00 | 6.55 | 7.15 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1,00,-,0 | 1 | 1 | 1 | 0.20 | "" |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1970-71 | 5.60 | 8.05b/ | 6.00 | 7.10b/ | 7.30 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 7,800/ | | 7.50 b / | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 8 350/ | | 8 200/ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 9 30 1 | | 9 00 h | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | 11 700/ | | 13 000/ | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 19/4-/5 | 9.90 | 11./0 <u>~</u> / | 13.15 | 13.000 | 11.13 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | ļ i |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1075 76 | 0 25 | 10.30b/ | 10.95 | 11 35b/ | 10 00 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 10.30% | | 11 555/ | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | 10.152/ | | 12 000/ | |
| 1979-80 12.10 14.40 \underline{b} / 15.70 14.10 \underline{b} / 14.60 | | | 10.555/ | | 12.005/ | |
| | | | 14.250/ | | | |
| 1980-81 13.00 15.45 <u>b</u> / 16.00 14.00 <u>b</u> / 15.95 | 19/9-80 | 12.10 | 14.40 <u>0</u> / | 15./0 | 14.100/ | 14.60 |
| 1980-81 13.00 15.45-0/ 16.00 14.00-0/ 15.95 | 1000 01 | 12.00 | 15 ACh/ | 16.00 | 14 ooh/ | 15.05 |
| | 1980-81 | 13.00 | 15.450/ | 16.00 | 14.000/ | 15.95 |
| | | | [| | 1 | |
| | L | L | L | L | | L |

a/ Based on weighted average canners' f.o.b. sales prices (for cling peaches, apricots, pears, freestone peaches, and fruit cocktail) determined from canners' reports on their billings and invoices of sales f.o.b. cannery or dock (including brokerage, cash discount, swell, label, and case allowances but excluding any special or trade discounts and any prepaid charges included in delivery prices such as freight and marine insurance). Prices adjusted to an industrywide common or nondifferentiated basis by modification for recognized price premium conventional for certain brands.

Sources: Based on data compiled through the Cling Peach Advisory Board, Canners League of California, and Northwest Canners and Freezers Association.

b/ California only.

 $\begin{tabular}{ll} TABLE 2 \\ Canners' Commercial Domestic Movement of Canned Fruits from 1947-48 \\ \end{tabular}$

| Marketing | California | Pacific Coast | | Pacific Coast | California |
|---------------------------|------------------|-------------------|------------------------|--------------------------------------|-------------------|
| year, June through May | cling peaches | Bartlett pears | California apricots | freestone peaches | fruit cocktail |
| through may | peaches 1 | pears 2 | 3 | 4 | 5 |
| | • | | of cases; 24 No. 2 | | , ` |
| | | | | 1 | |
| 1947–48 | 13,843 | 4,866 | 2,415 | 2,155 | 8,836 |
| 1947–48 | 12,382 | 3,660 | 3,528 | 2,322 | 6,791 |
| 1949-50 | 15,615 | 5,613 | 3,072 | 2,322 2,178 | 6,977 |
| | | | | | |
| 1950-51 | 14,287 | 4,815 | 3,565 | 2,135 | 7,364 |
| 1951–52 | 13,648 | 4,348 | 3,410 | 2,507 | 5,604 |
| 1952-53 | 14,351 | 5,700 | 3,148 | 3,075 | 7,452 |
| 1953-54 | 14,706 | 5,401 | 3,934 | 3,156 | 6,945 |
| 1954–55 | 14,086 | 6,272 | 3,177 | 3,841 | 8,037 |
| | | | | | |
| 1955-56 | 15,023 | 6,763 | 4,494 | 3,859 | 9,145 |
| 1956-57 1957-58 | 15,008 16,925 | 6,789 7,746 | 3,852 3,871 | 4,688 4,753 | 8,844 8,845 |
| 1957-56 | 13,886 | 7,746 | 2,052 | 5,161 | 8,866 |
| 1959-60 | 17,384 | 8,009 | 4,026 | 5,449 | 10,275 |
| • | | | | | |
| 1960-61 | 15,851 | 7,016 | 4,073 | 5,755 | 9.725 |
| 1961-62 | 16,826 | 7,220 | 4,448 | 5,559 | 10,365 |
| 1962-63 | 18,678 | 8,644 | 3,747 | 5,502 | 11,460 |
| 1963-64 | 19,803 | 6,001 | 3,914 | 5,092 | 9,608 |
| 1964–65 | 22,125 | 8,240 | 3,823 | 4,841 | 12,093 |
| | | | | | ~ |
| 1965–66 | 20,488 | 5,995 | 4,748 | 4,600 | 10,192 |
| 1966-67 1967-68 | 22,785 20,563 | 8,916 5,820 | 4,425 3,784 | 4,256 3,743 | 12,882 10,812 |
| 1968-69 | 23,076 | 7,860 | 3,433 | 3,659 | 12,837 |
| 1969–70 | 21,550 | 8,978 | 3,510 | 4,109 | 12,917 |
| | | | | | |
| 1970–71 | 20,432 | 7,374 | 3,503 | 2,601 <u>a</u> / | 10,579 |
| 1971–72 | 20,392 | 8,775 | 3,460 | 2,735a/ | 10,441 |
| 1972–73 | 19,723 | 9,616 | 3,103 | 2,474 <u>a/</u> | 11,267 |
| 1973-74 | 18,867 | 9,738 | 3,757 | 2,299 <u>a</u> / | 11,819 |
| 1974–75 | 23,086 | 8,388 | 2,174 | 2,062 <u>a</u> / | 11,187 |
| | | | | , | |
| 1975-76 | 20,627 | 9,102 | 2,915 | 1,961 <u>a</u> / | 11,530 |
| 1976-77 1977-78 | 19,691 21,601 | 9,865 9,312 | 2,731 2,473 | 1,732 <u>a</u> / 1,445 <u>a</u> / | 11,261 11,117 |
| 1978-79 | 18,065 | 8,421 | 2,473 | 1,481 <u>a</u> / | 10,416 |
| 1979-80 | 18,936 | 8,400 | 2,323 | 1,218 <u>a</u> / | 10,182 |
| 1980-81b/ | 10 665 | 0 112 | 2,092 | 1,006a/ | 9,830 |
| 1300-0101 | 18,665 | 8,112 | 2,092 | 1,0004/ | 9,830 |
| | 1 | | | | |

<u>a</u>/ California only.

Col. 1: Table 3, column 10.

Col. 2: Table 6, column 8.

Col. 3: Table 9, column 8.

Col. 4: Table 12, column 9.

Col. 5: Table 16, column 9.

b/ Preliminary; subject to revision.

TABLE 3 California Canned Cling Peaches, Canners' Pack, Carry-Over, Shipments, and Exports from 1950-51

| Marketing year, June through May | Pack 1 | Canners' stocks on hand at beginning of year 2 | Total supply 3 | Canners' stocks on hand at end of year 4 | Total f.o.b. movement from canners' hands | USDA 6 | S. government t f.o.b. purch Quarter- master | | U.S. exports 9 | F.o.b. commercial domestic movement 10 |
|---|--|---|--|---|--|---------------------------------------|---|--|---|--|
| | | 0.050 | 16 475 | | nousands of case | es; 24 No. 2½ | | 1 172 | 484 | 14 207 |
| 1950-51 1951-52 1952-53 1953-54 1954-55 | 14,417 19,145 14,964 17,163 13,818 | 2,058 531 3,418 2,328 2,708 | 16,475 19,676 18,382 19,490 16,526 | 531 3,418 2,328 2,708 558 | 15,944 16,258 16,054 16,782 15,968 | 446 206 763 843 | 1,173 1,734 983 510 69 | 1,173 2,180 1,189 1,273 912 | 484 430 514 803 970 | 14,287 13,648 14,351 14,706 14,086 |
| 1955-56 1956-57 1957-58 1958-59 1959-60 | 17,923 21,322 18,484 17,545 21,485 | 558 1,557 4,579 2,482 3,039 | 18,481 22,879 23,063 20,027 24,524 | 1,556 4,579 2,482 3,039 2,650 | 16,925 18,300 20,581 16,988 21,874 | a/ 599 567 591 572 | 495 372 468 272 412 | 495 971 1,035 863 984 | 1,407 2,321 2,621 2,239 3,506 | 15,023 15,008 16,925 13,886 17,384 |
| 1960-61 1961-62 1962-63 1963-64 1964-65 | 21,587 22,940 25,574 25,089 30,640 | 2,650 3,443 3,382 3,191 2,558 | 24,237 26,383 28,956 28,280 33,198 | 3,443 3,382 3,191 2,558 5,191 | 20,793 23,001 25,765 25,722 28,007 | 539 563 454 531 475 | 270 296 190 666 232 | 809 859 644 1,197 707 | 4,133 5,316 6,443 4,722 5,175 | 15,851 16,826 18,678 19,803 22,125 |
| 1965-66 1966-67 1967-68 1968-69 1969-70 | 23,233 30,348 22,566 29,867 31,479 | 5,191 2,820 4,116 3,051 5,636 | 28,424 33,168 26,682 32,918 37,115 | 2,820 4,116 3,051 5,636 8,328 | 25,604 29,052 23,631 27,282 28,787 | 540 573 575 1,661 | 519 660 442 1,136 580 | 519 1,200 1,015 1,711 2,241 | 4,597 5,067 2,053 2,495 4,996 | 20,488 22,785 20,563 23,076 21,550 |
| 1970-71 1971-72 1972-73 1973-74 1974-75 | 24,878 21,839 21,233 21,615 28,983 | 7,458 <u>b</u> / 6,763 3,890 1,591 1,387 | 32,336 28,602 25,123 23,206 30,370 | 6,763 3,890 1,591 1,387 4,361 | 25,573 24,712 23,532 21,819 26,009 | 1,009 1,054 848 36 656 | 434 621 314 97 120 | 1,443 1,675 1,162 133 776 | 3,698 2,645 2,647 2,819 2,147 | 20,432 20,392 19,723 18,867 23,086 |
| 1975-76 1976-77 1977-78 1978-79 1979-80 | 25,691 22,783 27,568 19,874 24,053 | 4,361 6,258 5,281 6,146 3,330 | 30,052 29,041 32,849 26,020 27,383 | 6,258 5,281 6,146 3,330 4,465 | 23,794 23,760 26,703 22,690 22,918 | 791 1,456 1,352 1,325 736 | 299 71c/ 193 <u>d</u> / 94 238 | 1,090 1,527 1,545 1,433 <u>e</u> / 974 | 2,077 2,542 3,557 3,192 3,008 | 20,627 19,691 21,601 18,065 18,936 |
| 1980–81 | 24,990 | 4,465 | 29,455 | 6,639 | 22,816 | 1,041 | 231 | 1,272 | 2,879 | 18,665 |

a/ Centralized f.o.b. purchases of clings by School Lunch unreported for 1955-56, although School Lunch issued clings presumably acquired at local points.

Sources: Cling Peach Advisory Board; Canners League of California; U. S. Departments of Agriculture, Commerce, and Defense; and trade sources.

b/ Excludes cyclamate packs.
c/ January-December, 1976.
d/ January-December, 1977.
e/ Includes purchases by Veterans Administration.
f/ Preliminary; subject to revision.

TABLE 4

F.O.B. Prices of California Canned Cling Peaches and Related Economic Variables from 1950-51

| Marketing year, June | F.o.b prices of California canned cling peaches | Moveme | nt of California | canned | U. S. disposable | Weighted average prices |
|----------------------------|--|------------|------------------|------------------------|-----------------------------|----------------------------|
| through May | (choice, No. 2½) | Total | Commercial | Domestic commercial | personal income | of competing canned fruits |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| | dollars per case | millions o | f cases; 24 No. | 2½ basis | 1947-48 to 1949-50 = 100 | dollars per case |
| 1950-51 | 5.17 | 15.944 | 14.771 | 14.287 | 115.6 | 6.88 |
| 1951-52 | 5.53 | 16.258 | 14.078 | 13.648 | 122.7 | 6.97 |
| 1952-53 | 5.32 | 16.054 | 14.865 | 14.351 | 131.3 | 6.41 |
| 1953-54 | 5.12 | 16.782 | 15.509 | 14.706 | 135.1 | 6.45 |
| 1954-55 | 5.17 | 15.968 | 15.056 | 14.086 | 140.5 | 6.52 |
| 1955–56 | 5.70 | 16.925 | 16.430 | 15.022 | 151.2 | 6.37 |
| 1956–57 | 5.35 | 18.300 | 17.329 | 15.008 | 160.4 | 6.32 |
| 1957–58 | 5.10 | 20.581 | 19.546 | 16.925 | 166.3 | 6.11 |
| 1958–59 | 5.36 | 16.988 | 16.125 | 13.886 | 175.3 | 6.69 |
| 1959–60 | 4.89 | 21.874 | 20.890 | 17.384 | 183.6 | 6.01 |
| 1960-61 | 4.86 | 20.793 | 19.984 | 15.851 | 189.3 | 5.97 |
| 1961-62 | 4.70 | 23.001 | 22.142 | 16.826 | 200.3 | 5.75 |
| 1962-63 | 4.50 | 25.765 | 25.121 | 18.678 | 209.7 | 5.47 |
| 1963-64 | 4.87 | 25.722 | 24.525 | 19.803 | 224.0 | 6.47 |
| 1964-65 | 4.51 | 28.007 | 27.300 | 22.125 | 241.9 | 5.84 |
| 1965-66 | 4.65 | 25.604 | 25.085 | 20.488 | 263.7 | 6.42 |
| 1966-67 | 4.63 | 29.052 | 27.852 | 22.785 | 282.1 | 5.92 |
| 1967-68 | 5.50 | 23.631 | 22.616 | 20.563 | 302.8 | 7.52 |
| 1968-69 | 5.30 | 27.282 | 25.571 | 23.076 | 324.2 | 6.75 |
| 1969-70 | 5.05 | 28.787 | 26.546 | 21.550 | 352.6 | 6.22 |
| 1970-71 | 5.60 | 25.573 | 24.130 | 20.432 | 382.6 | 7.32 |
| 1971-72 | 5.90 | 24.712 | 23.037 | 20.392 | 410.3 | 7.50 |
| 1972-73 | 6.50 | 23.532 | 22.370 | 19.723 | 454.7 | 8.22 |
| 1973-74 | 7.75 | 21.819 | 21.686 | 18.867 | 504.3 | 9.27 |
| 1974-75 | 9.90 | 26.009 | 25.233 | 23.086 | 552.6 | 11.69 |
| 1975-76 | 9.25 | 23.794 | 22.704 | 20.627 | 607.5 | 10.73 |
| 1976-77 | 9.60 | 23.760 | 22.233 | 19.691 | 662.0 | 10.87 |
| 1977-78 | 9.55 | 26.703 | 25.158 | 21.601 | 737.5 | 11.28 |
| 1978-79 | 11.15 | 22.690 | 21.257 | 18.065 | 828.1 | 14.06 |
| 1979-80 | 12.10 | 22.918 | 21.944 | 18.936 | 925.5 | 14.61 |
| 1980-81 ^a / | 13.00 | 22.816 | 21.544 | 18.665 | 1,025.5 | 15.67 |

 $[\]underline{a}$ / Preliminary; subject to revision.

- Col. 1: Table 1, column 1.
- Col. 2: Table 3, column 5.
- Col. 3: Table 3, column 5 minus column 8.
- Col. 4: Table 3, column 10.
- Col. 5: Table 15, column 4.
- Col. 6: F.o.b. prices (other than clings) in Table 1 weighted by corresponding domestic commercial shipments in Table 2.

 ${\it TABLE~5}$ Actual and Estimated F.O.B. Prices of California Canned Cling Peaches from 1950-51

| Marketing | | | Equation (3) | |
|------------------------|---------------|------------------|--------------------------|---------------|
| year, June | Actual | Estimated | Differences: column 1 | Column 3 |
| through | f.o.b. | f.o.b. | minus | as percent |
| May | price | price | column 2 | of column 1 |
| | 1 | dollars per case | 3 | percent |
| 1950–51 | 5.17 | 5.49 | -0.32 | -6.2 |
| 1951-52 | 5.53 | 5.64 | -0.11 | -1.9 |
| 1952-53 | 5.32 | 5.17 | 0.15 | 2.9 |
| 1953-54 | 5.12 | 5.18 | -0.06 | -1.2 |
| 1954–55 | 5.17 | 5.29 | -0.13 | -2.5 |
| 1955–56 | 5.70 | 5.14 | 0.56 | 9.8 |
| 1956–57 | 5.35 | 5.12 | 0.23 | 4.3 |
| 1957–58 | 5.10 | 4.86 | 0.24 | 4.8 |
| 1958-59 | 5.36 | 5.52 | -0.16 | -3.1 |
| 1959-60 | 4.89 | 4.78 | 0.11 | 2.2 |
| 1000.01 | 4.05 | 4.05 | 0.01 | |
| 1960–61 | 4.86 | 4.85 | 0.01 | 0.2 |
| 1961–62 | 4.70 | 4.64 | 0.06 | 1.3 |
| 1962-63 | 4.50 | 4.35 | 0.15 | 3.4 |
| 1963–64 | 4.87 | 5.08 | -0.21 | -4.3 |
| 1964–65 | 4.51 | 4.53 | -0.02 | -0.3 |
| 1965-66 | 4.65 | 5.06 | -0.41 | -8.8 |
| 1966–67 | 4.63 | 4.61 | 0.02 | 0.4 |
| 1967-68 | 5.50 | 5.95 | -0.45 | -8.2 |
| 1968-69 | 5.30 | 5.26 | 0.04 | 0.7 |
| 1969–70 | 5.05 | 4.95 | 0.10 | 1.9 |
| 1970–71 | 5 . 60 | 5.90 | -0.30 | -5.3 |
| 1971–72 | 5.90 | 6.06 | -0.16 | -2.8 |
| 1972-73 | 6.50 | 6.71 | -0.21 | -3.3 |
| 1973-74 | 7 . 75 | 7.63 | 0.12 | 1.5 |
| 1974–75 | 9.90 | 9.25 | 0.65 | 6.6 |
| 1975–76 | 9.25 | 8.75 | 0.50 | 5.4 |
| 1975–76 | 9.60 | 8.98 | 0.62 | 6.4 |
| 1 | | i | 0.33 | i |
| 1977–78 | 9.55 | 9.22 | ľ | 3.5 |
| 1978-79 | 11.15 | 11.86 | -0.71 | -6.4 |
| 1979-80 | 12.10 | 12.29 | -0.19 | -1.6 |
| 1980-81 a / | 13.00 | 13.27 | -0.27 | -2.1 |
| | | | | |

 $[\]underline{a}$ / Preliminary; subject to revision.

Col. 1: Table 1, column 1.

Col. 2: Computed using data in Table 4 applied to equation (3), page 12.

Canned Cling Peaches Price Equations

The equations shown below, based on the 31-year period 1950-51 through 1980-81, were estimated using ordinary least squares. Standard errors are set out in parentheses; R is the multiple correlation coefficient and d is the Durbin-Watson statistic.

(1)
$$(1n^{2}) = 0.0900 - 0.2036 (1n^{2}) + 0.0924 (1n^{2}) + 0.9023 (1n^{2}) + 0.9023 (1n^{2}) + 0.9023 (1n^{2}) + 0.9123 (0.115)$$

$$R^{2} = 0.980 \qquad d = 1.52$$

(2)
$$(1n^{2}) = -0.0032 - 0.1640 (1n^{2}) + 0.0769 (1n^{2}) (0.216) (0.113) (0.068)$$

+ 0.9266 (1n X_{5}) $R^{2} = 0.980$ $d = 1.41$

(3)
$$(1n^{2}) = 0.0340 - 0.1840 (1n^{2}) + 0.0634 (1n^{2}) + 0.9631 (1n^{2}) + 0.980$$
 d = 1.53

- Y: F.o.b. price of California canned cling peaches (choice, No. 2½, dollars per case), Table 4, column 1.
- X_1 : Total movement of California canned cling peaches (million cases, 24 No. $2\frac{1}{2}$ basis), Table 4, column 2.
- X2: Commercial movement of California canned cling peaches (million cases, 24 No. 2½ basis), Table 4, column 3.
- X3: Domestic commercial movement of California canned cling peaches (million cases, 24 No. 2½ basis), Table 4, column 4.
- X4: U. S. disposable personal income (1947-48 to 1949-50 = 100), Table 4, column 5.
- X₅: Weighted average price of competing canned fruits (dollars per case), Table 4, column 6.

TABLE 6

Pacific Coast Canned Bartlett Pears, Canners' Pack, Carry-Over, Shipments, and Exports from 1947-48

| Marketing year, June through May | Pack | Canners' stocks on hand at beginning of year | Total supply 3 | Canners' stocks on hand at end of year | Total f.o.b. movement from canners' hands | U.S. govern- ment direct f.o.b. purchases | U. S. exports | F.o.b. commer- cial domestic movement |
|--|--------|--|----------------------|--|--|--|------------------|---------------------------------------|
| | 1 | | | ds of cases | | | ! | 0 |
| 1947-48 | 5,622 | 200 | 5,822 | 726 | 5,096 | | 230 | 4,866 |
| 1948-49 | 3,831 | 726 | 4,557 | 761 | 3,796 | | 136 | 3,660 |
| 1949-50 | 5,473 | 761 | 6,234 | 448 | 5,786 | | 159 | 5,627 |
| 1950-51 | 6,048 | 448 | 6,496 | 566 | 5,930 | 900 | 215 | 4,815 |
| 1951-52 | 6,215 | 566 | 6,781 | 1,575 | 5,206 | 763 | 95 | 4,348 |
| 1952-53 | 6,003 | 1,575 | 7,578 | 1,361 | 6,217 | 386 | 131 | 5,700 |
| 1953-54 | 5,185 | 1,361 | 6,546 | 747 | 5,799 | 282 | 116 | 5,401 |
| 1954-55 | 7,475 | 747 | 8,222 | 1,545 | 6,677 | 145 | 260 | 6,272 |
| 1955-56 | 7,849 | 1,545 | 9,394 | 1,609 | 7,785 | 276 | 746 | 6,763 |
| 1956-57 | 8,437 | 1,609 | 10,046 | 2,587 | 7,459 | 382 | 288 | 6,789 |
| 1957-58 | 8,157 | 2,587 | 10,745 | 2,411 | 8,334 | 272 | 316 | 7,746 |
| 1958-59 | 7,271 | 2,411 | 9,682 | 1,932 | 7,750 | 441 | 232 | 7,077 |
| 1959-60 | 8,853 | 1,932 | 10,785 | 2,018 | 8,767 | 478 | 280 | 8,009 |
| 1960-61 | 7,877 | 2,018 | 9,895 | 2,336 | 7,559 | 331 | 212 | 7,016 |
| 1961-62 | 8,433 | 2,336 | 10,769 | 2,909 | 7,860 | 401 | 239 | 7,220 |
| 1962-63 | 8,779 | 2,909 | 11,688 | 2,150 | 9,538 | 647 | 247 | 8,644 |
| 1963-64 | 5,025 | 2,150 | 7,175 | 532 | 6,643 | 500 | 142 | 6,001 |
| 1964-65 | 10,670 | 532 | 11,202 | 2,591 | 8,611 | 212 | 159 | 8,240 |
| 1965-66 | 5,817 | 2,591 | 8,408 | 1,712 | 6,696 | 568 | 133 | 5,995 |
| 1966-67 | 10,613 | 1,712 | 12,325 | 2,278 | 10,047 | 967 | 164 | 8,916 |
| 1967-68 | 5,433 | 2,278 | 7,711 | 1,308 | 6,403 | 507 | 76 | 5,820 |
| 1968-69 | 10,143 | 1,308 | 11,451 | 2,761 | 8,690 | 728 | 102 | 7,860 |
| 1969-70 | 10,212 | 2,761 | 12,973 | 3,317 | 9,656 | 590 | 88 | 8,978 |
| 1970-71 | 8,386 | 2,851 ^a / | 11,237 | 3,288 | 7,949 | 300 | 275 | 7,374 |
| 1971-72 | 10,309 | 3,288 | 13,597 | 3,688 | 9,909 | 915 | 219 | 8,775 |
| 1972-73 | 9,063 | 3,688 | 12,751 | 2,431 | 10,320 | 460 | 244 | 9,616 |
| 1973-74 | 9,841 | 2,431 | 12,272 | 1,773 | 10,499 | 499 | 262 | 9,738 |
| 1974-75 | 10,692 | 1,773 | 12,465 | 3,714 | 8,751 | 229 | 134 | 8,388 |
| 1975-76 | 9,776 | 3,714 | 13,490 | 3,361 | 10,129 | 852 | 175 | 9,102 |
| 1976-77 | 11,518 | 3,361 | 14,879 | 3,504 | 11,375 | 1,349 | 161 | 9,865 |
| 1977-78 | 9,614 | 3,504 | 13,118 | 2,684 | 10,434 | 905 | 217 | 9,312 |
| 1978-79 | 9,026 | 2,684 | 11,710 | 2,616 | 9,094 | 544 | 129 | 8,421 |
| 1979-80 | 10,568 | 2,616 | 13,184 | 3,556 | 9,628 | 1,067 | 161 | 8,400 |
| 1980–81 <u>b</u> / | 10,928 | 3,556 | 14,484 | 4,852 | 9,632 | 1,392 | 128 | 8,112 |

a/ Excludes cyclamate packs.

 $[\]underline{\mathbf{b}}$ / Preliminary; subject to revision.

Sources: Canners League of California; Northwest Food Processors Association; and U. S. Departments of Agriculture, Commerce, and Defense.

TABLE 7

F.O.B. Prices of Pacific Coast Canned Bartlett Pears and Related Economic Variables from 1950-51

| Marketing year, June | F.o.b prices of Pacific Coast canned Bartlett pears | | ent of Pacific C | | U.S. disposable | Weighted average prices |
|----------------------------|--|------------|----------------------|------------------------|-----------------------------|----------------------------|
| through May | (choice, No. 2) | Total | Commercial | Domestic commercial | personal income | of competing canned fruits |
| | dollars per case | millions o | 3 f cases; 24 No. | 4 2½ basis | 1947-48 to 1949-50 = 100 | dollars per case |
| 1950-51 | 7.80 | 5.930 | 5.030 | 4.815 | 115.6 | 5.83 |
| 1951-52 | 7.86 | 5.206 | 4.443 | 4.348 | 122.7 | 6.04 |
| 1952-53 | 6.49 | 6.217 | 5.831 | 5.700 | 131.3 | 5.83 |
| 1953-54 | 6.91 | 5.799 | 5.517 | 5.401 | 135.1 | 5.69 |
| 1954-55 | 6.92 | 6.677 | 6.532 | 6.272 | 140.5 | 5.78 |
| 1955-56 | 6.72 | 7.785 | 7.509 | 6.763 | 151.2 | 5.99 |
| 1956-57 | 6.89 | 7.459 | 7.077 | 6.789 | 160.4 | 5.75 |
| 1957-58 | 6.25 | 8.334 | 8.062 | 7.746 | 166.3 | 5.58 |
| 1958-59 | 6.88 | 7.750 | 7.309 | 7.077 | 175.3 | 6.03 |
| 1959-60 | 6.15 | 8.767 | 8.289 | 8.009 | 183.6 | 5.46 |
| 1960-61 | 6.50 | 7.559 | 7.228 | 7.016 | 189.3 | 5.37 |
| 1961-62 | 6.53 | 7.860 | 7.459 | 7.220 | 200.3 | -5.12 |
| 1962-63 | 5.64 | 9.538 | 8.891 | 8.644 | 209.7 | 4.97 |
| 1963-64 | 7.60 | 6.643 | 6.143 | 6.001 | 224.0 | 5.47 |
| 1964-65 | 6.29 | 8.611 | 8.399 | 8.240 | 241.9 | 5.07 |
| 1965-66 | 7.55 | 6.696 | 6.128 | 5.995 | 263.7 | 5.35 |
| 1966-67 | 6.14 | 10.047 | 9.080 | 8.916 | 282.1 | 5.21 |
| 1967-68 | 9.00 | 6.403 | 5.896 | 5.821 | 302.8 | 6.23 |
| 1968-69 | 7.25 | 8.690 | 7.962 | 7.860 | 324.2 | 5.88 |
| 1969-70 | 6.50 | 9.656 | 9.066 | 8.978 | 352.6 | 5.56 |
| 1970-71 | 8.05 | 7.949 | 7.649 | 7.374 | 382.6 | 6.23 |
| 1971-72 | 7.80 | 9.909 | 8.994 | 8.775 | 410.3 | 6.55 |
| 1972-73 | 8.35 | 10.320 | 9.860 | 9.641 | 454.7 | 7.26 |
| 1973-74 | 9.30 | 10.499 | 10.000 | 9.738 | 504.3 | 8.48 |
| 1974-75 | 11.70 | 8.751 | 8.522 | 8.388 | 552.6 | 10.61 |
| 1975–76 | 10.30 | 10.129 | 9.277 | 9.102 | 607.5 | 10.01 |
| 1976–77 | 10.15 | 11.375 | 10.026 | 9.865 | 662.0 | 10.37 |
| 1977–78 | 10.55 | 10.434 | 9.529 | 9.312 | 737.5 | 10.44 |
| 1978–79 | 14.25 | 9.094 | 8.550 | 8.421 | 828.1 | 12.37 |
| 1979–80 | 14.40 | 9.628 | 8.561 | 8.400 | 925.5 | 13.21 |
| 1980-81 <u>a</u> / | 15.45 | 9,632 | 8,240 | 8.112 | 1,025.5 | 14.15 |

a/ Preliminary; subject to revision.

- Col. 1: Table 1, column 2.
- Col. 2: Table 6, column 5.
- Col. 3: Table 6, column 5 minus column 6.
- Col. 4: Table 6, column 8.
- Col. 5: Table 15, column 4.
- Col. 6: F.o.b. prices (other than pears) in Table 1 weighted by corresponding domestic commercial shipments in Table 2.

TABLE 8

Actual and Estimated F.O.B. Prices of Pacific Coast Canned Bartlett Pears from 1950-51

| Marketing | | Equation (3) | | | | | |
|------------------------|--------|------------------|-------------------|---------------|--|--|--|
| year, June | Actual | Fakimakad | Difference: | Column 3 | | | |
| through | f.o.b. | Estimated f.o.b. | column 1 minus | as percent | | | |
| May | price | price | column 2 | of column 1 | | | |
| - | 1 | dollars per case | 3 | 4 | | | |
| | | | T | percent | | | |
| 1950–51 | 7.80 | 7.45 | 0.35 | 4.5 | | | |
| 1951-52 | 7.86 | 8.13 | -0.27 | -3.4 | | | |
| 1952–53 | 6.49 | 7.03 | -0.54 | -8.2 | | | |
| 1953–54 | 6.91 | 7.17 | -0.26 | -3.8 | | | |
| 1954–55 | 6.92 | 6.75 | 0.17 | 2.4 | | | |
| 1955-56 | 6.72 | 6.74 | -0.02 | -0.3 | | | |
| 1956-57 | 6.89 | 6.66 | 0.23 | 3.4 | | | |
| 1957–58 | 6.25 | 6.16 | 0.09 | 1.4 | | | |
| 1958-59 | 6.88 | 6.84 | 0.04 | 0.7 | | | |
| 1959-60 | 6.15 | 6.11 | 0.04 | 0.6 | | | |
| 1960-61 | 6.50 | 6.53 | -0.03 | -0.5 | | | |
| 1961-62 | 6.53 | 6.34 | 0.19 | 2.9 | | | |
| 1962-63 | 5.64 | 5.73 | -0.09 | -1.7 | | | |
| 1963-64 | 7.60 | 7.44 | 0.16 | 2.1 | | | |
| 1964-65 | 6.29 | 6.14 | 0.15 | 2.3 | | | |
| 1965-66 | 7.55 | 7.63 | -0.08 | -1.0 | | | |
| 1966-67 | 6.14 | 6.20 | -0.06 | -1.0 | | | |
| 1967-68 | 9.00 | 8.73 | 0.27 | 3.0 | | | |
| 1968-69 | 7.25 | 7.33 | -0.08 | -1.2 | | | |
| 1969-70 | 6.50 | 6.75 | -0.25 | -3.9 | | | |
| 1970–71 | 8.05 | 8.14 | -0.09 | -1.1 | | | |
| 1971-72 | 7.80 | 7.79 | 0.01 | 0.1 | | | |
| 1972–73 | 8.35 | 8.05 | 0.30 | 3.6 | | | |
| 1973-74 | 9.30 | 8.97 | 0.33 | 3.6 | | | |
| 1974–75 | 11.70 | 11.26 | 0.44 | 3.8 | | | |
| 1975–76 | 10.30 | 10.66 | -0.36 | -3.5 | | | |
| 1976-77 | 10.15 | 10.63 | -0.48 | -4.7 | | | |
| 1977–78 | 10.55 | 11.28 | -0.73 | -6.9 | | | |
| 1978-79 | 14.25 | 13.44 | 0.81 | 5.7 | | | |
| 1979–80 | 14.40 | 14.35 | 0.05 | 0.4 | | | |
| 1980-81 ^a / | 15.45 | 15.56 | -0.11 | -0.7 | | | |
| a/ Proliminary, cub | | | <u> </u> | | | | |

 $[\]underline{a}/$ Preliminary; subject to revision.

Col. 1: Table 7, column 1.

Col. 2: Computed using data in Table 7 applied to equation (3), page 17.

Canned Pears Price Equations

The equations shown below, bases on the 31-year period 1950-51 through 1980-81, were estimated using ordinary least squares. Standard errors are set out in parentheses; R is the multiple correlation coerricient and d is the Durbin-Watson statistic.

(1)
$$(1n^{2}) = 0.8142 - 0.5449$$
 (1n X₁) + 0.2179 (1n X₄)
 (0.070) (0.054) (0.028)
+ 0.6148 (1n X₅) $R^{2} = 0.984$ d = 1.28
 (0.045)

(2)
$$(1n^{2}) = 0.7653 - 0.4898 (1n X2) + 0.2042 (1n X4)
 $(0.069) (0.050) (0.028)$
+ 0.6016 (1n X₅) $R^{2} = 0.983$ $d = 1.50$
 $(0.046)$$$

(3)
$$(1n^{2}) = 0.7273 - 0.5174 (1n X_{3}) + 0.2260 (1n X_{4}) (0.063) (0.049) (0.028)$$

+ $0.5787 (1n X_{5})$ $R^{2} = 0.985$ $d = 1.61 (0.045)$

- Y: F.o.b. price of Pacific Coast canned Bartlett pears (choice, No. 2½, dollars per case), Table 7, column 1.
- X1: Total movement of Pacific Coast canned Bartlett pears (million cases, 24 No. 2½ basis), Table 7, column 2.
- X₂: Commercial movement of Pacific Coast canned Bartlett pears (million cases, 24 No. 2½ basis), Table 7, column 3.
- X3: Domestic commerical movement of Pacific Coast canned Bartlett pears (million cases, 24 No. 2½ basis), Table 7, column 4.
- X4: U. S. disposable personal income (1947-48 to 1949-50 = 100), Table 7, column 5.
- X5: Weighted average price of competing canned fruits (dollars per case), Table 7, column 6.

TABLE 9

California Canned Apricots, Canners' Pack, Carry-Over, Shipments, and Exports from 1947-48

| Marketing year, June through May | Pack 1 | Canners' stocks on hand at beginning of year 2 | Total supply 3 | Canners' stocks on hand at end of year | Total f.o.b. movement from canners' hands | U.S. govern- ment direct f.o.b. purchases | U.S. exports 7 | F.o.b. commer- cial domestic movement 8 |
|--|-----------|---|----------------------|--|--|--|----------------------|--|
| | | · · · · · · · · · · · · · · · · · · · | thousan | ds of cases | ; 24 No. 2½ | Dasis | | |
| 1947-48 | 3,063 | 279 | 3,342 | 639 | 2,703 | | 288 | 2,415 |
| 1948-49 | 4,651 | 639 | 5,290 | 1,508 | 3,782 | | 254 | 3,528 |
| 1949-50 | 2,307 | 1,508 | 3,815 | 532 | 3,283 | | 211 | 3,072 |
| 1950-51 | 3,661 | 532 | 4,193 | 115 | 4,078 | 376 | 136 | 3,566 |
| 1951-52 | 4,538 | 115 | 4,653 | 614 | 4,039 | 496 | 133 | 3,410 |
| 1952-53 | 3,905 | 614 | 4,519 | 646 | 3,873 | 613 | 112 | 3,148 |
| 1953-54 | 4,718 | 646 | 5,364 | 1,021 | 4,343 | 245 | 164 | 3,934 |
| 1954-55 | 2,678 | 1,021 | 3,699 | 222 | 3,477 | 54 | 246 | 3,177 |
| 1955-56 | 5,781 | 222 | 6,003 | 1,176 | 4,827 | 118 | 215 | 4,494 |
| 1956-57 | 4,118 | 1,777 | 5,295 | 993 | 4,302 | 148 | 302 | 3,852 |
| 1957-58 | 4,004 | 993 | 4,998 | 604 | 4,394 | 179 | 344 | 3,871 |
| 1958-59 | 1,718 | 604 | 2,322 | 117 | 2,205 | 27 | 126 | 2,052 |
| 1959-60 | 4,885 | 117 | 5,002 | 581 | 4,421 | 199 | 196 | 4,026 |
| 1960-61 | 5,949 | 581 | 6,530 | 1,766 | 4,765 | 445 | 246 | 4,073 |
| 1961-62 | 4,744 | 1,766 | 6,510 | 1,179 | 5,331 | 496 | 387 | 4,448 |
| 1962-63 | 3,946 | 1,179 | 5,125 | 1,013 | 4,112 | 192 | 173 | 3,747 |
| 1963-64 | 4,029 | 1,013 | 5,042 | 625 | 4,417 | 323 | 180 | 3,914 |
| 1964-65 | 5,085 | 625 | 5,710 | 1,210 | 4,500 | 540 | 137 | 3,823 |
| 1965-66 | 5,138 | 1,210 | 6,348 | 1,115 | 5,233 | 250 | 235 | 4,748 |
| 1966-67 | 5,018 | 1,115 | 6,133 | 1,020 | 5,113 | 553 | 135 | 4,425 |
| 1967-68 | 4,213 | 1,020 | 5,233 | 970 | 4,263 | 417 | 62 | 3,784 |
| 1968-69 | 4,513 | 970 | 5,483 | 1,036 | 4,447 | 960 | 54 | 3,433 |
| 1969-70 | 5,543 | 1,036 | 6,579 | 2,405 | 4,174 | 570 | 94 | 3,510 |
| 1970-71 | 3,766 | 2,067 ^{<u>a</u>/} | 5,833 | 1,696 | 4,137 | 580 | 54 | 3,503 |
| 1971-72 | 3,263 | 1,696 | 4,959 | 561 | 4,398 | 846 | 92 | 3,460 |
| 1972-73 | 3,041 | 561 | 3,602 | 298 | 3,304 | 66 | 135 | 3,103 |
| 1973-74 | 4,094 | 298 | 4,392 | 467 | 3,925 | 54 | 114 | 3,757 |
| 1974-75 | 1,987 | 467 | 2,454 | 236 | 2,218 | 11 | 33 | 2,174 |
| 1975-76 | 4,421 | 236 | 4,657 | 1,534 | 3,123 | 166 | 42 | 2,915 |
| 1976-77 | 2,387 | 1,534 | 3,921 | 870 | 3,051 | 266 | 54 | 2,731 |
| 1977-78 | 2,269 | 870 | 3,139 | 452 | 2,687 | 154 | 60 | 2,473 |
| 1978-79 | 2,127 | 452 | 2,579 | 267 | 2,312 | 58 | 108 | 2,146 |
| 1979-80 | 2,887 | 267 | 3,154 | 716 | 2,438 | 54 | 61 | 2,323 |
| 1980-81 <u>a</u> / | 2,994 | 716 | 3,710 | 1,069 | 2,641 | 499 | 50 | 2,092 |
| | | | | | | | | |

a/ Excludes cyclamate packs.

Sources: Canners League of California and U. S. Departments of Agriculture, Commerce, and Defense.

 $[\]underline{b}$ / Preliminary; subject to revision.

F.O.B. Prices of California Canned Apricots and Related Economic Variables from 1950-51

TABLE 10

| Marketing year, June | F.o.b prices of California canned apricots | | ement of Califor | nia | U. S. disposable | Weighted average prices |
|----------------------------|---|------------|------------------|------------------------|---------------------|----------------------------|
| through May | (choice, No. 2) | Total | Commercial | Domestic commercial | personal income | of competing canned fruits |
| | l | 2 | 3 | 4 | 5 | . 6 |
| | dollars per | | | | 1947-48 to | dollars per |
| | case | millions o | f cases; 24 No. | 2½ basis | 1949-50 = 100 | case |
| 1950-51 | 5.75 | 4.078 | 3.702 | 3.567 | 115.6 | 6.17 |
| 1951-52 | 5.94 | 4.039 | 3.543 | 3.410 | 122.7 | 6.35 |
| 1952-53 | 5.68 | 3.873 | 3.260 | 3.148 | 131.3 | 5.97 |
| 1953-54 | 5.25 | 4.343 | 4.098 | 3.933 | 135.1 | 5.96 |
| 1954-55 | 5.66 | 3.477 | 3.423 | 3.177 | 140.5 | 6.01 |
| 1955–56 | 5.10 | 4.827 | 4.709 | 4.494 | 151.2 | 6.24 |
| 1956–57 | 5.60 | 4.302 | 4.154 | 3.852 | 160.4 | 5.99 |
| 1957–58 | 5.48 | 4.394 | 4.215 | 3.871 | 166.3 | 5.73 |
| 1958–59 | 6.75 | 2.205 | 2.178 | 2.052 | 175.3 | 6.16 |
| 1959–60 | 5.38 | 4.421 | 4.222 | 4.026 | 183.6 | 5.60 |
| 1960-61 | 5.24 | 4.765 | 4.320 | 4.074 | 189.3 | 5.59 |
| 1961-62 | 4.95 | 5.331 | 4.835 | 4.448 | 200.3 | 5.40 |
| 1962-63 | 5.65 | 4.112 | 3.920 | 3.747 | 209.7 | 5.04 |
| 1963-64 | 5.30 | 4.417 | 4.094 | 3.914 | 224.0 | 5.80 |
| 1964-65 | 5.26 | 4.500 | 3.960 | 3.823 | 241.9 | 5.26 |
| 1965-66 | 4.90 | 5.233 | 4.983 | 4.748 | 263.7 | 5.72 |
| 1966-67 | 5.15 | 5.113 | 4.560 | 4.425 | 282.1 | 5.39 |
| 1967-68 | 6.55 | 4.263 | 3.846 | 3.784 | 302.8 | 6.60 |
| 1968-69 | 6.70 | 4.447 | 3.487 | 3.433 | 324.2 | 6.05 |
| 1969-70 | 5.95 | 4.174 | 3.604 | 3.510 | 352.6 | 5.71 |
| 1970-71 | 6.00 | 4.137 | 3.557 | 3.503 | 382.6 | 6.57 |
| 1971-72 | 6.15 | 4.398 | 3.552 | 3.460 | 410.3 | 6.84 |
| 1972-73 | 7.90 | 3.304 | 3.238 | 3.103 | 454.7 | 7.46 |
| 1973-74 | 9.00 | 3.925 | 3.871 | 3.757 | 504.3 | 8.62 |
| 1974-75 | 13.15 | 2.218 | 2.207 | 2.174 | 552.6 | 10.69 |
| 1975-76 | 10.95 | 3.123 | 2.957 | 2.915 | 607.5 | 10.00 |
| 1976-77 | 11.10 | 3.051 | 2.785 | 2.731 | 662.0 | 10.27 |
| 1977-78 | 11.70 | 2.687 | 2.533 | 2.473 | 737.5 | 10.40 |
| 1978-79 | 14.85 | 2.312 | 2.254 | 2.146 | 828.6 | 12.64 |
| 1979-80 | 15.70 | 2.438 | 2.384 | 2.323 | 925.5 | 13.31 |
| 1980-81 <u>a</u> / | 16.00 | 2.641 | 2,142 | 2.092 | 1,025.5 | 14.33 |

a/ Preliminary; subject to revision.

- Col. 1: Table 1, column 3.
- Col. 2: Table 9, column 5.
- Col. 3: Table 9, column 5 minus column 6.
- Col. 4: Table 9, column 8.
- Col. 5: Table 15, column 4.
- Col. 6: F.o.b. prices (other than apricots) in Table 1 weighted by corresponding domestic commercial shipments in Table 2.

TABLE 11 Actual and Estimated F.O.B. Prices of California Canned Apricots from 1950-51

| Marketing | | Equation (3) | | | | | | |
|------------------------|-----------------|------------------|-------------------|------------------------|--|--|--|--|
| year, | | | Difference: | Column 3 | | | | |
| June | Actual | Estimated | column 1 | as | | | | |
| through May | f.o.b. price | f.o.b. price | minus column 2 | percent of column 1 | | | | |
| l'iay | 1 | 2 | 3 | 4 | | | | |
| | | dollars per case | | percent | | | | |
| 1950-51 | 5.75 | 5.62 | 0.13 | 2.3 | | | | |
| 1951-52 | 5.94 | 5.88 | 0.06 | 1.0 | | | | |
| 1952-53 | 5.68 | 5.78 | -0.10 | - 1.8 | | | | |
| 1953-54 | 5.25 | 5.36 | -0.11 | - 2.1 | | | | |
| 1954-55 | 5.66 | 5.83 | -0.17 | - 3.1 | | | | |
| 1955-56 | 5.10 | 5.38 | -0.28 | - 5.4 | | | | |
| 1956-57 | 5.60 | 5.51 | 0.09 | 1.6 | | | | |
| 1957–58 | 5.48 | 5.32 | 0.16 | 2.9 | | | | |
| 1958-59 | 6.75 | 7.08 | -0.33 | - 4.8 | | | | |
| 1959-60 | 5.38 | 5.20 | 0.18 | 3.3 | | | | |
| 1960-61 | 5.24 | 5.19 | 0.05 | 1.0 | | | | |
| 1961-62 | 4.95 | 4.92 | 0.03 | 0.7 | | | | |
| 1962-63 | 5.65 | 4.96 | 0.69 | 12.2 | | | | |
| 1963-64 | 5.30 | 5.52 | -0.22 | - 4.1 | | | | |
| 1964-65 | 5.26 | 5.18 | 0.08 | 1.6 | | | | |
| 1965-66 | 4.90 | 5.19 | -0.29 | - 5.8 | | | | |
| 1966-67 | 5.15 | 5.09 | 0.06 | 1.2 | | | | |
| 1967-68 | 6.55 | 6.41 | 0.14 | 2.1 | | | | |
| 1968-69 | 6.70 | 6.21 | 0.49 | 7.3 | | | | |
| 1969–70 | 5.95 | 5.92 | 0.03 | 0.5 | | | | |
| 1970-71 | 6.00 | 6.72 | -0.72 | -11.9 | | | | |
| 1971-72 | 6.15 | 7.03 | -0.88 | -14.3 | | | | |
| 1972-73 | 7.90 | 7.91 | -0.01 | - 0.2 | | | | |
| 1973-74 | 9.00 | 8.44 | 0.56 | 6.2 | | | | |
| 1974-75 | 13.15 | 12.28 | 0.87 | 6.6 | | | | |
| 1975–76 | 10.95 | 10.61 | 0.34 | 3.1 | | | | |
| 1976-77 | 11.10 | 11.19 | -0.09 | - 0.8 | | | | |
| 1977-78 | 11.70 | 11.83 | -0.13 | - 1.1 | | | | |
| 1978-79 | 14.85 | 14.76 | 0.08 | 0.6 | | | | |
| 1979–80 | 15.70 | 15.16 | 0.54 | 3.4 | | | | |
| 1980-81 ^a / | 16.00 | 16.88 | -0.88 | - 5.5 | | | | |

a/ Preliminary; subject to revision.

Col. 1: Table 10, column 1. Col. 2: Computed using data in Table 10 applied to equation (3), page 21.

Canned Apricots Price Equations

The equations shown below, bases on the 31-year period 1950-51 through 1980-81, were estimated using ordinary least squares. Standard errors are set out in parentheses; R is the multiple correlation coefficient and d is the Durbin-Watson statistic.

(1)
$$(1n^{2}) = 0.2376 - 0.3444$$
 $(1n^{2}) + 0.1113$ $(1n^{2})$ (0.177) (0.063) (0.029) $+ 0.7886$ $(1n^{2})$ (0.083) $R^{2} = 0.983$ $d = 1.66$

(2)
$$(1n^{2}) = 0.2166 - 0.3397 (1n^{2}) + 0.0933 (1n^{2}) + 0.8340 (1n^{2}) + 0.0933 (1n^{2}) + 0.09$$

(3)
$$(1n \ Y) = 0.1775 - 0.3438 (1n \ X_3) + 0.1009 (1n \ X_4) (0.182) (0.070) (0.030)$$

+ $0.8275 (1n \ X_5)$ $R^2 = 0.981$ $d = 1.62$ (0.084)

- Y: F.o.b. price of California canned apricots (choice, No. 2½, dollars per case), Table 10, column 1.
- X_1 : Total movement of California canned apricots (million cases, 24 No. $2\frac{1}{2}$ basis), Table 10, column 2.
- X2: Commercial movement of California canned apricots (million cases, 24 No. 2½ basis), Table 10, column 3.
- X3: Domestic commercial movement of California canned apricots (million cases, 24 No. 2½ basis), Table 10, column 4.
- X4: U. S. disposable personal income (1947-48 to 1949-50 = 100), Table 10 column 5.
- X5: Weighted average price of competing canned fruits (dollars per case), Table 10, column 6.

TABLE 12
Pacific Coast Canned Freestone Peaches, Canners' Pack, Carry-Over, and Shipments from 1947-48

| | | Canners' | | | Total 1 | | | | F.o.b. |
|--|----------------|--------------|----------------|------------|----------------|---|------------|----------------|------------------------------|
| Marketing | | stocks | | Canners' | f.o.b. | | | | commer- |
| year, | 1 | of hand | | stocks | movement | U. | S. governm | nent | cial |
| June | | at be- | | on hand | from | direct | f.o.b. pur | chases | domestic |
| through | | ginning | Total | at end | canners' | | Quarter- | - | move- ment ^a / |
| May | Pack | of year | supply | of year | hands | USDA | master | Total | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | the | ousands of | cases; 24 | No. 2½ ba | sis | | |
| | | I | | | | | l | | |
| | | | 0.505 | 441 | 2 155 | | | | 2,155 |
| 1947-48 | 2,525 | 71 | 2,596 | 441 | 2,155 2,322 | | | | 2,322 |
| 1948-49 | 2,310 | 441 429 | 2,751 2,665 | 429 457 | 2,322 | 30 | | 30 | 2,178 |
| 1949–50 | 2,236 | 429 | 2,000 | 437 | 2,200 | 30 | | 30 | 2,170 |
| | | 1 | | | | | | | |
| 1950-51 | 1,743 | 457 | 2,200 | 65 | 2,135 | | | | 2,135 |
| 1951-52 | 3.106 | 65 | 3,171 | 464 | 2,707 | | 200 | 200 | 2,507 |
| 1952-53 | 3,432 | 464 | 3,896 | 721 | 3,175 | | 100 | 100 | 3,075 |
| 1953-54 | 3,150 | 721 | 3,871 | 601 | 3,270 | 37 | 77 | 114 | 3,156 |
| 1954-55 | 3,698 | 601 | 4,299 | 458 | 3,841 | | | | 3,841 |
| | • | | | | | | | | 2 252 |
| 1955–56 | 3,989 | 458 | 4,447 | 588 | 3,859 | | | | 3,859 |
| 1956–57 | 5,668 | 588 | 6,256 | 1,568 | 4,688 | 10 | | 10 | 4,688 |
| 1957–58 | 4,374 | 1,568 | 5,942 | 1,171 | 4,771 | 18 | 270 | 18 | 4,753 5,161 |
| 1958–59 | 5,619 | 1,171 | 6,790 | 1,230 | 5,560 | 21 | 378 180 | 399 198 | 5,161 |
| 1959-60 | 6,319 | 1,230 | 7,549 | 1,902 | 5,647 | 18 | 180 | 190 | 3,449 |
| 1000 61 | E 070 | 1,902 | 7,880 | 1,888 | 5,992 | 100 | 137 | 237 | 5.755 |
| 1960-61 1961-62 | 5,978 5,947 | 1,888 | 7,835 | 1,702 | 6,133 | 152 | 422 | 574 | 5,559 |
| 1962-63 | 5,668 | 1,702 | 7,370 | 1,409 | 5,961 | 137 | 322 | 459 | 5,502 |
| 1962-63 | 5,181 | 1,409 | 6,590 | 1,175 | 5,415 | 28 | 294 | 322 | 5,093 |
| 1964-65 | 6,215 | 1,176 | 7,391 | 2,258 | 5,133 | 144 | 148 | 292 | 4,841 |
| 1304-03 | 0,210 | 1,2.0 | ,, | , | | | | |] |
| 1965-66 | 4,173 | 2,258 | 6,431 | 1,286 | 5,145 | | 545 | 545 | 4,600 |
| 1966-67 | 4,476 | 1,285 | 5,761 | 1,241 | 4,520 | 55 | 208 | 263 | 4,256 |
| 1967-68 | 3,644 | 1,240 | 4,884 | 1,066 | 3,818 | | 75 | 75 | 3,743 |
| 1968-69 | 4,244 | 1,066 | 5,310 | 1,646 | 3,664 | | 5 | 5 | 3,659 |
| 1969–70 | 4,104 | 1,646 | 5,750 | 1,636 | 4,114 | | 5 | 5 | 4,109 |
| 1070 711 | 0.510 | 1 1576/ | 3,669 | 1,064 | 2,605 | | 4 | 4 | 2,601 |
| 1970-71 <u>b/</u> | 2,512 | 1,157 5/ | 3,669 3,527 | 792 | 2,735 | | 1 7 | 7 | 2,735 |
| 1971–72 <u>b</u> / 1972–73 <u>b</u> / | 2,463 | 1,064 792 | 3,527 2,655 | 181 | 2,735 | | 1 | | 2,474 |
| 1972-73 <u>0</u> 7 1973-74 <u>b</u> 7 | 1,863 2,306 | 181 | 2,033 2,487 | 188 | 2,299 | | | | 2,299 |
| | | 188 | 3,188 | 949 | 2,239 | 177 | | 177 | 2,062 |
| 1974–75 <u>b</u> / | 3,000 | 100 | 3,100 | 747 | 2,235 | • | 1 | | -,555 |
| 1975-76b/ | 2,068 | 949 | 3,017 | 1,005 | 2,012 | 49 | 2 | 51 | 1,961 |
| 1976-775/ | 1,501 | 1,005 | 2,506 | 654 | 1,852 | 120 | 1 | 120 | 1,732 |
| 1977–78 <u>Б</u> / | 1,448 | 654 | 2,102 | 606 | 1,496 | 51 | | 51 | 1,445 |
| 1978-79 b / | 1,222 | 606 | 1,828 | 224 | 1,604 | 118 | | 123 <u>d</u> / | 1,481 |
| 1979-80 <u>5</u> / | 1,493 | 224 | 1,717 | 398 | 1,319 | 101 | 1 | 101 | 1,218 |
| | | | | | 1 100 | 170 | 27 | 102 | 1 006 |
| 1980-81 <u>b</u> / | 1,495 | 398 | 1,893 | 694 | 1,199 | 170 | - 23 | 193 | 1,006 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | ! | | | | | |
| L | <u> </u> | | | | | | | | |

 $[\]frac{a}{a}$ No exports of canned freestone peaches are reflected; exports of all canned peaches are considered as clings since no breakdown between exports of clings and frees is available.

b/ California only.

c/ Excludes cyclamate packs.

 $[\]underline{d}/$ Includes purchases by Veterans Administration.

Sources: Canners League of California, Northwest Food Processors Association, and U. S. Departments of Agriculture and Defense.

TABLE 13

F.O.B. Prices of Pacific Coast Canned Freestone Peaches and Related Economic Variables from 1950-51

| | F.o.b prices | | | r | | · |
|--------------------|--------------|--------------------------|----------------|-------------|---------------|---------------|
| | of Pacific | | | | | |
| Marketing | Coast canned | | | | Adjusted | |
| year, | freestone | | | U.S. | index | F.o.b. prices |
| June' | peaches | Movement of Pa | acific Coast | disposable | of competing | of California |
| through | (fancy, | canned freestone peaches | | personal | canned fruit | canned cling |
| May | No. 2) | Total | Commercial | income | prices | peaches |
| - iiuy | 1 1 | 2 | 3 | 4 | prices 5 | peaches 6 |
| 1 | dollars per | millions of cases; | | 7 1 3 | | dollars per |
| | case | 24 No. 2½ basis | | 1947-48 to | 1949-50 = 100 | case |
| 1050 51 | 7.50 | | | | | |
| 1950-51 | 7.50 | 2.135 | 2.135 | 115.6 | 94.3 | 5.17 |
| 1951-52 | 7.50 | 2.707 | 2.507 | 122.7 | 91.5 | 5.53 |
| 1952–53 | 7.00 | 3.175 | 3.075 | 131.3 | 80.6 | 5.32 |
| 1953-54 | 6.70 | 3.270 | 3.156 | 135.1 | 77.8 | 5.12 |
| 1954–55 | 6.45 | 3.841 | 3.841 | 140.5 | 76.3 | 5.17 |
| | | | | | | ` |
| 1955-56 | 6.78 | 3.859 | 3.859 | 151.2 | 72.4 | 5.70 |
| 1956-57 | 6.29 | 4.688 | 4.688 | 160.4 | 66.6 | 5.35 |
| 1957-58 | 6.10 | 4.771 | 4.753 | 166.3 | 61.6 | 5.10 |
| 1958-59 | 6.16 | 5.560 | 5.161 | 175.3 | 64.1 | 5.36 |
| 1959-60 | 5.79 | 5.647 | 5.101 5.449 | 183.6 | 54.7 | 4.89 |
| 1939-00 | J./ 7 | 5.047 | 3.449 | 103.0 | 54.7 | 4.89 |
| 1000 01 | | | | | | |
| 1960-61 | 5.52 | 5.992 | 5.755 | 189.3 | 53.2 | 4.86 |
| 1961–62 | 5.37 | 6.133 | 5.559 | 200.3 | 48.4 | 4.70 |
| 1962–63 | 5.20 | 5.961 | 5.502 | 209.7 | 43.9 | 4.50 |
| 1963-64 | 6.00 | 5.415 | 5.093 | 224.0 | 46.3 | 4.87 |
| 1964–65 | 5.68 | 5.133 | 4.841 | 241.9 | 39.1 | 4.51 |
| | | | | | | |
| 1965-66 | 5.80 | 5.145 | 4.600 | 263.7 | 38.6 | 4.65 |
| 1966-67 | 6.00 | 4.520 | 4.257 | 282.1 | 34.1 | 4.63 |
| 1967–68 | 7.15 | 3.818 | 3.743 | 302.8 | 39.1 | 5.50 |
| 1968-69 | 7.10 | 3.664 | 3.659 | 324.2 | 33.6 | 5.30 |
| 1969-70 | 6.20 | 4.114 | 4.109 | 352.6 | 29.2 | 5.05 |
| | | | | | | |
| 1970–71 | 7.10 | 2.605 | 2,601 | 382.6 | 30.7 | 5.60 |
| 1971-72 | 7.50 | 2.735 | 2.735 | 410.3 | 29.8 | 5.90 |
| 1972-73 | 8.20 | 2.474 | 2.474 | 454.7 | 29.6 | 6.50 |
| 1973-74 | 9.90 | 2.299 | 2.299 | 504.3 | 30.9 | 7.75 |
| 1974-75 | 13.00 | 2.239 | 2.062 | 552.6 | 35.1 | 9.90 |
| 1 | 10.00 | 2.207 | £ •00£ | 332.0 | 33.1 | 7.30 |
| 1975–76 | 11.35 | 2.012 | 1 061 | 607.5 | 20.0 | 0.25 |
| 1975-76 | 11.55 | | 1.961 | 607.5 | 29.8 | 9.25 |
| 1977-78 | | 1.852 | 1.732 | 662.0 | 28.1 | 9.60 |
| | 12.00 | 1.496 | 1.445 | 737.5 | 25.6 | 9.55 |
| 1978-79 | 12.95 | 1.604 | 1.481 | 828.6 | 28.0 | 11.15 |
| 1979–80 | 14.10 | 1.319 | 1.218 | 925.5 | 26.7 | 12.10 |
| 1980-81 <u>a</u> / | 14.00 | 1.119 | 1.006 | 1,025.5 | 25.5 | 13.00 |
| | | | | | | |
| | | | | | | |
| | | | | | L | |

 $[\]underline{a}$ / Preliminary; subject to revision.

- Col. 1: Table 1, column 4.
- Col. 2: Table 12, column 5.
- Col. 3: Table 12, column 9.
- Col. 4: Table 15, column 4.
- Col. 5: Table 15, column 5.
- Col. 6: Table 1, column 1.

TABLE 14

Actual and Estimated F.O.B. Prices of Pacific Coast Canned Freestone Peaches from 1950-51

| Marketing | | | Equation (2) | |
|------------------------|--------|------------------|-------------------|---------------|
| year, | Actual | Estimated | Differences: | Column 3 |
| June through | f.o.b. | f.o.b. | column 1 minus | as percent |
| May | price | price | column 2 | of column 1 |
| | 1 | dollars per case | 3 | 4 percent |
| 1 | | | | |
| 1950–51 | 7.50 | 7.52 | -0.02 | - 0.3 |
| 1951–52 | 7.50 | 7.43 | 0.07 | 1.0 |
| 1952–53 | 7.00 | 6.82 | 0.18 | 2.6 |
| 1953-54 | 6.70 | 6.74 | -0.04 | - 0.6 |
| 1954-55 | 6.45 | 6.57 | -0.12 | - 1.8 |
| 1955-56 | 6.78 | 6.66 | 0.12 | 1.8 |
| 1956–57 | 6.29 | 6.26 | 0.03 | 0.4 |
| 1957–58 | 6.10 | 6.06 | 0.04 | 0.6 |
| 1958-59 | 6.16 | 6.36 | -0.20 | - 3.2 |
| 1959–60 | 5.79 | 5.80 | -0.01 | - 0.2 |
| 1960-61 | 5.52 | 5.75 | -0.23 | - 4.1 |
| 1961-62 | 5.37 | 5.62 | -0.25 | - 4.7 |
| 1962-63 | 5.20 | 5.42 | -0.22 | - 4.3 |
| 1963-64 | 6.00 | 6.00 | 0.00 | 0.0 |
| 1964–65 | 5.68 | 5.66 | 0.02 | 0.3 |
| 1965–66 | 5.80 | 6.03 | -0.23 | - 3.9 |
| 1966-67 | 6.00 | 5.87 | 0.13 | 2.2 |
| 1967-68 | 7.15 | 6.99 | 0.16 | 2.2 |
| 1968-69 | 7.10 | 6.60 | 0.50 | 7.1 |
| 1969–70 | 6.20 | 6.19 | 0.01 | 0.2 |
| 1970–71 | 7.10 | 7.48 | -0.38 | - 5.3 |
| 1971–72 | 7.50 | 7.55 | -0.06 | - 0.7 |
| 1972-73 | 8.20 | 8.29 | -0.09 | - 1.1 |
| 1973-74 | 9.90 | 9.32 | 0.58 | 5.9 |
| 1974–75 | 13.00 | 11.15 | 1.85 | 14.2 |
| 1975–76 | 11.35 | 10.72 | 0.63 | 5.6 |
| 1976-77 | 11.55 | 11.20 | 0.35 | 3.1 |
| 1977-78 | 12.00 | 11.72 | 0.28 | 2.3 |
| 1978-79 | 12.95 | 13.51 | -0.56 | - 4.3 |
| 1979-80 | 14.10 | 14.69 | -0.59 | - 4.2 |
| | | | | |
| 1980-81 a / | 14.00 | 15.89 | -1.89 | -13.5 |
| | | | | , |
| | | | | |

a/ Preliminary; subject to revision.

Col. 1: Table 13, column 1.

Col. 2: Computed using data in Table 13 applied to equation (2), page 25.

TABLE 15

Construction of Adjusted Index of Prices of Canned Fruits
Competing With Canned Freestone Peaches from 1950-51

| Marketing year, | | | · · · · · · · · · · · · · · · · · · · | | Adjusted index of |
|--------------------|----------------|-------------------|---------------------------------------|-----------------|-------------------|
| June | | | | | competing |
| through | Weighted aver | | 6 | , . | canned fruit |
| May | competing c | anned fruits 2 | U. S. disposable 3 | personal income | prices 5 |
| | | index, | 3 | index, | <u> </u> |
| | dollars | 1947-48 to | billions | 1947-48 to | 1947-48 to |
| | per case | 1949-50 = 100 | of dollars | 1949-50 = 100 | 1949-50 = 100 |
| 1950-51 | 6.02 | 109.0 | 216.1 | 115.6 | 94.3 |
| 1951-52 | 6.20 | 112.3 | 229.4 | 122.7 | 91.5 |
| 1952-53 | 5.84 | 105.8 | 245.5 | 131.3 | 80.6 |
| 1953-54 1954-55 | 5.80 5.92 | 105.1 107.2 | 252.6 262.8 | 135.1 140.5 | 77.8 76.3 |
| 1954-55 | 5.92 | 107.2 | 202.0 | 140.5 | 70.3 |
| | | | | | |
| 1955-56 | 6.04 5.90 | 109.4 | 282.8 299.9 | 151.2 160.4 | 72.4 66.6 |
| 1956-57 1957-58 | 5.90 | 106.9 102.5 | 310.9 | 160.4 | 61.6 |
| 1958-59 | 6.20 | 112.3 | 327.9 | 175.3 | 64.1 |
| 1959-60 | 5.55 | 100.5 | 343.4 | 183.6 | 54.7 |
| | | | | , | |
| 1960-61 | 5.56 | 100.7 | 354.0 | 189.3 | 53.2 |
| 1961-62 | 5.35 | 96.9 | 374.5 | 200.3 | 48.4 |
| 1962-63 | 5.08 | 92.0 | 392.2 | 209.7 | 43.9 |
| 1963-64 1964-65 | 5.73 5.22 | 103.8 94.6 | 418.8 452.4 | 224.0 241.9 | 46.3 39.1 |
| 1304-03 | 3.22 | 74.0 | 132.4 | 241.5 | 33.1 |
| 1065.66 | 5.60 | 101.0 | 402.0 | 262.7 | 20.6 |
| 1965-66 1966-67 | 5.62 5.31 | 101.8 96.2 | 493.2 527.5 | 263.7 282.1 | 38.6 34.1 |
| 1967-68 | 6.54 | 118.5 | 566.2 | 302.8 | 39.1 |
| 1968-69 | 6.01 | 108.9 | 606.2 | 324.2 | 33.6 |
| 1969–70 | 5.68 | 102.9 | 659.4 | 352.6 | 29.2 |
| | | | | | |
| 1970-71 | 6.49 | 117.6 | 715.4 | 382.6 | 30.7 |
| 1971–72 1972–73 | 6.74 7.44 | 122.1 134.8 | 767.3 850.2 | 410.3 454.7 | 29.8 |
| 1972-73 | 8.59 | 155.6 | 942.9 | 504.3 | 30.9 |
| 1974-75 | 10.71 | 194.0 | 1,033.4 | 552.6 | 35.1 |
| | | | | | |
| 1975–76 | 10.01 | 181.3 | 1,136.0 | 607.5 | 29.8 |
| 1976-77 | 10.27 | 186.0 | 1,238.0 | 662.0 | 28.1 |
| 1977–78 | 10.42 | 188.7 | 1,379.2 | 737.5 | 25.6 |
| 1978-79 1979-80 | 12.75 13.43 | 230.9 243.2 | 1,548.6 1,730.8 | 828.1 925.5 | 28.1 26.3 |
| 19/9-00 | 13.43 | 243.2 | 1,/30.0 | 923.3 | 20.5 |
| 1980-81 <u>a</u> / | 14.43 | 261.3 | 1,917.7 | 1,025.5 | 25.5 |
| | | | | | |
| | | | | | |
| 1 | · | | | + | · |

a/ Preliminary; subject to revision.

- Col. 1: F.o.b. prices (other than freestones) in Table 1 weighted by corresponding domestic commercial shipments in Table 2.
- Col. 2: Figures in column 1 expressed as percentages of the 1947-48 to 1949-50 average.
- Col. 3: Based on income data in U. S. Department of Commerce, Survey of Current Business.
- Col. 4: Figures in column 3 expressed as percentages of the 1947-48 to 1949-50 average.
- Col. 5: Column 2 as percent of column 4.

Canned Freestone Peaches Price Equations

The equations shown below, based on the 31-year period 1950-51 through 1980-81, were estimated using ordinary least squares. Standard errors are set out in parentheses; R is the multiple correlation coefficient and d is the Durbin-Watson statistic.

(1)
$$(1n \ Y) = -4.6058 - 0.1999 \ (1n \ X_1) + 0.7200 \ (1n \ X_4) \ (0.783) \ (0.041)$$

$$+ 0.7390 \ (1n \ X_5) \ R^2 = 0.978 \ d = 0.95 \ (0.089)$$

(2)
$$(1n \ Y) = -4.4707 - 0.2046 \ (1n \ X_2) + 0.7057 \ (1n \ X_4) \ (0.868) \ (0.046)$$

$$+ 0.7240 \ (1n \ X_5) \ R^2 = 0.976 \ d = 0.89 \ (0.098)$$

- Y: F.o.b. price of Pacific Coast canned freestone peaches (fancy, No. 2½, dollars per case), Table 13, column 1.
- X1: Total movement of Pacific Coast canned freestone peaches (million cases, 24 No. 2½ basis), Table 13, column 2.
- X2: Commercial movement of Pacific Coast canned freestone peaches (million cases, 24 No. 2½ basis), Table 13, column 3.
- X_4 : U. S. disposable personal income (1947-48 to 1949-50 = 100), Table 13, column 4.
- X_5 : Adjusted index of prices of competing canned fruits (1947-48 to 1949-50 = 100), Table 13, column 5.

TABLE 16 California Canned Fruit Cocktail, Canner's Pack, Carry-Over, Shipments, and Exports, from 1950-51

| 1 | | 1 | | | | Total | 1 | | |
|--------------------|---|----------|------------|-------------|------------------|----------------|--|---------|------------|
| Marketing | | | Canners' | | Canners' | f.o.b. | | | |
| year, | | | stocks | | stocks | movement | U.S. | | F.o.b. |
| June, | | Remanu- | on hand at | | on hand | from | government | | commercial |
| through | Direct | factured | beginning | Total | at end | canners' | direct f.o.b. | U.S. | domestic |
| May | pack | pack | of year | supply | of year | hands | purchases | exports | movement |
| l'iay | Pack | 2 | Oi year | Supply A | 5 | 6 | 7 | 8 | 9 |
| - | | | | thousands | of cases; 24 No. | | | | |
| - | | ····· | | 5,70454,145 | or ouses, er no | 2 343.5 | 1 1 | | |
| 1950-51 | 6,810 | 303 | 2,104 | 9,217 | 490 | 8,727 | 747 | 616 | 7,364 |
| 1951-52 | 8,999 | *** | 489 | 9,488 | 2,335 | 7,153 8,777 | 949 | 601 | 5,604 |
| 1952-53 | 7,489 | | 2,335 | 9,824 | 1,047 | 8,777 | 423 | 902 | 7,452 |
| 1953-54 | 8,056 | 171 | 1,047 | 9,274 | 1,287 | 7,987 | 297 | 745 | 6,945 |
| 1954-55 | 9,074 | | 1,287 | 10,361 | 1,226 | 9,135 | 113 | 985 | 8,037 |
| | | | | , | | | | | |
| 1955-56 | 9,809 | | 1,226 | 11,035 | 1,548 | 9,487 | 246 | 1,096 | 8,145 |
| 1956-57 | 11,033 | | 1,548 | 12,581 | 2,151 | 10,430 | 192 | 1,394 | 8,844 |
| 1957–58 | 10,638 | | 2,151 | 12,789 | 2,222 | 10,567 | 269 | 1,453 | 8,845 |
| 1958-59 | 10,734 | | 2,222 | 12,956 | 2,307 | 10,649 | 379 | 1,404 | 8,866 |
| 1959-60 | 12,074 | | 2,307 | 14,381 | 2,192 | 12,189 | 258 | 1,656 | 10,275 |
| 1960-61 | 12,848 | | 2,192 | 15,040 | 3,127 | 11,913 | 320 | 1,868 | 9,725 |
| 1961-62 | 13,660 | | 3,127 | 16,787 | 3,398 | 13,389 | 399 | 2,625 | 10,365 |
| 1962-63 | 13,771 | | 3,398 | 17,169 | 2,233 | 14,934 | 379 | 3,095 | 11,460 |
| 1963-64 | 12,565 | | 2,233 | 14,798 | 2,092 | 12,706 | 358 | 2,740 | 9,608 |
| 1964-65 | 16,176 | | 2,092 | 18,268 | 2,393 | 15,875 | 262 | 3,520 | 12,093 |
| | - | | | ŕ | | - | | • | |
| 1965-66 | 14,504 | | 2,393 | 16,897 | 3,440 | 13,457 | 535 | 2,730 | 10,192 |
| 1966-67 | 15,781 | | 3,440 | 19,221 | 2,676 | 16,545 | 330 | 3,333 | 12,882 |
| 1967–68 | 13,399 | | 2,676 | 16,075 | 2,836 | 13,239 | 407 | 2,020 | 10,812 |
| 1968-69 | 16,570 | | 2,836 | 19,406 | 3,316 | 16,090 | 888 | 2,365 | 12,837 |
| 1969–70 | 16,686 | | 3,316 | 20,002 | 4,067 | 15,935 | 352 | 2,666 | 12,917 |
| 1970-71 | 13,081 | | 3,113a/ | 16,194 | 3,453 | 12,741 | 320 | 1,842 | 10,579 |
| 1971–72 | 13,334 | | 3,453 | 16,787 | 4,336 | 12,451 | 377 | 1,633 | 10,441 |
| 1972-73 | 11,855 | | 4,336 | 16,191 | 2,335 | 13,856 | 470 | 2,119 | 11,267 |
| 1973-74 | 13,384 | | 2,335 | 15,719 | 1,240 | 14,479 | 160 | 2,500 | 11,819 |
| 1974-75 | 14,907 | | 1,240 | 16,147 | 3,065 | 13,082 | 219 | 1,679 | 11,184 |
| | · | | | Í | , | · | | • | |
| 1975-76 | 13,677 | | 3,065 | 16,742 | 3,240 | 13,502 | 224 | 1,748 | 11,530 |
| 1976–77 | 13,605 | | 3,240 | 16,845 | 3,272 | 13,573 | 516 | 1,796 | 11,261 |
| 1977–78 | 12,980 | | 3,272 | 16,252 | 2,600 | 13,652 | 557 | 1,978 | 11,117 |
| 1978-79 | 11,704 | | 2,600 | 14,304 | 1,688 | 12,616 | 187 | 2,013 | 10,416 |
| 1979–80 | 13,815 | | 1,688 | 15,503 | 2,696 | 12,807 | 127 | 2,498 | 10,182 |
| 1980-81 <u>b</u> / | 14,826 | | 2,696 | 17,522 | 5,047 | 12,475 | 237 | 2,408 | 9,830 |
| 1,000 01_ | _ · • • • • • • • • • • • • • • • • • • | | 2,000 | , | | | | _,· | |
| | | | | | | | | | |

 \underline{a} / Excludes cyclamate packs. \underline{b} / Preliminary; subject to revision. Sources: Canners League of California, Cling Peach Advisory Board, and U. S. Departments of Commerce and Defense.

TABLE 17

F.O.B. Prices of California Canned Fruit Cocktail and Related Economic Variables from 1950-51

| Marketing year, June | F.o.b. prices of California canned fruit cocktail | Moveme | nt of California | canned | U. S. disposable | Weighted average prices | |
|----------------------------|--|------------|------------------|-----------------|---------------------|----------------------------|--|
| through | (choice, | | | Domestic | personal | of competing | |
| May | No. 2) | Total 2 | Commercial 3 | commercial 4 | income 5 | canned fruits | |
| | dollars per | | <u> </u> | 1 4 | 1947-48 to | dollars per | |
| | case | millions | of cases; 24 No. | 2½ basis | 1949-50 = 100 | case | |
| 1950-51 | 6.65 | 8.727 | 7.980 | 7.364 | 115.6 | 5.96 | |
| 1951-52 | 6.68 | 7.153 | 6.204 | 5.604 | 122.7 | 6.22 | |
| 1952-53 | 6.41 | 8.777 | 8.354 | 7.452 | 131.3 | 5.81 | |
| 1953-54 | 6.67 | 7.987 | 7.690 | 6.945 | 135.1 | 5.68 | |
| 1954-55 | 6.57 | 9.135 | 9.022 | 8.037 | 140.5 | 5.81 | |
| 1955–56 | 6.56 | 9.487 | 9.241 | 8.145 | 151.2 | 5.98 | |
| 1956–57 | 6.22 | 10.430 | 10.238 | 8.844 | 160.4 | 5.87 | |
| 1957–58 | 6.28 | 10.567 | 10.298 | 8.845 | 166.3 | 5.55 | |
| 1958–59 | 6.83 | 10.649 | 10.270 | 8.866 | 175.3 | 5.99 | |
| 1959–60 | 6.27 | 12.189 | 11.931 | 10.275 | 183.6 | 5.38 | |
| 1960-61 | 6.17 | 11.913 | 11.593 | 9.725 | 189.3 | 5.38 | |
| 1961-62 | 5.75 | 13.389 | 12.990 | 10.365 | 200.3 | 5.23 | |
| 1962-63 | 5.40 | 14.934 | 14.555 | 11.460 | 209.7 | 4.99 | |
| 1963-64 | 6.50 | 12.706 | 12.348 | 9.608 | 224.0 | 5.55 | |
| 1964-65 | 5.78 | 15.875 | 15.613 | 12.093 | 241.9 | 5.10 | |
| 1965-66 | 6.75 | 13.457 | 12.922 | 10.192 | 263.7 | 5.32 | |
| 1966-67 | 6.00 | 16.545 | 16.215 | 12.882 | 282.1 | 5.16 | |
| 1967-68 | 7.20 | 13.239 | 12.832 | 10.812 | 302.8 | 6.40 | |
| 1968-69 | 6.35 | 16.090 | 15.202 | 12.837 | 324.2 | 6.00 | |
| 1969-70 | 6.10 | 15.935 | 15.583 | 12.917 | 352.6 | 5.60 | |
| 1970-71 | 7.30 | 12.741 | 12.421 | 10.579 | 382.6 | 6.29 | |
| 1971-72 | 7.70 | 12.451 | 12.074 | 10.441 | 410.3 | 6.52 | |
| 1972-73 | 8.20 | 13.856 | 13.386 | 11.267 | 454.7 | 7.25 | |
| 1973-74 | 9.20 | 14.479 | 14.319 | 11.819 | 504.3 | 8.47 | |
| 1974-75 | 11.15 | 13.082 | 12.863 | 11.187 | 552.6 | 10.70 | |
| 1975-76 | 10.90 | 13.502 | 13.278 | 11.530 | 607.5 | 9.79 | |
| 1976-77 | 11.35 | 13.573 | 13.057 | 11.261 | 662.0 | 9.98 | |
| 1977-78 | 11.70 | 13.652 | 13.095 | 11.117 | 737.5 | 10.07 | |
| 1978-79 | 13.90 | 12.616 | 12.429 | 10.416 | 828.6 | 12.37 | |
| 1979-80 | 14.60 | 12.807 | 12.680 | 10.182 | 925.5 | 13.07 | |
| 1980-81 <u>a</u> / | 15.95 | 12.475 | 12.238 | 9.830 | 1,025.5 | 13.91 | |

a/ Preliminary; subject to revision.

- Col. 1: Table 1, column 5.
- Col. 2: Table 16, column 6.
- Col. 3: Table 16, column 6 minus column 7.
- Col. 4: Table 16, column 9.
- Col. 5: Table 15, column 4.
- Col. 6: F.o.b. prices (other than fruit cocktail) in Table 1 weighted by corresponding domestic commercial shipments in Table 2.

 ${\it TABLE~18} \\$ Actual and Estimated F.O.B. Prices of California Canned Fruit Cocktail from 1950-51

| Marketing | | | Equation (3) | |
|------------------------|---------------|------------------|--------------------------|--------------|
| year, June | Actual | Estimated | Differences: column 1 | Column 3 |
| through | f.o.b. | f.o.b. | minus | percent |
| May | price | price | column 2 | of column 1 |
| | 1 | dollars per case | 3 | 4 percent |
| 1950-51 | 6.65 | 6.48 | 0.17 | 2.6 |
| 1951–52 | 6.68 | 7.02 | -0.52 | -7.8 |
| 1952-53 | 6.41 | 6.47 | -0.06 | -0.9 |
| 1953-54 | 6.67 | 6.50 | 0.17 | 2.6 |
| 1954–55 | 6.57 | 6.42 | 0.15 | 2.4 |
| 1955–56 | 6.56 | 6.60 | -0.04 | -0.7 |
| 1956-57 | 6.22 | 6.45 | -0.23 | -3.6 |
| 1957–58 | 6.28 | 6.22 | 0.06 | 0.9 |
| 1958–59 | 6.83 | 6.63 | 0.20 | 3.0 |
| 1959-60 | 6.27 | 5.96 | 0.31 | 5.0 |
| 1960–61 | 6.17 | 6.07 | 0.10 | 1.7 |
| 1961-62 | 5 . 75 | 5.90 | -0.15 | -2.7 |
| 1962-63 | 5.40 | 5.61 | 0.21 | -3.9 |
| 1963-64 | 6.50 | 6.39 | 0.11 | 1.7 |
| 1964–65 | 5.78 | 5.75 | 0.03 | 0.5 |
| 1965–66 | 6.75 | 6.26 | 0.49 | 7.2 |
| 1966-67 | 6.00 | 5.85 | 0.15 | 2.5 |
| 1967-68 | 7.20 | 7.21 | -0.01 | -0.2 |
| 1968-69 | 6.35 | 6.67 | -0.32 | -5.1 |
| 1969–70 | 6.10 | 6.42 | -0.32 | -5.3 |
| 1970–71 | 7.30 | 7.42 | -0.12 | -1.7 |
| 1971–72 | 7.70 | 7.74 | -0.04 | -0.5 |
| 1972-73 | 8.20 | 8.33 | -0.13 | -1.6 |
| 1973–74 | 9.20 | 9.38 | -0.18 | -1.9 |
| 1974–75 | 11.15 | 11.42 | -0.27 | -2.5 |
| 1975–76 | 10.90 | 10.79 | 0.11 | 1.0 |
| 1976–77 | 11.35 | 11.16 | 0.19 | 1.7 |
| 1977–78 | 11.70 | 11.46 | 0.24 | 2.1 |
| 1978–79 | 13.90 | 13.77 | 0.13 | 0.9 |
| 1979–80 | 14.60 | 14.67 | -0.07 | -0.5 |
| 1980-81 a / | 15.95 | 15.73 | 0.22 | 1.4 |

 $[\]underline{a}/$ Preliminary; subject to revision.

Col. 1: Table 17, column 1.

Col. 2: Computed using data in Table 17 applied to equation (3), page 28.

Canned Fruit Cocktail Equations

The equations shown below, based on the 31-year period 1950-51 through 1980-81, were estimated using ordinary least squares. Standard errors are set out in parentheses; R is the multiple correlation coefficient and d is the Durbin-Watson statistic.

(1)
$$(1n^{2}) = 0.3374 - 0.2421$$
 $(1n^{2}) + 0.1695$ $(1n^{2})$ (0.097) (0.074) (0.046)

$$+ 0.6995 (1n^{2})$$

$$(0.079)$$

$$R^{2} = 0.989 \qquad d = 1.14$$

(3)
$$(1n^{2}Y) = 0.3181 - 0.2483 (1n^{2}X_{3}) + 0.1579 (1n^{2}X_{4}) (0.089) (0.073) (0.041)$$

+ 0.7256 (1n X₅) $R^{2} = 0.989$ $d = 1.38 (0.070)$

- Y: F.o.b. price of California canned fruit cocktail (choice, No. 2½, dollars per case), Table 17, column 1.
- X1: Total movement of California canned fruit cocktail (million cases, 24 No. 2½ basis), Table 17, column 2.
- X2: Commercial movement of California canned fruit cocktail (million cases, 24 No. 2½ basis), Table 17, column 3.
- X₃: Domestic commercial movement of California canned fruit cocktail (million cases, 24 No. 2½ basis), Table 17, column 4.
- X4: U. S. disposable personal income (1947-48 to 1949-50 = 100), Table 17, column 5.
- X5: Weighted average price of competing canned fruits (dollars per case), Table 17, column 6.

Appendix

Some new f.o.b. price forecasting equations for canned Bartlett pears are presented in this Appendix. In these equations the f.o.b. price is related to available supplies (carry-in plus pack) of Pacific Coast canned Bartlett pears, available supplies of competing canned fruits, disposable income, and the consumer price index. While the new equations fit the historical data less well than the equations shown on page 18, they are easier to apply, avoid the circularity implicit in the latter, and, viewed strictly as forecasting devices, are believed to rest on a sounder statistical basis. Appendix Table A.1 records the data used in estimating these equations, and Appendix Table A.2 compares the prices projected by these equations with actual prices.

Similar work is in progress on the other canned fruits. Results will be made available in subsequent reports.

Canned Pears Price Forecasting Equations

The equations shown below, based on the 31-year period 1950-51 through 1980-81, were estimated using ordinary least squares. Standard errors are set out in parentheses, R is the multiple correlation coefficient, and d is the Durbin-Watson statistic.

(1A)
$$\hat{Y} = 2.1924 - 0.3873 Z_1 - 0.0364 Z_2 + 1.0475 (1n Z_3) + 0.0525 Z_4 (2.079) (.073) R^2 = 0.964 d = 2.01$$

(2A)
$$1nY = 2.1432 - 0.4082$$
 (1n Z_1) - 0.4251 (1n Z_2) + 0.4364 (1n Z_3) (.245) (.087) (.083) $R^2 = 0.950$ d = 1.53 (.006)

- Y: F.o.b. price of Pacific Coast canned Bartlett pears (choice, $24/2\frac{1}{2}$, dollars per case), Appendix Table A.1, column 1.
- Z1: Total supply of Pacific Coast Canned Bartlett pears (million cases, $24/2\frac{1}{2}$ basis), Appendix Table A.1, column 2.
- Z_2 : Total supply of competing canned fruits (million cases, $24/2\frac{1}{2}$ basis), Appendix Table A.1, column 3.
- Z₃: U. S. disposable personal income (1947-48 to 1949-50 = 100), Appendix Table A.1, column 4.
- Z4: U. S. consumer price index (1967 = 100), Appendix Table A.1, column 5.
- Z₅: Relative annual change in Z₄ (percent), Appendix Table A.1, column 6.

APPENDIX TABLE A.1

Data Base for Canned Pears F.O.B. Price Forecasting Equations

| Marketing | F.o.b. price of Pacific Coast canned | Supply of | | U.S. | U. S. | Annual rela- |
|---------------------------------|--|---|---|----------------------------|----------------------------|---|
| year, June through May | Bartlett pears (choice, 24/2½) | Pacific Coast canned Bartlett pears | Total supply of competing canned fruits | disposable personal income | consumer price index | tive change in consumer price index |
| riay | 1 | 2 | 3 | 4 | 5 | 6 |
| | dollars | millions o | | | | |
| | per case | 24/2½ | basis | 1947-1949 = 100 | 1967 = 100 | percent |
| 1950-51 | 7.80 | 6.5 | 32.1 | 115.6 | 74.8 | 5.4 |
| 1951-52 | 7.86 | 6.8 | 37.1 | 122.7 | 78.6 | 5.1 |
| 1952-53 | 6.49 | 7.6 | 36.6 | 131.3 | 79.9 | 1.7 |
| 1953-54 | 6.91 | 6.5 | 38.1 | 135.1 | 80.6 | 0.2 |
| 1954-55 | 6.92 | 8.2 | 34.9 | 140.5 | 80.3 | - 0.3 |
| 1955–56 | 6.72 | 9.4 | 39.9 | 151.2 | 80.4 | 0.2 |
| 1956–57 | 6.89 | 10.0 | 47.1 | 160.4 | 82.6 | 2.8 |
| 1957–58 | 6.25 | 10.7 | 46.8 | 166.3 | 85.4 | 3.4 |
| 1958–59 | 6.88 | 9.7 | 42.1 | 175.3 | 86.8 | 1.6 |
| 1959–60 | 6.15 | 10.8 | 51.4 | 183.6 | 87.9 | 1.3 |
| 1960-61 | 6.50 | 9.9 | 53.6 | 189.3 | 89.1 | 1.4 |
| 1961-62 | 6.53 | 10.8 | 57.5 | 200.3 | 90.0 | 1.0 |
| 1962-63 | 5.64 | 11.7 | 58.7 | 209.7 | 91.1 | 1.2 |
| 1963-64 | 7.60 | 7.2 | 54.7 | 224.0 | 92.3 | 1.4 |
| 1964-65 | 6.29 | 11.2 | 64.6 | 241.9 | 93.5 | 1.2 |
| 1965–66 | 7.55 | 8.4 | 58.0 | 263.7 | 95.5 | 2.1 |
| 1966–67 | 6.14 | 12.3 | 64.3 | 282.1 | 98.4 | 3.1 |
| 1967–68 | 9.00 | 7.7 | 52.9 | 302.8 | 101.6 | 3.2 |
| 1968–69 | 7.25 | 11.5 | 63.1 | 324.2 | 106.3 | 4.7 |
| 1969–70 | 6.50 | 13.0 | 69.5 | 352.6 | 112.6 | 5.9 |
| 1970-71 | 8.05 | 11.2 | 58.0 | 382.6 | 118.5 | 5.3 |
| 1971-72 | 7.80 | 13.6 | 53.9 | 410.3 | 123.0 | 3.7 |
| 1972-73 | 8.35 | 12.8 | 47.6 | 454.7 | 127.6 | 3.8 |
| 1973-74 | 9.30 | 12.3 | 45.8 | 504.3 | 138.5 | 8.5 |
| 1974-75 | 11.70 | 12.5 | 52.2 | 552.6 | 154.1 | 11.3 |
| 1975–76 | 10.30 | 13.5 | 54.5 | 607.5 | 165.4 | 7.3 |
| 1976–77 | 10.15 | 14.9 | 52.2 | 662.0 | 174.8 | 5.7 |
| 1977–78 | 10.55 | 13.1 | 54.3 | 737.5 | 186.5 | 6.7 |
| 1978–79 | 14.25 | 11.7 | 44.7 | 828.1 | 203.4 | 9.1 |
| 1979–80 | 14.40 | 13.2 | 47.8 | 925.6 | 230.0 | 13.1 |
| 1980-81 <u>a</u> / | 15.45 | 14.5 | 52.6 | 1,025.5 | 252.5 | 9.8 |

a/ Preliminary; subject to revision.

- Col. 1: Table 1, column 2.
- Col. 2: Table 6, column 3.
- Col. 3: Sum of total supplies of canned cling peaches (Table 3, column 3), canned apricots (Table 9, column 3), canned freestone peaches (Table 12, column 3), and fruit cocktail (Table 16, column 4).
- Col. 4: Table 7, column 5.
- Col. 5: U. S. Bureau of Labor Statistics. The figures shown are simple averages of the 12 monthly indexes, June through May, for each season.
- Col. 6: The index value for current year minus the index value of preceding year expressed as a percent of the index value of the preceding year. The index value for 1949-50 required to calculate the 1950-51 relative change is 71.0.

APPENDIX TABLE A.2 Actual and Estimated F.O.B. Prices of Pacific Coast Canned Bartlett Pears

| Marketing | | Equation 1A | | | | Equation 2A | |
|------------------------|------------------|------------------|-----------------|--------------------|------------------|-----------------|-----------------------|
| year, | | | Difference: | 0.1.0 | | Difference: | |
| June through | Actual f.o.b. | Estimated f.o.b. | Col. 1 minus | Col. 3 as ratio of | Estimated f.o.b. | Col. 1 minus | Col. 6 as ratio of |
| May | price | price | col. 2 | col. 1 | price | col. 5 | col. 1 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | do | llars per case | <u> </u> | percent | dollars | per case | percent |
| 1950-51 | 7.80 | 7.42 | 0.38 | 4.9 | 8.01 | -0.21 | - 2.7 |
| 1951–52 | 7.86 | 7.37 | 0.49 | 6.2 | 7.55 | 0.31 | 4.0 |
| 1952-53 | 6.49 | 7.21 | -0.72 | -11.1 | 7.00 | -0.51 | - 7.9 |
| 1953-54 | 6.91 | 7.66 | -0.75 | -10.9 | 7.22 | -0.31 | - 4.4 |
| 1954–55 | 6.92 | 7.14 | -0.22 | - 3.2 | 6.86 | 0.06 | 0.9 |
| 1955–56 | 6.72 | 6.57 | 0.15 | 2.2 | 6.39 | 0.33 | 4.9 |
| 1956–57 | 6.89 | 6.26 | 0.63 | 9.1 | 6.27 | 0.62 | 9.1 |
| 1957-58 | 6.25 | 6.18 | 0.07 | 1.1 | 6.28 | 0.03 | - 0.5 |
| 1958-59 | 6.88 | 6.87 | 0.01 | 0.1 | 6.76 | 0.12 | 1.7 |
| 1959-60 | 6,15 | 6.20 | -0.05 | - 0.8 | 6.03 | 0.12 | 2.0 |
| 1960-61 | 6.50 | 6.57 | -0.07 | - 1.1 | 6.23 | 0.27 | 4.1 |
| 1961-62 | 6.53 | 6.19 | 0.34 | 5.2 | 5.94 | 0.59 | 9.1 |
| 1962-63 | 5.64 | 5.90 | -0.26 | - 4.6 | 5.83 | -0.19 | - 3.4 |
| 1963-64 | 7.60 | 7.91 | -0.31 | - 4.1 | 7.57 | 0.03 | 0.4 |
| 1964-65 | 6.29 | 6.16 | 0.13 | 2.1 | 6.07 | 0.22 | 3.5 |
| 1965-66 | 7.55 | 7.68 | -0.13 | - 1.7 | 7.54 | 0.01 | 0.1 |
| 1966-67 | 6.14 | 6.16 | -0.02 | - 0.3 | 6.49 | -0.35 | - 5.7 |
| 1967–68 | 9.00 | 8.60 | 0.40 | 4.5 | 8.82 | 0.18 | 2.0 |
| 1968-69 | 7.25 | 7.07 | 0.18 | 2.5 | 7.37 | -0.12 | - 1.6 |
| 1969–70 | 6.50 | 6.67 | -0.17 | - 2.6 | 7.13 | -0.63 | - 9.7 |
| 1970-71 | 8.05 | 8.19 | -0.14 | - 1.7 | 8.39 | -0.34 | - 4. 3 |
| 1971–72 | 7.80 | 7.72 | 0.08 | 1.1 | 8.00 | -0.20 | - 2.6 |
| 1972-73 | 8.35 | 8.61 | -0.26 | - 3.1 | 9.06 | -0.71 | - 8.5 |
| 1973–74 | 9.30 | 9.54 | -0.24 | - 2.6 | 10.71 | -1.41 | -15.2 |
| 1974–75 | 11.70 | 10.14 | 1.56 | 13.3 | 11.05 | 0.65 | 5.5 |
| 1975–76 | 10.30 | 10.37 | -0.07 | - 0.7 | 10.15 | 0.15 | 1.4 |
| 1976–77 | 10.15 | 10.49 | -0.34 | - 3.4 | 10.00 | 0.15 | 1.5 |
| 1977-78 | 10.55 | 11.84 | -1.29 | 12.2 | 11.08 | -0.53 | - 5.0 |
| 1978–79 | 14.25 | 13.74 | 0.51 | 3.6 | 13.87 | 0.38 | 2.6 |
| 1979–80 | 14.40 | 14.56 | -0.16 | - 1.1 | 14.55 | -0.15 | - 1.0 |
| 1980-81 ^a / | 15.45 | 15.17 | 0.28 | 1.8 | 13.20 | 2.25 | 14.6 |

 $[\]underline{a}$ / Preliminary; subject to revision.

Col. 1: Appendix Table A.1, column 1.
Col. 2: Computed using data in Appendix Table A.1 applied to equation (1A), page 32.
Col. 5: Computed using data in Appendix Table A.2 applied to equation (1A), page 32.