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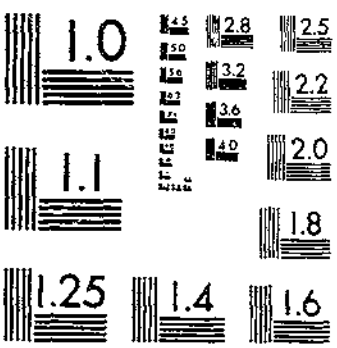

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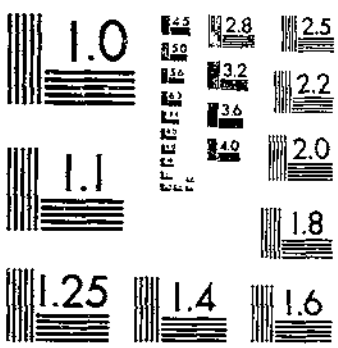

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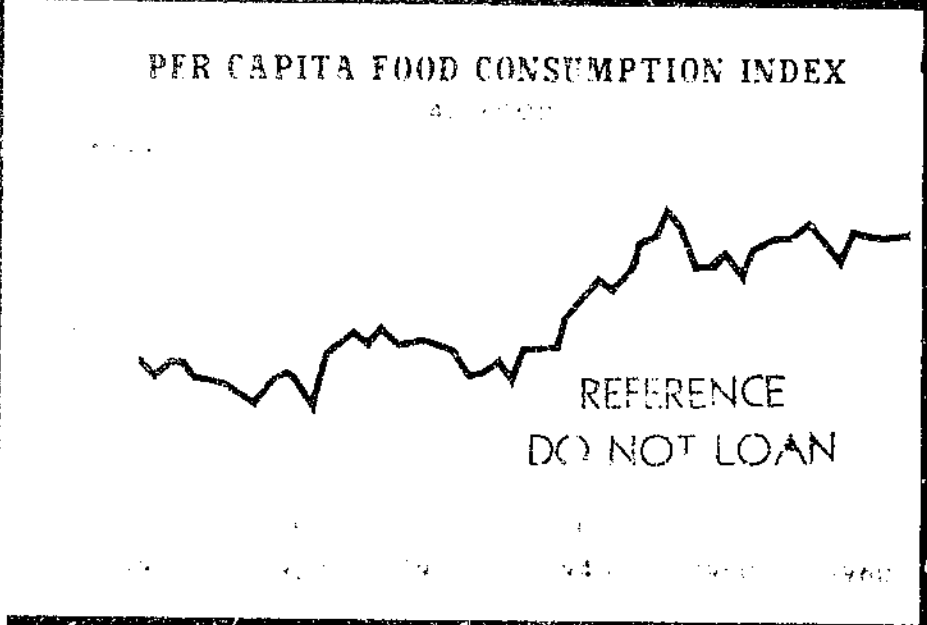
STATISTICAL BULLETIN NO. 364

U.S. FOOD CONSUMPTION

Sources of Data and Trends, 1909-63



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WASHINGTON, D. C. JUNE 1965

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This report supersedes Consumption of Food in the United States, 1909-52, Agricultural Handbook No. 62 and annual supplements issued for years through 1962.

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U. S. FOOD CONSUMPTION
Sources of Data and Trends, 1909-63

Food Consumption and Utilization Section
Economic and Statistical Analysis Division
Economic Research Service

CHAPTER 1. INTRODUCTION AND METHODOLOGY

This report contains the annual per capita food consumption estimates for the U. S. civilian population, the nutritive values of this food, the total annual food supply and use, and explanations of the derivation of consumption estimates.

This report supersedes a report published in 1953, Consumption of Food in the United States, 1909-52 (72). 1/ Since that time, annual statistical supplements have been issued that updated tables in the original handbook. The tabular material is revised and consolidated in this report. New information includes quarterly consumption estimates for certain commodities. Also, beginning with 1960, consumption data for Alaska and Hawaii are added to those for the other 48 States. The indexes have been rebased to 1957-59. Consumption of foods donated by the U.S. Department of Agriculture (USDA) now is reported as a separate component of total civilian consumption. Consumption estimates have been refined and more commodity detail given.

Historical Background

Though the U. S. Department of Agriculture has collected and published information on food production for many years, information on food consumption is relatively recent. Interest in food consumption was stimulated by surpluses in agriculture following World War I. The need for accurate data became apparent in analyzing and administering production planning programs under the Agricultural Adjustment Act of 1933. One objective of these programs was the maintenance of adequate supplies of food for domestic consumers. Effects of the droughts of 1934 and 1936 on the national food supply were analyzed in a series of special reports issued by the Bureau of Agricultural Economics (BAE) between October 1934 and September 1936.

The Department issued its first estimates of per capita food consumption in 1941 for use in appraising food requirements and resources in the war emergency. Estimates of per capita consumption of major foods have been published quarterly since 1942 in the National Food Situation (19). In 1949, data beginning with 1909 were published in Consumption of Food in the United States, 1909-48 (71). Historical series on per capita food disappearance were developed to analyze long-time trends, shifts in demand, and nutrients provided by food.

Handbook Organization

This report begins with consumption estimates and later gives the primary data from which they are derived. After a general section on methodology, the index of per capita food consumption is given in chapter 2. The index shows the trend in total food consumption, with quantities of individual foods combined using average retail prices in a base period.

Per capita consumption estimates are given by commodity in the following chapter. Quantities for use in the per capita food consumption index and the nutrient analysis are given in terms of retail-weight equivalents. The primary weights from which the retail weights are derived are presented in the same tables and the procedures of conversion are explained in detail. Selected quarterly consumption estimates are given in chapter 4. The nutritive values of food available for consumption follow in chapter 5.

Balance sheets which show the supply and utilization of primary farm or food products are used in deriving consumption

1/ Underscored numbers in parentheses refer to Literature Cited, pp. 188-194.

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estimates on a primary-weight basis; they are given in chapter 6. These tables are accompanied by a careful explanation of the sources of the basic data. This information is organized by commodities. The relationship between farm output, foreign trade, annual stock changes, and the various uses of food and other farm products are explored briefly in chapter 7 using the index of supply and utilization of all farm commodities.

National household food consumption surveys are briefly described in chapter 8. Some of their advantages over the disappearance method in estimating food consumption are enumerated. Chapter 9 contains time series data on retail food prices that correspond as closely as possible to the per capita food consumption series. Food expenditures, disposable income, and the population data used in deriving per capita food consumption estimates complete the presentation.

Methodology

Most food consumption data in this handbook are derived from independent estimates of production or marketings of farm products, foreign trade, and stock changes. They are not direct estimates of consumption. Some production data relate to raw farm products, and others to processed or semi-processed food products. For example, fresh fruits are measured in farm weights, but processed fruits are in canner or packer weights. The stage in the marketing system at which production is initially measured is termed the primary level. Data used are the most reliable that are available of products after they are usable as food. Processing, such as the slaughtering of livestock, often eliminates nonfood byproducts of raw farm commodities. Products often marketed as ingredients of processed or mixed foods--such as sugar, flour, and vegetable oils--are measured before final processing to avoid double counting and to be able to relate them back to raw farm products.

A complete balance sheet of supply and utilization is tabulated for each major food product or commodity group. Annual production, imports, and beginning stocks in all positions, including stocks held by USDA or under loan by the Commodity Credit Corporation (CCC), constitute total annual supply. 2/ Stocks on hand at the end of the calendar year are deducted from total supply in arriving at total annual utilization. Civilian disappearance is approximated by deducting the following data from total utilization: Exports and shipments to U. S. Territories; nonfood uses such as feed, seed, and alcoholic beverages; industrial nonfood use; and military food use.

Civilian disappearance, the residual from all other known uses, normally is the estimate of domestic, civilian food consumption. Per capita consumption usually is derived by using civilian resident population on July 1. Civilian disappearance includes domestic donations to schools, charitable institutions, and needy persons. This use is tabulated separately from other civilian use, and thus, can be excluded when desired.

Commodity balance sheets are calculated by using weights of food measured at the primary distribution stage of the marketing system; that is, after a farm product is identifiable as food, but before it is mixed with other primary foods. These points in the marketing system are not uniform among commodities: Some commodities are measured on a farm-weight basis, others after partial or complete processing. Also, commodities incorporate varying amounts of nonfood byproducts, and undergo varying amounts of processing and marketing losses between the primary level and sale at retail.

Estimates of per capita civilian food consumption are converted from primary weights to retail-weight equivalents. This conversion eliminates many of the disparities in weight bases among foods and provides consistency with retail food prices for calculation of the aggregate

2/ Total annual supply, as defined, may exceed the total amount of product available at any one time during the year. For example, most of a crop harvested late in the year would be carried in beginning stocks on January 1. Total supply then includes nearly 2 years' production, even if little carryover takes place between crop years.

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consumption index. These conversions, based on estimates of waste and loss, also bring consumption estimates nearer to the level of household use. In this way, better estimates can be made of the nutritive values of food available for consumption.

Weight loss from the primary level to sale at retail may result from further processing, trimming, shrinkage, or spoilage. Conversion factors used to translate primary weights to retail weights were reviewed and updated to reflect changes in marketing practices. Most of the changes were introduced gradually over a 10-year period. Computed retail weights are approximations because weight-loss estimates for many products are not based on completely adequate information.

Limitations

Because of data sources and methodology employed, most per capita food consumption estimates have the following characteristics:

1. They are national averages for the entire civilian population. No variations in food consumption due to age, sex, ethnic background, religion, race, urbanization, region, family size, or income level are discernible even though these factors probably are associated with varying patterns or levels of food consumption. Household food consumption surveys or detailed data on shipments and stocks would be required to determine such differences. Improved estimates of stocks now allow limited seasonal consumption estimates.

2. Food consumption data are aggregates of food obtained from all sources. Retail-weight equivalents measure consumption as if all food were sold through retail food stores. Much of this food, however, is consumed on farms where produced; or is sold through wholesale channels to restaurants, hotels, other away-from-home eating places, and to schools, camps, hospitals, and other institutions.

3. No measure is made of loss of food after it is sold at retail. Spoilage, inedible waste, cooking losses, unused leftovers, and use as pet food are included in food consumption poundages because such data are sketchy or not available. However, estimates of nutritive values exclude inedible waste.

4. The disappearance method of calculation relegates to consumption all residual uses for which data are not available, such as miscellaneous nonfood uses, stock changes at retail or consumer level, and the sum of all statistical and measurement errors. Consumption of certain minor items is omitted because of lack of data.

5. Since food consumption estimates begin with estimates of production, most foods are defined on the same basis as the primary products from which they are derived rather than the many forms in which they are ultimately marketed. For example, sugar consumption includes the total sugar used in all the mixed foods in which it is marketed. As a result, no consumption data are presented on such processed consumer products as jelly, candy, and bread. Even if they were available, such data would duplicate reported consumption of the primary ingredients.

6. The conversion factors used to derive retail weights from primary weights are averages over various varieties and qualities of product and methods of marketing. Though some year-to-year variations have been made in the factors, most of them are constant over the entire period since 1909. As a result, many variations in quality and yield of product and in marketing procedures go undetected in the consumption estimates at retail and the per capita food consumption index.

7. Annual food consumption estimates are subject to revision in conforming to data from the Census of Agriculture and the Census of Manufactures. Annual estimates are based on estimates of production, most of which are made by USDA's Statistical Reporting Service (SRS).

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CHAPTER 2. PER CAPITA FOOD CONSUMPTION INDEX

The per capita food consumption index is a quantity index weighted by average retail prices in a base period. Quantities that go into the index are retail-weight equivalents. Retail prices correspond as closely as possible to the respective quantities they weight in the index.

Index Computation

The index is computed using the Laspeyres formula,

$$\frac{\sum_{i=1}^{n} q_{ti} \quad p_{oi}}{\sum_{i=1}^{n} q_{oi} \quad p_{oi}},$$

where q_{ti} represents the quantity of the ith individual food product consumed in the current year, q_{oi} represents the average quantity of the same food product consumed in the base period, and p_{oi} represents the average retail price of the same product in the base period. The 1957-59 base period was used for years since 1955; the 1947-49 base period was used for earlier years. 3/ The old and new indexes were "linked" on the basis of comparisons in 1955.

A given year's total of all quantity-price aggregates was divided by a similar total for the 1957-59 average to obtain each annual index number (table 1). Quantity-price aggregates of individual commodity groups can be added and index numbers computed on any desired combination of food groups. In linking the series at 1955, the ratio of indexes using the 1947-49 and 1957-59 base period prices was used to adjust earlier data to the 1957-59 base period. Slight differences in coverage and food groupings thereby were linked at 1955.

Retail prices of the Bureau of Labor Statistics (BLS) were used as base-year weights when appropriate, but many items were not priced by BLS, or at least not in the form in which quantities consumed were measured. Fortunately, BLS sampled prices in a large number of cities, and weighted them by city size. But since these prices were averages for products with rigid specifications for grade and form, some prices had to be adjusted to represent the average of all products consumed. Retail prices compiled by the Statistical Reporting Service (SRS) for use in the family-living component of the Prices Paid Index sometimes were used since they relate to all products purchased. Certain price relationships, derived from the 1955 Household Food Consumption Survey which covered farm, rural nonfarm, and urban consumers, were used to adjust base-year prices from other sources. Wholesale prices marked up to retail were used occasionally. Average retail prices in the 2 base periods and base-period value aggregates are given in table 2.

Food Groupings and Relative Importance

Separation of edible fats and oils into animal and crop groups enabled computation of per capita consumption indexes for all animal products and all crop (plant) products (fig. 1). Crops marketed through livestock are counted in their final retail form (as livestock products). As a result, animal products are weighted more heavily in the consumption index than they would be in a production index based on value added at the farm.

Over the years, the relative importance of animal products, which include fish and livestock products, has varied between 55 and 60 percent of the total (table 3). The revision shifted the weighting in favor of crop products--though animal products continued to dominate. The reduction for animal products resulted partly from reduced prices for poultry, eggs, fish, and animal fats. In contrast, retail prices of most crop products increased between the two base periods.

3/ Experimental use of 1935-39 prices to weight prewar data resulted in some shift in the importance of some foods--a small decrease for dairy products, an increase for meats, but no change in the all-food index. Therefore, 1947-49 prices were used prior to 1955.

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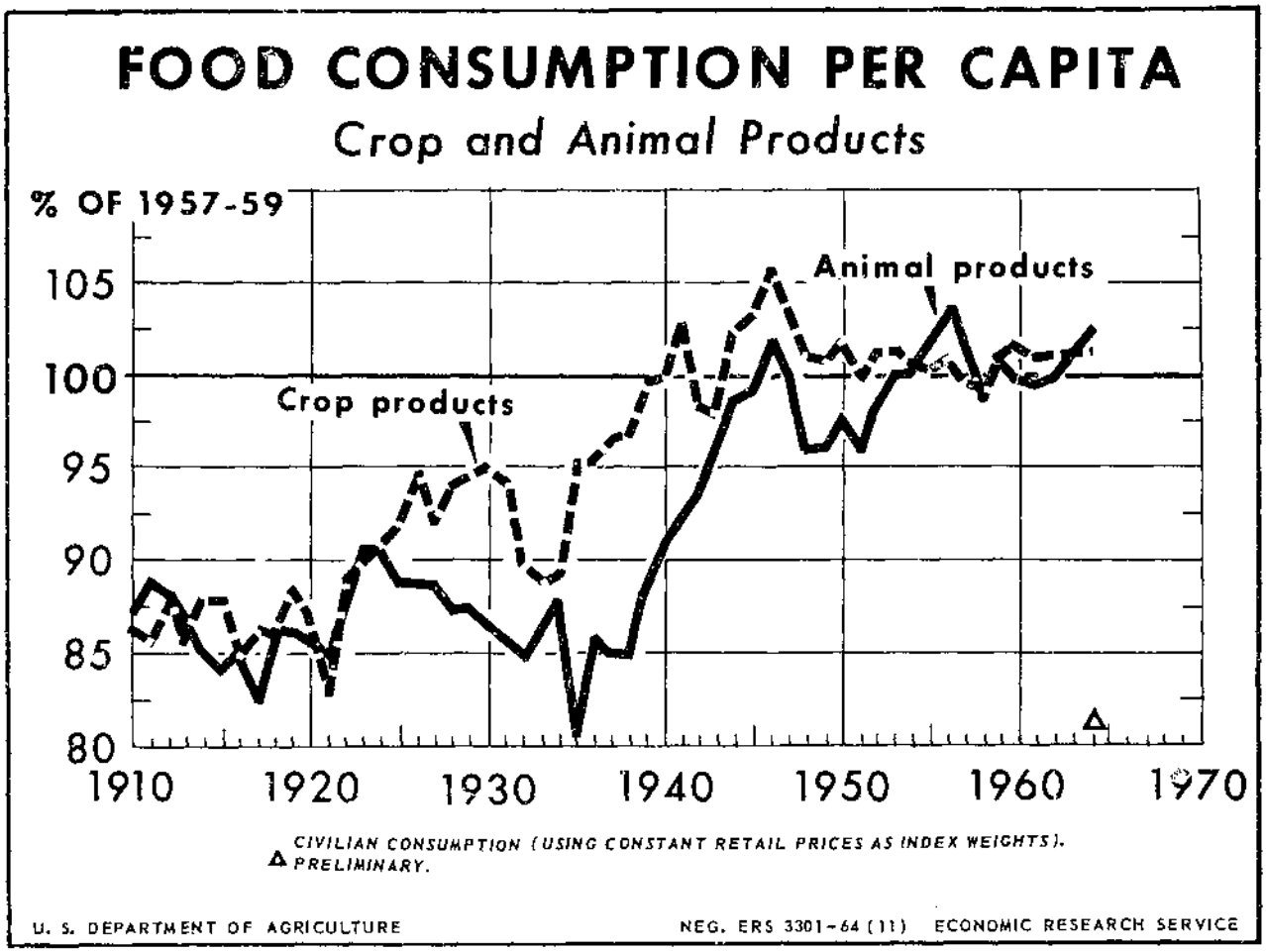

FIGURE 1

Crop and animal components of the all-food index have varied considerably from year to year. Consumption of crop products rose more sharply than that of animal products from about 1920 to 1950, but since 1950 consumption of animal products has gained relative to crop products (figs. 2 and 3). Major product substitutions have occurred within each of these two groups. Until recent years, fruits and vegetables gained while cereals and potatoes declined. Per capita consumption of dairy products and eggs, which increased in the prewar period, trended downward in postwar years. But these declines have been more than offset by postwar uptrends for meat and poultry.

Division of the fats and oils group into those of animal and crop (plant) origin involved separating butter, lard, and beef fats from the edible vegetable oils. Vegetable oils come from a wide variety of crops, the most important of which are soybeans and cottonseed. Fats and oils, originating from both animals and crops, often are consumed as blends or mixtures in final products such as shortening and margarine. However, consumption of fats and oils from animal and crop sources have sharply contrasting historical trends, influenced largely by the substitution of margarine for butter and shortening for lard. As a result, the relative importance of vegetable oils increased over the 1909-63 period, but that of animal products declined. However, reduced prices between the base periods for both groups gave total fats and oils less weight in the index.

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Table 1.--Per capita food consumption

(Index, 1957-

Year	Meat, poultry, fish				Eggs	Dairy products		Fats and oils				Fruits			Melons 3/
									Including butter						
	Meat 2/	Poultry	Fish	Total		Including butter	Excluding butter	Excluding butter	Animal	Vegetable	Total	Fresh	Processed	Total	
1909	102.0	46.9	104.9	92.2	78.6	88.7	73.7	49.4	169.1	36.6	98.0	149.5	14.8	81.2	141.2
1910	96.3	49.2	106.9	88.7	82.3	86.1	70.0	50.0	173.7	37.6	100.7	148.4	14.3	80.4	137.6
1911	99.9	50.0	107.8	91.5	88.6	84.5	67.8	48.5	174.9	36.5	100.7	168.4	15.9	91.1	134.0
1912	96.0	47.9	108.7	88.3	83.6	90.0	77.0	47.2	157.7	35.5	92.2	170.6	17.5	92.9	137.6
1913	94.4	46.8	110.6	87.1	81.5	88.9	75.8	51.8	174.6	43.6	95.1	144.7	15.7	79.3	134.0
1914	91.9	46.6	112.5	85.3	79.3	86.8	72.8	61.0	159.2	55.2	103.5	174.4	18.5	95.3	122.4
1915	88.8	46.6	107.1	82.7	84.1	87.0	72.7	58.0	163.7	49.4	102.4	165.5	21.6	92.6	126.2
1916	92.5	45.0	105.0	84.8	80.5	86.8	72.3	54.4	165.7	43.6	100.2	144.3	23.4	83.1	126.2
1917	89.1	43.3	103.8	82.0	75.8	86.6	74.5	53.3	149.4	44.8	93.2	139.9	26.6	82.6	126.2
1918	93.5	43.5	103.8	85.2	76.4	91.1	81.7	66.6	142.1	58.7	97.4	130.5	22.6	76.0	129.8
1919	92.3	46.4	111.1	85.5	81.5	89.0	77.7	63.1	147.8	56.4	98.8	133.3	31.5	81.9	132.8
1920	89.8	44.9	113.4	83.5	80.5	90.7	80.2	53.6	146.6	42.2	90.6	154.4	30.7	91.9	148.8
1921	88.1	44.0	100.2	81.1	80.5	92.7	80.5	49.6	155.9	38.4	92.8	123.0	25.7	73.9	156.5
1922	90.7	46.3	108.7	84.1	84.7	94.1	80.7	59.4	169.3	45.8	103.0	157.9	27.0	91.8	158.9
1923	96.8	47.9	102.8	88.5	87.8	94.0	79.4	61.9	177.3	46.9	107.3	155.8	26.9	90.6	135.6
1924	96.6	46.4	105.9	88.1	87.2	95.1	80.9	59.3	177.5	43.3	105.5	159.6	28.8	93.5	151.8
1925	92.0	47.0	106.8	85.0	85.4	96.4	82.0	65.9	173.9	56.4	110.9	144.6	33.0	88.3	149.8
1926	90.6	46.8	109.7	84.2	90.8	96.6	81.8	67.0	176.0	58.1	112.8	169.9	38.6	103.7	153.9
1927	88.3	50.0	116.6	83.7	91.9	96.5	81.8	64.9	176.0	54.6	110.8	139.5	35.7	87.1	140.9
1928	86.0	48.1	116.7	81.7	90.8	95.9	82.1	67.8	172.2	57.1	110.4	161.9	35.9	98.3	142.2
1929	85.8	47.3	113.9	81.1	89.9	97.6	84.0	71.5	170.4	63.5	113.1	151.9	34.2	92.5	146.6
1930	84.7	51.6	97.4	80.1	89.0	96.4	82.7	72.0	170.2	64.4	113.4	144.6	35.3	89.4	146.2
1931	85.8	46.6	86.2	79.0	89.4	95.9	81.1	67.9	178.7	56.3	113.0	169.9	30.2	99.8	150.0
1932	85.8	48.7	80.7	79.1	84.1	94.7	79.5	63.0	181.3	48.8	110.2	135.4	31.3	82.8	132.8
1933	89.2	50.3	84.0	82.2	79.8	94.3	79.4	64.7	178.0	52.0	110.4	131.8	33.0	82.0	125.5
1934	94.2	46.4	90.0	85.4	77.6	94.1	78.6	68.5	179.2	58.7	114.6	134.2	34.1	83.7	128.5
1935	77.4	44.8	102.7	73.6	75.3	95.0	81.2	72.9	163.2	71.6	114.1	155.4	39.2	96.7	131.6
1936	85.6	48.1	115.0	81.2	77.6	96.1	83.4	77.4	162.6	73.4	114.8	144.1	45.6	94.5	129.2
1937	83.2	48.1	103.1	78.6	82.9	97.5	85.1	76.9	158.9	75.2	114.0	166.5	42.4	103.9	136.5
1938	83.4	45.5	106.5	78.5	83.6	97.2	84.9	77.5	159.6	74.8	114.2	151.8	46.6	98.8	129.5
1939	87.4	50.3	104.4	82.2	84.1	99.5	86.3	77.6	170.6	70.8	117.1	164.1	50.8	107.1	126.3
1940	93.1	51.8	102.0	86.7	85.6	99.5	87.0	76.8	171.2	66.5	115.1	153.2	57.4	105.1	133.6
1941	94.4	55.9	107.6	88.8	83.6	100.5	89.6	83.2	163.7	74.8	116.1	161.2	53.3	106.9	123.8
1942	93.4	62.7	83.8	88.0	84.5	106.2	95.9	77.3	160.8	68.8	111.5	136.7	52.0	94.3	112.3
1943	97.8	77.8	75.2	93.9	92.4	101.4	96.4	77.8	129.6	69.6	97.5	122.5	45.3	83.8	110.5
1944	103.4	69.6	83.5	96.8	94.4	103.3	98.4	75.3	128.0	68.4	96.1	145.6	45.4	95.1	133.0
1945	97.3	76.4	93.7	94.6	106.9	106.7	103.8	72.9	117.9	67.2	90.8	144.3	57.0	100.5	130.6
1946	101.6	70.5	100.7	96.9	100.9	111.6	109.8	75.9	114.4	71.5	91.5	143.6	77.9	111.0	133.4
1947	102.1	64.3	96.1	95.6	103.8	107.4	104.0	79.8	125.2	72.5	97.0	149.4	67.0	108.3	124.0
1948	95.4	63.1	101.0	90.8	106.0	102.3	100.2	84.1	115.4	77.8	95.4	138.4	69.3	104.0	119.9
1949	94.8	67.5	102.2	91.3	105.1	102.3	99.4	84.5	117.1	81.0	97.8	134.6	72.6	103.7	117.3
1950	94.8	73.1	110.9	93.2	107.6	102.4	99.2	92.2	121.8	88.5	104.1	119.9	78.7	99.5	109.6
1951	90.3	77.4	105.7	90.5	109.0	100.8	99.1	84.9	112.8	78.6	94.5	125.3	77.8	101.7	111.2
1952	95.5	79.6	104.9	94.6	109.0	100.8	100.5	93.4	105.2	90.7	97.5	120.1	87.9	104.2	107.5
1953	101.8	79.3	103.2	99.2	106.0	99.8	99.5	94.6	103.8	92.7	98.0	113.2	90.4	102.0	113.8
1954	101.0	83.7	104.1	99.5	105.1	100.7	99.9	98.7	103.2	101.5	102.4	108.3	91.1	100.8	115.2
1955	105.7	78.6	97.2	101.4	103.8	101.9	101.1	98.9	106.7	99.3	102.9	102.2	98.3	100.3	115.7
1956	107.7	88.2	98.3	104.4	103.2	102.3	101.8	98.1	106.2	96.3	101.2	102.8	100.1	101.5	108.7
1957	101.9	93.8	96.7	100.5	101.6	100.7	100.6	96.7	101.3	96.0	98.6	100.6	103.3	101.9	97.8
1958	96.8	101.3	98.0	97.5	99.4	99.8	99.6	99.4	100.3	99.7	100.0	98.0	96.9	97.5	102.5
1959	101.3	104.9	105.3	102.0	99.0	99.5	99.8	103.9	98.4	104.3	101.4	101.4	99.8	100.6	99.7
1960	101.8	102.3	102.1	101.9	93.9	98.3	99.0	103.2	92.1	106.1	99.3	98.0	104.0	100.9	100.7
1961	101.1	112.4	102.4	102.8	91.4	96.5	97.1	102.9	94.1	103.1	98.7	94.5	101.6	97.9	98.5
1962	102.2	110.5	101.7	103.3	90.8	96.6	97.4	104.9	91.5	106.6	99.2	90.2	106.0	97.7	94.4
1963	105.5	111.8	100.8	106.1	88.8	96.5	97.6	107.9	98.9	111.6	100.5	82.2	97.6	89.6	98.6

1/ Quantities of individual foods, measured in pounds equivalent to the form sold at retail food stores (approximately equal to those (table 2); indexes linked at 1955. Civilian consumption only, beginning 1941. Includes Alaska and Hawaii beginning 1960.

2/ Includes edible offal and all pork.

3/ Data for melons, fresh vegetables, potatoes, sweetpotatoes, and dry beans and peas include consumption from home garden produce,

4/ Corn sugar and sirup are with sugars and other sweeteners.

5/ Excludes sugar used in production of canned and frozen fruit, canned fruit juices, canned vegetables, and unskimmed sweetened

6/ Excludes spices and herbs.

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index, United States, 1909-63 1/

59=100)

Fruits, melons, baby food	Vegetables					Vege-tables, soup, baby food	Potatoes and sweet-potatoes 3/	Beans, peas, nuts, soya products 3/	Flour and cereal products 4/	Sugars and other sweet-eners 5/	Coffee, tea, cocoa	All foods			Year
	Fresh 3/	Processed			Total 3/							Animal products	Crop products 6/	Total	
		Canned	Frozen	Total											
82.6	114.6	33.6	---	24.9	85.3	75.7	199.0	87.1	149.8	53.1	66.6	89.6	86.9	88.3	09
81.6	114.1	32.1	---	23.7	84.6	75.2	208.0	84.3	149.1	54.4	64.9	87.2	87.0	86.9	10
91.3	112.0	34.8	---	25.8	83.8	74.7	170.7	84.3	145.8	55.8	62.6	88.8	86.3	87.6	11
93.2	114.1	41.5	---	30.7	86.9	77.6	189.0	84.3	144.0	54.7	74.6	88.2	88.4	88.1	12
80.4	109.5	43.7	---	32.3	84.3	75.5	195.9	84.8	142.9	57.7	62.9	86.8	86.3	86.4	13
94.7	113.1	42.5	---	31.4	86.5	77.6	167.4	80.2	142.2	57.1	64.9	84.9	88.7	86.3	14
92.4	111.3	38.8	---	29.4	84.6	75.9	194.2	81.2	141.1	54.7	73.7	84.2	88.5	85.8	15
83.5	112.2	36.1	---	26.7	84.3	75.7	159.0	78.1	141.1	54.5	79.2	85.0	85.0	84.8	16
83.1	112.2	42.3	---	31.3	85.9	77.1	167.3	98.6	137.0	55.4	88.3	82.7	87.0	84.2	17
77.1	114.1	50.3	---	37.1	89.0	79.9	188.2	86.6	131.4	55.6	76.9	86.2	86.7	86.2	18
82.7	111.3	48.2	---	35.6	86.6	77.9	174.4	101.2	134.9	65.1	77.1	86.0	89.1	87.1	19
92.8	118.7	40.7	---	30.1	89.7	80.7	162.6	81.8	129.2	62.8	78.5	85.4	87.7	86.2	20
76.4	114.8	37.6	---	27.8	86.4	77.8	172.9	85.2	121.7	62.6	78.2	84.7	83.2	83.8	21
93.2	117.2	38.5	---	28.4	88.2	80.1	164.4	83.0	128.5	74.2	79.3	87.5	89.9	88.3	22
91.0	114.1	47.9	---	35.4	88.4	80.9	183.9	94.1	128.7	65.5	86.4	90.5	90.3	90.2	23
94.4	116.7	50.9	---	37.6	90.9	82.5	156.6	98.6	126.8	78.7	82.3	90.5	91.6	90.8	24
89.5	117.8	56.8	---	42.0	93.2	84.1	159.5	96.4	129.8	80.2	74.7	88.7	92.6	90.1	25
104.0	117.7	58.7	---	43.4	93.5	84.5	139.8	96.0	132.3	81.1	83.6	88.8	95.5	91.4	26
88.0	116.8	49.4	---	36.6	90.7	82.2	155.4	103.7	132.3	80.7	80.5	88.6	92.7	90.2	27
98.4	117.2	50.4	---	37.2	91.1	82.9	154.0	103.4	132.1	81.9	78.6	87.3	94.9	90.2	28
93.2	122.1	57.4	---	42.4	96.2	87.7	166.0	98.5	131.4	76.3	81.8	87.4	95.3	90.4	29
90.4	125.6	63.1	---	46.7	100.0	90.5	138.3	97.0	131.0	85.1	81.4	86.3	95.7	39.9	30
99.7	122.6	56.2	---	41.5	96.3	86.8	144.7	105.1	128.7	78.1	84.7	85.7	95.0	89.3	31
83.6	126.1	48.4	---	35.8	96.6	87.0	152.9	95.0	128.2	74.7	81.9	84.9	90.6	87.1	32
82.3	124.3	49.1	---	36.3	95.7	86.0	146.4	91.4	124.1	75.1	85.4	86.1	89.7	87.3	33
84.1	124.2	51.4	---	38.0	96.2	87.2	150.4	100.4	117.6	74.7	80.3	87.6	90.1	88.4	34
96.5	122.6	57.1	---	42.0	96.5	87.9	156.4	107.7	119.2	82.0	88.3	80.5	96.0	86 6	35
94.3	123.7	59.3	---	43.8	97.8	89.4	137.6	110.9	121.8	83.2	91.0	85.5	96.2	89.7	36
103.3	123.2	62.7	5.5	47.8	98.8	90.9	136.6	107.5	118.0	81.0	87.6	84.9	97.0	89.7	37
98.4	124.9	67.0	5.5	51.0	100.9	93.1	138.7	113.8	119.4	80.2	94.8	84.8	97.5	89.9	38
105.9	130.9	69.3	6.8	53.0	105.7	98.1	131.2	115.9	118.5	85.9	97.4	88.1	100.3	92.9	39
104.5	130.4	74.8	8.2	57.5	106.8	99.5	126.5	117.2	120.1	85.9	100.8	91.0	100.7	94.8	40
105.6	129.1	79.5	9.6	61.3	107.3	100.0	133.7	114.2	120.9	93.5	104.5	92.3	103.6	96.7	41
93.7	133.8	84.8	15.1	66.7	112.1	104.8	135.9	119.7	121.9	82.7	86.4	93.5	99.2	95.6	42
83.9	139.0	78.8	9.6	60.8	113.8	105.1	136.9	109.3	135.0	76.7	81.2	96.2	98.7	97.0	43
95.8	146.8	74.4	21.9	60.8	118.9	111.0	144.6	113.9	123.5	84.1	95.7	98.4	103.0	100.1	44
101.1	150.4	90.2	26.0	73.7	125.6	117.6	128.9	116.2	130.5	69.5	99.8	99.4	104.0	101.0	45
111.1	139.1	102.0	27.4	82.8	121.2	114.5	128.4	110.6	128.3	73.8	121.8	101.6	106 6	103.5	46
108.2	127.2	90.1	35.6	76.1	111.0	105.4	126.2	103.5	115.1	93.8	108.0	100.0	103.8	101.4	47
104.3	124.8	82.7	41.1	72.1	107.9	103.8	104.6	109.1	113.6	89.5	112.4	96.0	101.7	98.1	48
103.9	117.9	86.1	41.1	74.5	104.3	100.6	108.8	105.9	113.1	90.9	114.7	96.1	101.5	98.1	49
99.5	114.0	92.6	46.6	80.9	104.0	100.6	105.0	116.9	112.1	101.2	102.7	97.6	102.5	99.4	50
101.7	111.3	92.9	58.9	84.3	103.4	100.3	105.2	106.1	114.8	94.1	104.7	95.8	100.8	97.6	51
104 0	108.3	93.6	72.6	88.4	103.0	100.7	94.6	105.4	112.7	97.5	105.2	98.1	102.1	99.5	52
102.4	106.3	96.3	74.0	90.8	101.8	100.1	100.2	102.3	110.2	97.2	106.9	100.0	101.6	100.5	53
101.4	104.0	93.2	80.8	90.3	100.2	98.9	99.9	100.3	108.0	99.2	95.4	100.2	100.9	100.4	54
100.9	104.1	97.9	90.4	96.3	101.8	100.8	101.4	96.8	102.2	100.0	96.3	101.7	100.4	101.1	55
101.5	102.9	99.4	94.0	98.2	101.6	100.8	96.8	102.9	100.8	101.3	101.2	103.6	100.6	102.3	56
101.5	102.3	98.7	95.6	98.0	101.0	100.5	97.9	98.4	99.2	98.0	100.3	100.6	99.6	100.2	57
97.8	99.3	100.9	101.6	101.1	99.8	99.9	97.3	98.0	100.8	100.9	97.8	98.5	99.4	98.9	58
100.7	98.4	100.4	102.8	100.9	99.2	99.5	104.8	103.6	100.0	101.1	101.9	100.9	101.0	101.0	59
101.1	100.3	100.5	106.4	101.8	100.5	101.0	108.8	100.7	99.1	102.1	100.7	99.9	101.6	100.7	60
98.4	98.7	101.0	105.8	102.1	99.7	100.5	110.2	104.5	98.3	102.2	102.3	99.6	101.1	100.3	61
97.9	96.1	105.0	113.8	106.9	99.2	100.1	114.0	100.0	96.7	102.7	103.8	99.9	101.1	100.4	62
90.8	95.9	105.7	110.9	106.8	99.1	100.2	118.7	107.5	97.4	102.4	105.8	101.2	100.8	101.0	63

in table 5), combined into indexes using average retail prices in 1947-49 through 1954 and prices in 1957-59 beginning with 1955

table 24.

condensed milk.

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Table 2.--Per capita food consumption index: Price weights and relative importance of items, 1947-49 and 1957-59

Food or food group	1947-49					1957-59				
	Retail price per pound	Per capita consumption 1/	Value aggregate 2/	Relative importance: Food group	Relative importance: All food	Retail price per pound	Per capita consumption 1/	Value aggregate 2/	Relative importance: Food group	Relative importance: All food
	Cents	Pounds	Dollars	Percent	Percent	Cents	Pounds	Dollars	Percent	Percent
Meat, fish and poultry										
Meat										
Beef	61.8	51.8	32.0124	31.4	9.9	69.6	62.9	43.7784	38.8	11.8
Veal	57.8	8.8	5.0864	5.0	1.6	73.9	6.1	4.5079	4.0	1.2
Lamb and mutton	63.9	4.3	2.7477	2.7	.8	71.3	3.9	2.7807	2.5	.7
Pork	51.2	63.6	32.5632	31.9	10.1	57.0	58.5	33.3450	29.6	9.0
Edible offal	58.0	10.6	6.1480	6.0	1.9	57.8	10.1	5.8378	5.2	1.6
Total meat			78.5577	77.0	24.3			90.2498	80.1	24.3
Fish										
Fresh and frozen	70.0	6.0	4.2000	4.1	1.3	60.9	5.7	3.4713	3.1	1.0
Canned	78.6	3.9	3.0654	3.0	.9	72.1	4.2	3.0282	2.7	.8
Cured	72.0	.6	.4320	.4	.1	66.0	.6	.3960	.3	.1
Total fish			7.6974	7.5	2.3			6.8955	6.1	1.9
Poultry										
Chicken	69.4	18.7	12.9778	12.7	4.0	45.1	27.5	12.4025	11.0	3.3
Turkey	85.5	3.3	2.8215	2.8	.9	52.9	6.0	3.1740	2.8	.9
Total poultry			15.7993	15.5	4.9			15.5765	13.8	4.2
Total meat, fish and poultry			102.0544	100.0	31.5			112.7218	100.0	30.4
Eggs	43.2	47.3	20.4336	100.0	6.3	36.2	45.2	16.3524	100.0	4.4
Dairy products										
Fluid whole milk	9.3	299	27.8070	52.1	8.6	11.4	298	33.9720	52.7	9.1
Fluid low-fat milks	6.1	35.6	2.1716	4.1	.7	10.0	26.7	2.6700	4.1	.7
Fluid cream	40.0	12.9	5.1600	9.7	1.6	50.3	9.4	4.7282	7.3	1.3
Cheese	58.3	7.0	4.0810	7.6	1.3	72.4	7.9	5.7196	8.9	1.5
Condensed and evaporated milk 3/	15.6	18.8	2.9328	5.5	.9	---	---	---	---	---
Condensed 3/	---	---	---	---	---	21.3	1.1	.2343	.4	.1
Evaporated	---	---	---	---	---	16.6	12.4	2.0584	3.2	.6
Ice cream	52.8	18.7	9.8736	18.4	3.0	49.3	18.2	8.9726	13.9	2.4
Other frozen desserts, excluding mellorine	---	---	---	---	---	45.6	5.4	2.4624	3.8	.7
Nonfat dry milk 3/	25.0	2.5	.6250	1.2	.2	46.9	4.5	2.1105	3.3	.6
Dry whole milk	---	---	---	---	---	47.6	.3	.1428	.2	4/
Cottage cheese	25.6	2.9	.7424	1.4	.2	31.4	4.6	1.4444	2.2	.4
Total: Excluding butter			53.3934	100.0	16.5			64.5152	100.0	17.4
Including butter			61.3392					70.3340		
Fats and oils										
Butter 3/	77.9	10.2	7.9458	37.9	2.5	74.6	7.8	5.8188	32.1	1.6
Lard	27.0	12.4	3.3480	16.0	1.0	21.7	9.3	2.0181	11.2	.5
Margarine	37.7	5.6	2.1112	10.1	.7	29.1	8.9	2.5899	14.3	.7
Shortening	38.7	9.6	3.7152	17.7	1.1	31.2	11.4	3.5568	19.6	1.0
Other edible fats and oils	52.7	7.3	3.8471	18.3	1.2	38.3	10.8	4.1364	22.8	1.1
Total: Including butter			20.9673	100.0	6.5			18.1200	100.0	4.9
Excluding butter			13.0215					12.3012		
Fruit, excluding melons										
Fresh										
Oranges	9.0	35.8	3.2220	14.0	1.0	14.6	18.9	2.7594	4.3	.7
Tangerines and tangelos						14.8	1.7	.2516	.8	.1
Grapefruit	7.3	11.8	.8614	3.7	.3	11.8	8.8	1.0384	3.5	.3
Lemons and limes	17.2	4.4	.7568	3.3	.2	18.8	3.1	.5828	2.0	.2
Apples	11.6	31.7	3.6772	16.0	1.1	15.1	21.9	3.3060	11.2	.9
Bananas	15.9	16.4	3.2595	14.2	1.0	17.2	16.5	2.9068	9.8	.8
Grapes	14.0	5.3	.7420	3.2	.2	25.6	3.6	.9216	3.1	.2
Peaches	11.0	11.2	1.2320	5.4	.4	16.8	8.9	1.4952	5.1	.4
Pears	14.9	4.8	.7152	3.1	.2	18.9	3.2	.6048	2.0	.2
Strawberries	---	---	---	---	---	39.9	1.4	.5586	1.9	.1
Other	13.5	6.5	.8775	3.8	.3	27.8	3.9	1.0842	3.7	.3
Total fresh			15.3436	66.7	4.7			15.5103	52.4	4.2
Canned fruit										
Apples and applesauce	14.7	1.9	.2793	1.2	.1	18.0	3.2	.5760	1.9	.2
Apricots	19.0	1.0	.1900	.8	.1	---	---	---	---	---
Cherries	---	---	---	---	---	25.2	1.3	.3276	1.1	.1
Citrus segments	---	---	---	---	---	22.1	.9	.1989	.7	.1
Cranberries	---	---	---	---	---	24.1	.8	.1928	.7	4/
Fruit cocktail	21.5	2.2	.4730	2.1	.1	14.2	2.6	.3692	1.2	.1
Peaches	17.4	4.7	.8178	3.6	.2	19.2	5.8	1.1136	3.8	.3
Pears	19.8	1.3	.2574	1.1	.1	24.1	1.9	.4579	1.6	.1
Pineapple	19.6	3.4	.6664	2.9	.2	27.2	3.3	.8976	3.0	.2
Other	18.9	4.5	.8505	3.7	.3	21.5	2.6	.5590	1.9	.2
Total canned fruit			3.5344	15.4	1.1			4.6926	15.9	1.3
Canned fruit juice										
Orange	12.0	4.3	.5160	2.2	.1	14.5	2.3	.3335	1.1	.1
Grapefruit	8.8	3.3	.2904	1.3	.1	11.3	1.7	.1921	.7	.1
Blended citrus	11.0	2.1	.2310	1.0	.1	---	---	---	---	---
Pineapple	---	---	---	---	---	10.6	3.4	.3604	1.2	.1
Other	15.4	6.1	.9394	4.1	.3	25.9	6.4	1.6576	5.6	.4
Total canned juice			1.9768	8.6	.6			2.5436	8.6	.7

Continued -

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Table 2.--Per capita food consumption index: Price weights and relative importance of items, 1947-49 and 1957-59 -Continued

Food or food group	1947-49					1957-59				
	Retail price per pound	Per capita consumption 1/	Value aggregate 2/	Relative importance: Food group	Relative importance: All food	Retail price per pound	Per capita consumption 1/	Value aggregate 2/	Relative importance: Food group	Relative importance: All food
	Cents	Pounds	Dollars	Percent	Percent	Cents	Pounds	Dollars	Percent	Percent
Fruit, excluding melons: -Continued										
Chilled fruit and juice										
Fruit	---	---	---	---	---	26.3	0.2	0.0526	0.2	4/
Juice	---	---	---	---	---	26.8	1.8	.4824	1.6	0.1
Total chilled								.5350	1.8	.1
Frozen fruit and juice										
Orange juice	54.4	0.4	0.2176	0.9	0.1	63.2	3.9	2.4648	8.3	.7
Other citrus juice						50.7	1.1	.5577	1.9	.2
Strawberries						42.2	1.4	.5908	2.0	.2
Peaches	35.0	2.9	1.0150	4.4	.3	41.5	.2	.0830	.3	4/
Raspberries						53.3	.2	.1066	.4	4/
Other						69.1	1.8	1.2438	4.1	.3
Total frozen			1.2326	5.3	.4			5.2467	17.0	1.4
Dried fruit										
Prunes	23.3	.9	.2097	.9	.1	35.9	.8	.2872	1.0	.1
Raisins	19.4	1.8	.3492	1.5	.1	32.2	1.5	.4845	1.6	.1
Other	30.0	1.2	.3600	1.6	.1	50.4	1.0	.5040	1.7	.1
Total dried			.9189	4.0	.3			1.2757	4.3	.3
Total fruits			23.0062	100.0	7.1			29.6839	100.0	8.0
Melons:										
Cantaloups	7.3	8.1	.5913	40.2	.2	12.8	7.3	.9344	45.1	.3
Watermelons	3.0	15.5	.4650	31.7	.1	5.1	15.0	.7650	37.0	.2
Home garden	3.9	10.6	.4134	28.1	.1	6.5	5.7	.3705	17.9	.1
Total			1.4697	100.0	.4			2.0699	100.0	.6
Vegetables, excluding potatoes										
Fresh										
Asparagus	---	---	---	---	---	29.0	.7	.2030	.5	.1
Beans, snap	20.7	3.6	.7452	2.4	.2	24.6	2.5	.6150	1.6	.2
Broccoli	---	---	---	---	---	24.6	.4	.0984	.3	4/
Cabbage	6.2	13.7	.8494	2.7	.3	9.0	9.5	.8550	2.2	.2
Carrots	11.1	7.9	.8769	2.8	.3	14.7	6.8	.9996	2.6	.3
Cauliflower	---	---	---	---	---	20.0	1.2	.2400	.6	.1
Celery	18.2	7.1	1.2922	4.1	.4	15.1	7.3	1.1023	2.9	.3
Corn	6.3	6.9	.4347	1.4	.1	10.7	7.4	.7918	2.1	.2
Lettuce	13.7	15.1	2.0687	6.5	.6	14.1	17.3	2.4393	6.4	.7
Onions and shallots	9.0	10.2	.9180	2.9	.3	10.3	10.6	1.0918	2.8	.3
Spinach	12.9	1.5	.1935	.6	.1	38.6	.9	.3474	.9	.1
Tomatoes	13.6	10.3	1.4008	4.4	.4	30.4	10.1	3.0704	8.0	.8
Other	16.0	25.2	4.0320	12.7	1.2	21.0	18.3	3.8430	10.0	1.0
Home-garden produce	13.4	81.9	10.9746	34.6	3.4	20.4	57.0	11.6280	30.3	3.1
Total fresh			23.7860	75.1	7.3			27.3250	71.2	7.4
Canned										
Asparagus	---	---	---	---	---	38.6	.8	.3088	.8	.1
Beans, green	16.2	2.8	.4536	1.4	.1	23.2	4.1	.9512	2.5	.3
Beans, lima	---	---	---	---	---	28.2	.4	.1128	.3	4/
Beets	13.5	1.1	.1485	.5	4/	---	---	---	---	---
Corn	15.7	5.2	.8164	2.6	.3	17.6	5.3	.9328	2.4	.2
Peas	12.2	5.7	.6954	2.2	.2	16.8	4.8	.8064	2.1	.2
Pickles	27.5	3.4	.9350	2.9	.3	28.4	4.0	1.1360	3.0	.3
Spinach	15.3	1.1	.1683	.5	.1	18.9	1.0	.1890	.5	4/
Tomatoes, whole	14.5	4.3	.6235	2.0	.2	13.3	4.6	.6118	1.6	.2
Tomato catsup and chili sauce	25.7	2.5	.6425	2.0	.2	25.6	3.5	.8960	2.3	.2
Tomato paste, pulp, and puree	21.2	3.3	.6996	2.2	.2	---	---	---	---	---
Vegetable juices	9.6	4.2	.4032	1.3	.1	11.1	5.0	.5550	1.4	.2
Other	21.3	5.6	1.1928	3.8	.4	22.6	9.5	2.1470	5.6	.6
Total canned			6.7788	21.4	2.1			8.6488	22.5	2.3
Frozen										
Asparagus						77.1	.2	.1542	.4	4/
Beans, green						39.8	.8	.3184	.8	.1
Beans, lima						43.8	.7	.3066	.8	.1
Broccoli						42.6	.5	.2130	.5	.1
Brussels sprouts	38.0	2.9	1.1020	3.5	.3	52.7	.2	.1054	.3	4/
Cauliflower						43.4	.2	.0868	.3	4/
Corn						32.7	.7	.2289	.6	.1
Peas						31.5	1.6	.5040	1.3	.1
Spinach						29.9	.6	.1794	.5	4/
Other						28.4	1.1	.3124	.8	.1
Total frozen			1.1020	3.5	.3			2.4091	6.3	.6
Total vegetables			31.6668	100.0	9.7			38.3809	100.0	10.3
Soup and baby food										
Canned baby food	32.0	3.2	1.0240	32.5	.3	33.7	4.6	1.5502	36.8	.4
Canned soup	22.6	9.4	2.1244	67.5	.7	18.6	14.3	2.6598	63.2	.7
Total			3.1484	100.0	1.0			4.2100	100.0	1.1

Continued -

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Table 2.--Per capita food consumption index: Price weights and relative importance of items, 1947-49 and 1957-59 -Continued

Food or food group	1947-49					1957-59				
	Retail price per pound	Per capita consumption 1/	Value aggregate 2/	Relative importance: Food group	Relative importance: All food	Retail price per pound	Per capita consumption 1/	Value aggregate 2/	Relative importance: Food group	Relative importance: All food
	Cents	Pounds	Dollars	Percent	Percent	Cents	Pounds	Dollars	Percent	Percent
Potatoes and sweetpotatoes										
Potatoes										
Fresh	5.3	106.0	5.6180	80.4	1.8	6.1	84.2	5.1362	48.4	1.4
Chips and dehydrated (fresh equivalent)						27.0	13.0	3.5100	33.1	.9
Canned	---	---	---	---	---	13.4	.4	.0536	.5	4/
Frozen products	---	---	---	---	---	32.8	1.6	.5248	4.9	.1
Sweetpotatoes										
Fresh	9.6	10.8	1.0368	14.8	.3	14.8	6.3	.9324	8.8	.3
Canned	---	---	---	---	---	21.6	1.0	.2160	2.0	.1
Home-garden produce	5.9	5.7	.3363	4.8	.1	7.1	3.4	.2414	2.3	.1
Total			6.9911	100.0	2.2			10.6144	100.0	2.9
Beans, peas, nuts										
Dry edible beans	28.9	6.7	1.9363	27.2	.6	22.5	7.7	1.7325	26.8	.5
Dry field peas	23.1	.6	.1386	2.0	4/	22.0	.6	.1320	2.1	4/
Peanuts	45.0	4.4	1.9800	27.9	.6	48.8	4.6	2.2448	34.7	.6
Treenuts and coconut	103.4	2.4	2.4816	34.9	.8	104.6	2.2	2.3012	35.6	.6
Home-garden beans and peas	28.5	2.0	.5700	8.0	.2	17.6	.3	.0528	.8	4/
Total			7.1065	100.0	2.2			6.4633	100.0	1.7
Cereal products										
White and whole wheat flour	14.5	5/131.1	19.0095	79.4	5.9	18.4	5/115.0	21.1600	77.2	5.7
Retailed in processed products	18.5	---	---	---	---	22.0	---	---	---	---
Retailed in mixes	12.6	---	---	---	---	14.1	---	---	---	---
Other	8.4	---	---	---	---	11.0	---	---	---	---
Semolina and durum flour	19.9	6.3	1.2537	5.2	.4	23.0	5.1	1.1730	4.3	.3
Wheat cereal	23.0	3.2	.7360	3.1	.2	33.7	2.8	.9436	3.4	.2
Rye flour	18.5	1.4	.2590	1.1	.1	27.6	1.2	.3312	1.2	.1
Rice	17.9	4.9	.8771	3.7	.3	20.4	5.6	1.1424	4.2	.3
Cornmeal and flour	7.7	12.9	.9933	4.2	.3	12.9	7.7	.9933	3.6	.3
Corn cereal	24.5	1.5	.3675	1.5	.1	32.9	1.8	.5922	2.2	.2
Hominy	---	---	---	---	---	12.0	3.5	.4200	1.5	.1
Oat food products	13.0	3.3	.4290	1.8	.1	19.6	3.4	.6664	2.4	.2
Total			23.9251	100.0	7.4			27.4221	100.0	7.4
Sugars and sweeteners										
Sugars (excluding duplication) 6/	20.4	5/91.9	18.7476	92.3	5.8	26.8	5/91.9	24.6292	91.1	6.6
Retailed in processed products	40.0	---	---	---	---	44.3	---	---	---	---
Other	9.8	---	---	---	---	11.2	---	---	---	---
Corn sirup	12.3	12.7	1.5621	7.7	.5	17.1	9.4	1.6074	5.9	.4
Other sweeteners 7/						24.4	1.1	.2684	1.0	.1
Honey	---	---	---	---	---	40.7	1.3	.5291	2.0	.2
Total			20.3097	100.0	6.3			27.0341	100.0	7.3
Coffee, tea, cocoa										
Coffee beans	8/43.0	18.2	7.8260	84.3	2.5	---	---	---	---	---
Regular coffee	---	---	---	---	---	81.9	10.9	8.9271	67.8	2.4
Instant coffee	---	---	---	---	---	301.5	.7	2.1105	16.0	.6
Tea	124.0	.6	.7440	8.0	.2	159.2	.6	.9552	7.3	.3
Chocolate products 9/	17.5	4.1	.7175	7.7	.2	45.0	2.6	1.1700	8.9	.3
Total			9.2875	100.0	2.9			13.1628	100.0	3.6
All food			323.7598		100.0			370.6838		100.0

1/ Retail weight equivalent.

2/ Value aggregates derived by multiplying average quantities of individual foods by retail prices; 1947-49 average prices used through 1954, 1957-59 prices thereafter. In computing the index, value aggregates for each of the three years in the two periods were averaged.

3/ Excludes quantities used in other dairy products.

4/ Less than 0.05 percent.

5/ Weighted average of processed and nonprocessed products. See p. 13 for estimated product proportions, derived from Census of Manufactures data, used in computing the index.

6/ Cane, beet, and corn sugars; excludes amounts used in frozen and canned fruits and juices, canned vegetables, condensed milk, and frozen dairy desserts.

7/ Refiners sirup excluded in 1947-49 data.

8/ Price of roasted coffee adjusted to green bean equivalent.

9/ For 1947-49 quantity is in terms of cocoa beans and retail price of cocoa powder is adjusted to a bean basis. For 1957-59, quantity is in terms of chocolate liquor and retail price on this basis is estimated from cocoa powder and butter prices.

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Table 3.--Per capita food consumption index: Relative importance of major food groups, selected periods 1/

Commodity	1909-13	1925-29	1935-39	1942-45	1947-49	1955 in terms of 1947-49 prices	1955 in terms of 1957-59 prices	1957-59	1963 2/
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Total food	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Animal products	59.4	57.5	55.7	58.0	58.0	59.6	54.9	54.6	54.8
Crop products	40.6	42.5	44.3	42.0	42.0	40.4	45.1	45.4	45.2
Meat, fish, poultry -- total	34.3	30.8	29.4	31.8	31.5	34.0	30.5	30.4	32.0
Meats	27.4	24.0	22.7	24.4	24.3	25.9	25.4	24.3	25.4
Fish	2.9	2.9	2.8	2.0	2.3	2.3	1.8	1.9	1.9
Poultry	4.0	3.9	3.9	5.4	4.9	5.8	3.3	4.2	4.7
Eggs	5.6	5.9	5.3	5.7	6.3	6.1	4.5	4.4	3.9
Dairy products:									
Including butter	18.4	19.6	19.8	19.6	19.0	18.3	19.1	19.0	18.1
Excluding butter	13.6	14.9	15.3	16.4	16.5	16.2	17.3	17.4	16.8
Fats and oils:									
Total, excluding butter	2.7	3.6	4.1	3.7	4.0	4.7	3.2	3.3	3.6
Total, including butter	7.5	8.3	8.6	6.7	6.5	6.8	5.0	4.9	4.9
Animal fats	5.9	6.0	5.6	4.1	3.7	3.3	2.5	2.4	2.1
Vegetable oils	1.6	2.3	3.0	2.6	2.8	3.5	2.5	2.5	2.8
Fruit -- total excluding melons	6.2	6.7	7.2	6.1	7.1	6.7	8.0	8.0	7.1
Fresh, excluding melons	5.6	5.4	5.5	4.4	4.7	3.4	4.2	4.2	3.4
Canned fruit	.2	.8	.9	.8	1.1	1.3	1.3	1.3	1.3
Canned juices	3/	3/	.2	.3	.6	.6	.6	.7	.7
Chilled fruit and juice	---	---	---	---	---	3/	.1	.1	.1
Frozen fruit	---	3/	.1	.2	.3	.5	.6	.5	.6
Frozen juices	0	0	0	0	.1	.7	.8	.9	.7
Dried	.4	.5	.5	.4	.3	.2	.4	.3	.3
Melons	.6	.6	.5	.4	.4	.4	.6	.6	.5
Vegetables -- total	9.3	9.8	10.6	11.4	9.7	9.1	10.4	10.3	10.1
Fresh	8.3	8.4	8.9	9.2	7.3	6.0	7.5	7.4	7.0
Canned 4/	1.0	1.4	1.7	2.0	2.1	2.3	2.3	2.3	2.4
Frozen 4/	---	---	3/	.2	.3	.8	.6	.6	.7
Baby food and soup	3/	.2	.5	.7	1.0	1.2	1.0	1.1	1.3
Potatoes and sweetpotatoes 4/	4.0	3.1	2.8	2.5	2.2	1.9	2.9	2.9	3.4
Dry beans, peas, and nuts	2.0	2.2	2.5	2.4	2.2	2.0	1.7	1.7	1.8
Cereal products	10.7	9.3	8.5	8.3	7.4	6.5	7.4	7.4	7.1
Sugars and sweeteners	4.3	6.0	6.2	5.3	6.3	6.7	7.3	7.3	7.4
Coffee, tea, and cocoa	1.9	2.2	2.6	2.3	2.9	2.4	3.4	3.6	3.7

1/ Individual food items combined in terms of 1947-49 average retail prices through 1954; 1957-59 prices thereafter. Differences in relative importance for 1955, the index "link" point, are caused by (1) price changes between base periods, (2) quantity changes for meat and fresh produce resulting from incorporation of new marketing loss factors, (3) small changes in coverage for potato products, sweeteners, dairy products, cereal products, and (4) revisions in consumption estimates for fish, coffee, and cocoa. 2/ Preliminary. 3/ Less than 0.05 percent. 4/ Canned and frozen potatoes and sweetpotatoes included with vegetables prior to the revision beginning 1955.

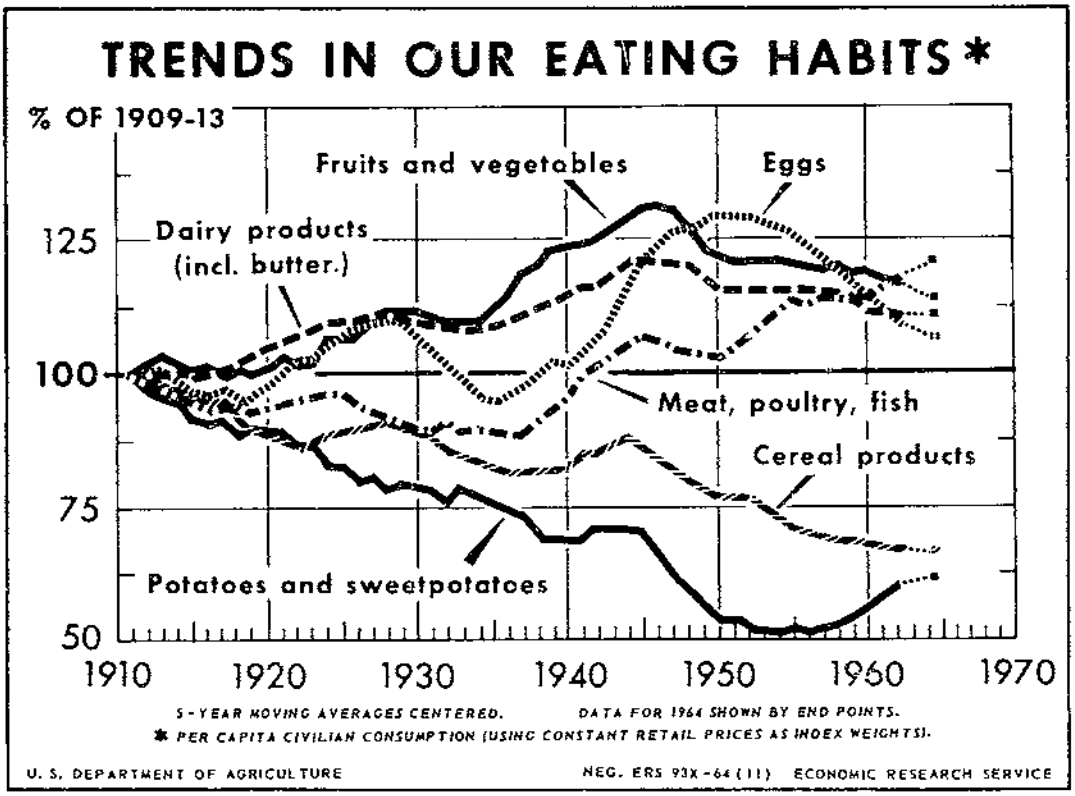

FIGURE 2

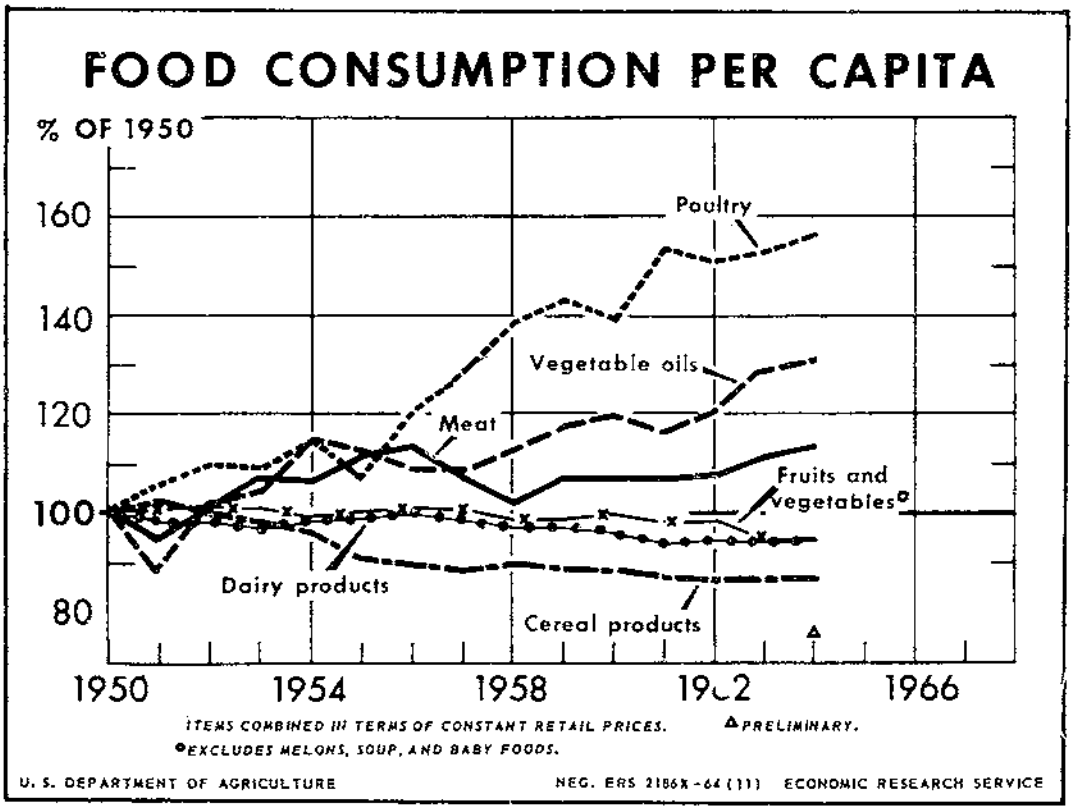

FIGURE 3

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Some minor changes occurred in treatment of certain dairy products. Dry whole milk and frozen dairy desserts other than ice cream were added for the first time. In addition, condensed and evaporated milk now are weighted separately in the index. Addition of fairly new dairy products, with pronounced upward consumption trends, slightly increased the relative importance of dairy products in the index. It also modified the postwar decline in per capita consumption of total dairy products.

Food items are weighted individually in the index by their retail price in the base period whenever possible. Estimates of the increasing proportions of sugar and flour consumed in processed products were made using census information. Consumption in products is priced separately from that used in primary form in computing the index. The following estimates are used for the specified years:

Flour consumed in products		Sugar consumed in products	
Period	Percent	Period	Percent
1909-19	25	1909-23	15
1920-24	30	1924-34	20
1925-29	35	1935-39	25
1930-39	40	1940-45	30
1940-42	45	1946-50	35
1943-46	55	1951-54	42
1947-50	60	1955 to date	47
1951-54	1/71		
1955 to date	1/72		

1/ Includes 8 percent of total flour retailed in mixes.

Consumption of processed potatoes has increased so rapidly in recent years that their use has more than compensated for the decline in fresh potatoes. For this reason, beginning with 1955, frozen and canned potatoes were included with those consumed in other forms rather than with other processed vegetables. Though consumption of dehydrated potatoes and those used in chips is not shown separately from fresh use, estimates of consumption were priced separately since 1955 in computing the index. This separate pricing substantially increased the importance of potatoes in the index.

Melons, soup, and vegetable baby food were also separated from the vegetable group, both in the consumption tables and in the index. To match the nutrient data, however, an index is shown that gives the total of vegetables, soup, and baby food. Baby food was also separated from fruits. But again, the total of fruits, fruit baby food, and melons is given for consistency with the nutrient data. Despite the separation of groups that were trending strongly upward, the relative importance of both the fruits and vegetables groups increased as a result of increased prices between the two base periods. Another change involved the separate pricing of chilled fruits and juices and many individual frozen fruits and vegetables.

The group of sugars and other sweeteners was revised to include refiners' sirup and honey and to treat corn sirup separately. As before, this group excludes sugars and other sweeteners contained in processed fruits and vegetables, sweetened condensed milk, and frozen dairy products.

Regular and instant coffee now are handled separately in the index. This change and increases in retail prices were sufficient to augment the importance of coffee in the index, even though per capita consumption has declined. A change in method of pricing chocolate products was sufficiently large to increase their importance. This increase occurred despite a downward revision in per capita consumption which resulted from a change in method of totaling foreign trade in cocoa products.

Addition of Alaska and Hawaii

Beginning with 1960, the first full year of Statehood for Alaska and Hawaii, the index is on a 50-State basis. Addition of consumption in Alaska and Hawaii had no important effect on the all-food index, but consumption of certain individual products was affected slightly. Though estimates of the major food inshipments to the

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48 States from these areas were included in U. S. supplies prior to 1960, lack of reported data since 1948 had not allowed deduction of most outshipments from U. S. supplies. Per capita consumption data now are reduced slightly for many items because of the allocation of about the same total food among more people. The incorporation of Alaska and Hawaii, then, improves data for total U. S. consumption.

Purpose and Implications of the Index

The per capita food consumption index measures changes in the total quantity of food consumed. But food is combined in the all-food index using index weights that include the value of processing, transportation, storage, and other marketing resources (services) necessary to get raw farm products to the check-out counters of retail food stores. Changes in marketing influence the index primarily through their effects upon shifts in consumption among foods and effects upon relative prices (index weights) between base periods.

The index reflects the result of shifts in consumption among individual products, in addition to changes in total consumption. Shifts among foods probably have had more effect on the index than changes in per capita consumption of total food. An increase in consumption of 1 pound of relatively high-priced food (meat, for example) and an accompanying decrease of 1 pound of a relatively low-priced food (flour, for example) would result in an increase in the index. This feature of the index, which reflects use of marketing services and other resources going into food, is preferred for most economic analyses to alternative weighting schemes.

The index is demand-oriented. Constant retail prices in a base period are used to weight the index so each product is assigned a value in the index according to the relative importance attached to that product by the consumer. In addition, the higher unit-value foods generally require more resources to produce. Thus, to the extent that costs of production and marketing are reflected in relative retail prices in the base period, the index also shows changes in use of farm and nonfarm resources that go into the food that is consumed. This correlation is only approximate since it may ignore variations in output due to changes in yield or efficiency--particularly if competition is imperfect.

Use of constant prices means that only changes in quantity bring about changes in the trend of the index. The trend does not follow changes in total expenditures, which would require continually changing prices as well as changing quantities. Shifting to a new price base alters the trend in the new period according to the revised weights; only the level of the index in the earlier period is shifted, however, because of the "linking" procedure followed.

The necessity of measuring primary or intermediate products rather than final retail products complicates the derivation of food at the retail level. Unless processed and unprocessed quantities are priced separately, the procedure may give processed products unrealistic price weights in the consumption index by omitting the value of final processing. Such a procedure also omits weight changes that may take place beyond the primary level. Besides foods which are measured in processed form, such as fruits and vegetables, quantities of potatoes, flour, and sugar consumed in processed products are priced separately. No distinctions were made, however, for several products for which processed uses were less important. Even fruits and vegetables may not always be measured in the form sold at retail. For example, some fruits measured in frozen form are sold at retail as pie filling.

Changes in the quality of products and in the form of foods that do not entail changes sufficient to price them as different products sometimes are reflected in the index if they take place subsequent to the primary level. Such changes that affect the physical conversion of basic ingredients may be detected and introduced by using new factors in converting from primary to retail weights. Price changes associated with changes in quality and processing affect the index only when shifting from one base period to another--that is, at a time when relative

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weights are adjusted. When price changes are pronounced, a Pashe form of index weighting, which employs current-year price weights, would perhaps be preferable to the Laspeyres index form now used.

A sizable portion of total food consumed does not pass through retail food stores. Since retail store prices and retail -equivalent quantities are used, changes in marketing costs (or value added) associated with the switch to buying more food as meals in restaurants rather than for home use are not reflected in relative price weights in the index.

Comparison with Other Indexes

An index that would show changes in the aggregate number of pounds of food consumed would substitute a weighting system of pounds and ounces for one of dollars and cents. The pounds system would imply that a pound of meat and a pound of cornmeal consumed as food have the same relative importance. Such a system would place an additional burden on conversion of food products to equivalent weights both among products in an all-food index and over time. The trend in recent years toward marketing foods in more and more highly processed form has resulted in transferring many weight losses that previously occurred at home to the marketing system. More concentrated retail products mean less weight sold at retail, but such a trend can be consistent with an increase in consumption of primary products. Consumption based on poundage shows a decline in postwar years, whereas the price-weighted index rises slightly during the same period. Consumption of foods that have high values per pound has tended to increase and consumption of low-value foods to decrease.

If the objective is to measure food consumption in terms of raw farm products rather than the retail store level, another index may be more appropriate. The food component of the supply-utilization index traces the entire supply and utilization of all farm commodities (table 4 and chapter 7)(3). Farm rather than retail prices are used as quantity weights in this index. Such a definition of food is supply- rather than demand-oriented. Effects of

Table 4.--Per capita civilian food use of farm commodities, 1924-63 1/

Year	Index, 1957-59=100	Year	Index, 1957-59=100	Year	Index, 1957-59=100
1924	94.4	1938	90.3	1952	99.4
1925	93.9	1939	93.6	1953	100.4
1926	94.5	1940	96.1	1954	99.9
1927	92.6	1941	97.5	1955	101.7
1928	92.1	1942	96.8	1956	103.0
1929	92.8	1943	99.5	1957	100.7
1930	92.0	1944	102.9	1958	98.8
1931	92.2	1945	103.9	1959	100.6
1932	90.1	1946	106.1	1960	100.1
1933	90.2	1947	102.7	1961	100.4
1934	91.6	1948	98.3	1962 2/	100.0
1935	87.7	1949	98.0	1963 2/ 3/	101.8
1936	90.7	1950	98.7		
1937	91.7	1951	97.5		

1/ Quantities of farm commodities used for civilian food combined in terms of farm prices in 1957-59 beginning 1955, earlier years in terms of 1947-49 farm prices; nondomestic items are combined using import prices in the 2 periods. Data are linked at 1955. See chapter 7 for entire index of supply-utilization of farm commodities.
2/ Includes Alaska and Hawaii.
3/ Preliminary.

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increased processing and costs of marketing are not reflected in the weighting system of this index. Since consumption of processed products has increased (101) and many of these products have high and rising costs of marketing--particularly in postwar years--this index has not shown as much upward trend as that of per capita food consumption measured at the retail level. Total food consumption measured at the farm level increases about in line with the rise in population; on a per capita basis, it is not much more than steady.

The nutrient content of food is another basis of aggregating food. However, no satisfactory method of weighting the various nutrients to give a single nutritional index has as yet been devised. Total calories and amounts of selected nutrients provided by the per capita consumption estimates are given in table 35, chapter 5. Such estimates provide a basis for measuring the net effect of shifts in consumption of different kinds of foods.

Perhaps in the future data can be further refined beyond the retail store level. Much more needs to be known about consumption in restaurants, institutions, and other away-from-home eating places. In addition to the new weight loss factors, meal prices or some other common denominator would be necessary for combining quantities eaten. The forthcoming 1965 national household food consumption survey and other proposed surveys may provide insights into these problems.

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CHAPTER 3. PER CAPITA FOOD CONSUMPTION POUNDAGES

The quantities upon which the per capita food consumption index are based are given in table 5 in summary form and in detail in the tables that follow. The summary table gives pounds of food in product weights equivalent to the form in which they are sold at retail. The commodity groupings are organized to coincide with those comprising the food consumption index. They are grouped slightly differently from those in the nutrient analysis in chapter 5 (tables 35 and 37). Duplication among food groups, such as sugar in processed foods, was avoided whenever possible.

Some changes over time in forms of marketing have resulted in reduction of pounds sold at retail, even though no change may have occurred in the pounds of primary products consumed per capita. For example, dairy products, fruits, and vegetables are given in weights equivalent to the form sold at retail. But since increased processing has taken place for these foods, the same amount of primary product is compressed into less pounds retailed. Similarly, adding pounds of instant and regular roasted coffee sold at retail results in slightly fewer pounds than would their equivalent quantities of green beans, since instant coffee compresses more beans to the pound than regular roasting.

Other aggregation problems arise when adding pounds of dissimilar products in the form of liquid, solids, and concentrated products. Consider the example of beverages: Fruit juices are measured as single-strength liquids, concentrated products, or fresh fruits depending upon how they are retailed. Fruit "drinks" and "ades" are included only to the extent of their fruit juice and sugar contents in the form in which final processors buy or otherwise receive their ingredients. Other soft drinks are not listed as such; their contents are measured in ingredient form--in pounds of sugar, for example. The new "diet" soft drinks are omitted almost entirely. Coffee and cocoa are originally measured in the form of beans, and tea in the form of leaves. Milk is measured in fluid, condensed, or dry form, depending upon how it is marketed. Alcoholic beverages are omitted entirely because they are classed as nonfoods.

As a result of these problems, the total number of pounds of food per capita given in table 5 must be carefully interpreted to avoid misleading implications from either its level or trend. The per capita food consumption index, given in the previous chapter, combines each product using its associated price in a base period. More physically concentrated or refined products usually have higher values per pound, so the index more accurately measures consumption trends for food groups. For analyses of trends for individual foods, pounds measured in equivalent weights over time may be more appropriate (tables 7-30).

The individual commodity tables show consumption of food per capita in weights at both primary and retail level. They are given side by side for ease of comparision and to emphasize their relationship. All are on a 50-State basis starting with 1960 and on a calendar-year basis unless otherwise noted. The primary level is the point in the production or marketing system that provides data for use in deriving the balance of supply and use or "disappearance" of various food products (chapter 6). The primary level varies from a farm-weight basis for some commodities to processed products for others. The exact point in the system at which disappearance is measured is discussed in detail by commodity groups in chapter 6; it is briefly summarized in the commodity sections of this chapter.

Conversion or average loss factors were devised to convert weights derived from a primary basis to retail-weight equivalents (table 6). Even though a large part of all food consumed is not marketed through retail food stores, the retail level is the latest point in the production-consumption channel for getting consistent average uses for an entire group of products for all seasons of the year and

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Table 5.--All food: Per capita consumption

Year	Meat, poultry, fish				Eggs	Dairy products		Fats and oils				Fruits			Melons 5/
									Including butter 4/						
	Meat 2/	Poultry	Fish 3/	Total		Including butter	Excluding butter	Excluding butter	Animal	Vegetable	Total	Fresh	Processed	Total	
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	147.7	17.2	(13.0)	177.9	35.5	378	360	(23.2)	(31.3)	(9.7)	(41.0)	123.3	7.2	130.5	40.0
1910	139.0	18.0	(13.2)	170.2	37.1	355	337	(23.6)	(31.8)	(10.1)	(41.9)	123.0	7.6	130.6	39.0
1911	144.6	18.1	(13.3)	176.0	39.9	344	325	(22.7)	(31.7)	(9.6)	(41.3)	139.1	8.4	147.5	38.0
1912	139.1	17.4	(13.3)	169.8	37.7	386	369	(22.2)	29.2	(9.6)	(38.8)	142.4	9.2	151.6	39.0
1913	136.8	16.9	(13.5)	167.2	36.8	376	360	(23.7)	27.4	(12.8)	(40.2)	118.0	8.2	127.1	38.0
1914	133.0	16.9	(13.7)	163.6	35.8	359	342	(26.5)	29.4	(14.1)	(43.5)	146.3	9.9	156.2	35.0
1915	129.5	16.8	(13.2)	159.5	37.9	357	340	(26.0)	29.1	(14.1)	(43.2)	140.7	11.2	151.9	36.0
1916	134.5	16.2	(13.0)	163.7	36.3	354	337	(24.9)	30.7	(11.5)	(42.2)	122.1	12.6	134.7	36.0
1917	129.3	15.6	(12.9)	157.8	34.1	362	347	(24.4)	28.1	(12.0)	(40.1)	118.5	14.3	132.8	36.0
1918	134.9	15.6	(12.9)	163.4	34.4	390	376	(29.3)	28.3	(15.1)	(43.4)	109.1	12.4	121.5	37.0
1919	133.7	16.6	(13.6)	163.9	36.8	369	354	(28.1)	28.1	(15.2)	(43.3)	111.0	16.9	128.8	36.4
1920	130.5	16.0	(13.8)	160.3	36.3	378	363	(24.8)	28.4	(11.3)	(39.7)	130.3	16.7	147.0	42.5
1921	128.3	15.7	(12.5)	156.5	36.4	378	362	23.2	28.5	11.0	39.5	103.7	14.0	117.7	45.2
1922	131.8	16.5	(13.3)	161.6	38.3	377	360	26.0	32.2	10.9	43.1	132.2	14.3	146.5	46.2
1923	141.4	16.8	(12.7)	170.9	39.6	366	348	26.9	34.0	10.7	44.7	132.3	14.8	147.1	38.1
1924	141.0	15.9	(13.0)	169.9	39.3	376	358	27.7	33.8	11.7	45.5	139.6	15.4	151.0	42.9
1925	138.8	16.4	(13.1)	163.3	38.6	377	359	28.7	32.2	14.6	46.8	121.2	17.8	139.0	41.8
1926	131.1	16.3	(13.4)	160.8	41.0	377	359	29.4	32.4	15.3	47.7	147.1	18.4	165.5	43.5
1927	128.7	17.4	(14.2)	160.3	41.5	376	358	29.6	32.7	15.2	47.9	116.0	19.5	135.5	38.6
1928	126.1	16.7	(14.1)	156.9	41.0	376	358	30.1	32.4	15.3	47.7	133.7	19.4	153.1	38.4
1929	125.3	16.4	13.9	155.6	40.5	381	363	31.1	32.0	16.7	48.7	128.1	18.5	146.6	40.7
1930	123.3	17.9	12.2	153.4	40.2	378	360	31.2	31.7	17.1	48.8	119.3	19.1	138.4	41.5
1931	125.0	18.2	10.8	152.2	40.4	376	358	30.0	33.5	14.8	48.3	147.0	16.4	163.4	41.3
1932	129.8	18.6	10.4	158.8	38.0	379	360	28.3	33.9	12.9	46.8	115.0	16.6	132.5	36.4
1933	130.0	17.3	10.7	158.0	36.0	377	359	28.7	33.3	13.0	46.9	114.8	18.0	132.8	35.8
1934	125.7	15.4	11.2	152.3	39.0	378	360	29.3	33.1	15.4	48.5	115.0	18.6	133.6	36.1
1935	118.9	15.4	12.5	138.8	34.0	372	354	30.5	29.1	19.0	48.1	134.2	21.8	156.0	37.5
1936	122.6	16.4	13.7	152.7	35.0	374	357	32.7	30.2	19.3	49.5	124.1	25.2	149.3	36.8
1937	119.7	16.4	13.8	149.9	37.3	377	360	32.9	28.9	20.4	49.3	142.7	24.3	167.0	38.9
1938	119.3	15.6	12.8	148.6	37.6	376	359	33.5	29.4	19.7	49.1	131.0	26.5	157.5	37.5
1939	126.6	17.1	12.7	156.6	37.9	381	364	34.9	31.7	18.6	50.3	148.5	29.5	178.1	35.9
1940	125.9	17.4	13.0	156.4	38.7	384	365	33.2	33.0	17.2	50.2	138.4	33.6	172.0	36.8
1941	137.0	18.8	13.2	169.0	37.7	383	369	35.1	32.0	19.2	51.2	146.8	31.9	178.7	34.1
1942	125.1	21.1	14.7	160.9	38.1	409	393	32.6	31.3	17.2	48.5	129.3	31.5	160.8	31.4
1943	143.3	26.1	15.4	184.8	41.6	427	415	33.2	29.7	18.3	48.0	116.0	27.0	143.0	30.8
1944	150.9	23.5	14.7	189.1	42.1	439	424	32.0	25.8	18.1	43.9	138.2	27.8	166.0	36.2
1945	140.9	26.5	11.9	178.3	48.4	451	440	31.1	24.0	18.0	42.0	133.4	33.7	167.1	37.7
1946	147.8	23.5	12.8	184.1	45.5	447	430	32.3	23.3	19.5	42.8	131.6	47.8	179.4	38.4
1947	147.4	21.1	12.6	181.3	46.8	424	413	33.9	25.7	19.4	45.1	139.6	40.8	180.4	35.1
1948	138.4	21.8	13.1	173.3	47.8	407	397	33.7	24.4	21.3	45.7	127.9	42.8	170.7	34.5
1949	137.6	23.3	12.9	173.8	47.4	406	396	35.2	24.1	21.6	45.7	121.1	42.4	163.5	33.2
1950	137.8	25.1	13.8	176.7	48.5	407	396	30.4	25.1	24.0	49.1	106.7	43.8	150.5	30.4
1951	132.4	26.2	13.2	172.1	47.3	410	401	35.6	24.1	21.1	45.2	114.9	42.9	157.8	31.6
1952	130.4	27.2	13.3	179.9	49.2	412	403	38.7	23.0	24.3	47.3	109.8	45.2	154.9	30.2
1953	146.4	27.1	13.6	187.1	47.8	407	398	36.7	22.6	24.6	47.2	104.8	45.8	150.6	32.5
1954	144.0	26.5	13.5	186.0	47.4	404	395	39.9	21.5	27.3	48.8	104.4	45.6	146.0	32.3
1955	127.7	26.7	12.9	191.8	46.9	407	398	40.2	20.7	26.5	49.2	94.8	48.6	143.4	33.0
1956	134.9	30.0	12.9	197.8	46.6	409	400	39.2	23.1	25.4	48.5	96.8	49.5	146.3	30.1
1957	134.7	31.8	12.8	201.3	46.9	402	394	39.3	21.8	25.8	47.6	92.4	51.2	143.6	27.6
1958	139.6	34.8	13.3	207.3	46.9	396	388	40.4	21.7	27.0	48.7	83.0	50.0	133.0	29.4
1959	146.5	36.6	13.7	195.9	44.7	391	383	41.7	21.5	28.1	49.6	93.5	49.4	142.9	26.9
1960	146.7	34.7	13.2	194.6	42.4	386	378	41.0	20.1	28.4	48.5	90.0	51.3	141.9	28.0
1961	145.0	35.0	13.7	193.7	41.3	376	369	41.0	20.8	27.6	48.4	86.4	50.5	136.9	27.3
1962	147.1	37.4	14.0	198.1	41.0	375	368	41.5	20.1	28.7	48.8	82.1	51.3	133.4	25.0
1963 11/	151.7	38.5	13.0	203.3	40.0	375	368	42.7	19.4	30.5	49.9	73.7	50.0	123.7	26.4

1/ Retail weight data are taken from tables 7-30. They comprise the quantity data used in computing the per capita food consumption are measured and reported in the form of their primary ingredients, such as flour, shortening, and eggs. Civilian consumption only.
2/ Includes game and edible offal.
3/ Includes 3.0 pounds per capita of game fish 1909-51, increasing 0.1 pound annually to 3.5 pounds in 1961.
4/ Includes product weight of butter and margarine; other items in terms of fat content.
5/ Data for melons, fresh vegetables, potatoes, sweetpotatoes, and dry beans and peas include consumption of home garden produce.
6/ Excludes estimated quantities of meat, poultry, and fish base soups duplicated elsewhere.
7/ Since 1956 approximations for soya products are continued at 1.3 pounds.
8/ Corn sugar and sirups are with sugars and other sweeteners.
9/ Includes sugar used in production of canned and frozen fruit, canned fruit juices, canned vegetables, and unskimmed sweetened
10/ Includes spices and herbs from table 30 (with approximations prior to 1918).
11/ Preliminary.

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retail-weight equivalent, 1909-63 1/

Fruits, melons, baby food	Vegetables				Vegetables, soup, baby food 6/	Potatoes and sweetpotatoes 5/	Beans, peas, nuts, soya products 5/ 7/	Flour and cereal products 8/	Sugars and other sweeteners 9/	Coffee, tea, cocoa	All foods 10/			Year
	Fresh 5/	Processed			Total 5/						Animal products	Crop products	Total	
		Canned	Frozen	Total										
Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
170.5	(189)	15.3	---	15.3	(204.3)	204.5	211.9	16.6	300	85.6	9.8	605	1,012	1,617	09
169.6	(188)	14.5	---	14.5	(202.5)	202.9	221.1	16.3	295	87.9	9.6	576	1,016	1,592	10
185.5	(184)	15.6	---	15.6	(199.6)	200.1	181.0	16.0	291	90.2	9.1	573	986	1,559	11
190.6	(187)	18.7	---	18.7	(205.7)	206.4	201.5	16.4	286	88.6	11.3	606	1,014	1,620	12
165.1	(180)	19.8	---	19.8	(199.8)	200.7	209.4	16.0	283	93.0	9.7	591	993	1,584	13
191.2	(184)	19.2	---	19.2	(203.2)	204.3	178.3	15.2	280	92.3	9.9	571	989	1,560	14
187.9	(181)	18.0	---	18.0	(199.0)	200.1	206.0	15.0	278	88.9	11.3	567	1,004	1,571	15
170.7	(182)	16.1	---	16.1	(198.1)	199.2	166.3	14.3	277	88.6	12.4	568	943	1,511	16
168.8	(182)	18.9	---	18.9	(200.9)	202.2	171.3	18.2	268	90.0	14.1	566	947	1,513	17
158.5	(185)	22.3	---	22.3	(207.3)	208.6	196.3	16.6	260	90.9	12.0	602	961	1,563	18
165.2	180.5	21.3	---	21.3	201.8	203.1	177.9	16.3	259	105.9	13.1	583	958	1,541	19
189.5	195.9	18.2	---	18.2	214.1	215.5	165.8	14.4	242	102.3	12.7	588	956	1,544	20
162.0	185.3	16.6	---	16.6	201.9	203.4	178.9	13.8	229	101.2	12.8	583	916	1,499	21
172.7	190.2	16.8	---	16.8	207.0	209.2	167.3	13.8	242	119.8	13.0	592	972	1,564	22
185.2	183.9	21.2	---	21.2	205.1	208.0	192.4	15.4	241	106.1	14.1	594	976	1,570	23
193.9	189.9	22.7	---	22.7	212.6	215.0	166.6	16.5	239	116.1	13.4	601	975	1,576	24
180.8	190.2	25.4	---	25.4	215.6	217.4	169.5	16.1	235	118.8	12.3	593	968	1,561	25
209.0	190.0	25.7	---	25.7	215.7	217.7	145.3	16.3	238	120.0	14.1	593	979	1,572	26
174.1	189.4	22.1	---	22.1	211.5	213.7	159.7	17.7	239	119.2	13.5	593	956	1,549	27
191.5	188.0	22.8	---	22.8	210.8	213.3	161.6	17.6	239	121.1	13.0	588	976	1,564	28
187.3	194.0	25.7	---	25.7	219.7	222.6	174.2	16.8	236	113.9	14.1	591	985	1,576	29
179.9	196.7	28.3	---	28.3	225.0	227.2	145.4	17.6	228	125.7	13.6	585	958	1,543	30
204.7	192.6	25.2	---	25.2	217.8	219.5	151.1	18.3	226	115.3	14.3	584	967	1,551	31
168.3	198.0	22.0	---	22.0	220.0	221.6	156.3	16.4	223	110.0	13.8	586	926	1,512	32
168.6	194.5	21.9	---	21.9	216.4	217.9	151.3	15.9	213	110.9	14.4	586	908	1,494	33
169.7	200.2	23.2	---	23.2	223.4	225.8	154.6	17.7	204	110.2	13.6	580	914	1,494	34
193.5	198.2	26.1	---	26.1	224.3	226.9	161.9	18.1	204	110.6	15.7	556	953	1,509	35
186.1	198.1	27.6	---	27.6	225.7	228.9	145.6	19.1	208	111.5	16.1	576	938	1,514	36
206.6	196.8	29.3	0.4	29.7	226.5	230.4	143.4	18.0	203	109.1	15.0	576	951	1,527	37
195.1	198.9	31.0	.4	31.4	230.3	234.5	146.2	19.5	204	107.9	15.0	575	946	1,521	38
214.1	198.3	31.7	.5	32.2	230.5	235.4	138.1	19.7	201	113.3	16.9	590	960	1,550	39
208.9	197.9	34.2	.6	34.8	232.7	238.0	136.1	19.5	199	108.1	17.4	603	947	1,550	40
212.9	192.0	36.6	.7	37.3	229.3	234.6	142.7	19.2	199	117.9	18.0	608	967	1,575	41
192.6	199.5	39.5	1.1	40.6	240.1	245.7	148.3	20.5	201	102.8	19.1	629	941	1,570	42
174.2	204.4	36.7	.7	37.4	241.8	246.0	142.4	20.5	208	100.5	13.8	663	925	1,588	43
202.8	211.8	34.1	1.6	35.7	247.5	252.7	152.4	20.1	190	108.8	16.3	677	962	1,639	44
205.7	217.5	42.9	1.9	44.8	262.3	267.9	136.3	20.4	201	93.2	16.9	691	961	1,652	45
218.8	201.2	46.0	2.0	48.0	249.3	255.4	136.9	19.2	192	93.6	20.8	691	958	1,649	46
216.5	190.0	39.8	2.6	42.4	232.3	238.4	135.5	16.4	173	113.7	18.6	667	930	1,597	47
206.4	186.8	37.4	2.9	40.3	227.1	233.8	113.6	17.4	170	106.4	19.1	643	888	1,531	48
197.9	174.9	38.3	2.9	41.2	216.1	228.7	118.8	16.7	169	108.5	19.5	641	874	1,515	49
182.2	170.3	41.2	3.2	44.4	214.7	221.7	114.2	19.4	167	113.1	17.6	647	858	1,505	50
196.7	165.1	41.5	4.0	45.5	210.6	217.7	117.2	17.3	165	106.3	17.3	644	850	1,494	51
186.2	161.8	40.8	4.9	45.7	207.5	215.2	105.9	17.2	162	108.4	17.3	655	835	1,490	52
184.0	157.7	42.3	5.1	47.3	205.0	212.9	112.1	16.2	158	108.1	17.3	655	836	1,491	53
174.8	155.4	41.1	5.4	46.5	201.9	210.1	111.6	16.3	155	106.0	14.7	652	822	1,474	54
177.8	154.6	42.2	5.9	48.1	202.7	211.1	113.7	16.5	152	106.3	15.1	660	820	1,480	55
175.8	154.4	42.7	6.0	48.7	203.1	211.7	107.2	17.1	150	107.7	15.9	668	813	1,481	56
172.9	152.8	42.7	6.2	48.9	201.7	210.6	112.6	16.4	148	104.3	15.3	654	808	1,462	57
171.1	149.2	43.2	6.6	49.8	199.0	208.5	107.3	16.3	149	107.4	14.7	642	805	1,447	58
171.8	147.3	43.2	6.8	50.0	197.3	207.1	105.7	15.7	148	107.8	15.2	645	807	1,452	59
172.0	149.9	43.0	7.2	50.2	199.9	210.0	109.5	16.2	147	108.8	15.1	635	810	1,445	60
166.4	147.8	43.0	7.1	50.1	197.9	208.3	110.0	16.9	146	109.1	15.4	628	802	1,430	61
160.6	144.8	44.4	7.7	52.1	196.9	207.4	108.9	15.6	144	109.8	15.5	627	795	1,422	62
152.4	145.1	46.1	7.4	53.5	197.6	208.2	111.4	16.7	144	110.3	15.6	631	789	1,420	63

index, table 1. Final consumer products that are derived from a combination of primary food groups, such as bakery products, beginning 1961.

table 24.

condensed milk.

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Table 6.---Conversion factors used to obtain retail weight from primary weight 1/

Item	Primary weight basis 2/	Factor used 3/		Item	Primary weight basis 2/	Factor used 3/	
		1909-52	1962 and beyond			1909-52	1962 and beyond
Meats				Fresh fruit			
Beef	Carcass	4/0.79	4/0.74	Citrus:			
Veal	do.	4/.91	4/.83	Oranges	Farm	0.95	0.97
Lamb and mutton	do.	.89	.89	Tangerines	do.	.91	.94
Pork, excluding lard:				Tangelos	do.	.95	.96
Lean cuts	do.	.65	.65	Grapefruit	do.	.95	.97
Fat cuts	do.	.28	.28	Lemons	do.	.95	.96
				Limes	do.	.95	.95
Poultry				Other fresh fruit:			
Chicken	Ready-to-cook 5/	1.00	1.00	Apples	do.	.90	.96
Turkey	do. 6/	1.00	1.00	Apricots	do.	.91	.91
				Avocados	do.	.91	.94
Fish and shellfish				Bananas	do.	.95	.95
Fresh and frozen	Edible	1.00	1.00	Cherries	do.	.91	.92
Canned	Canned	1.00	1.00	Cranberries	do.	.96	.96
Cured	Cured	1.00	1.00	Figs	do.	1.00	.91
				Grapes	do.	.90	.91
Eggs	Farm	7/.97	.97	Nectarines	do.	.91	.95
				Peaches	do.	.89	.94
Dairy products				Pears	do.	.90	.95
Fluid milk and cream	Fluid	1.00	1.00	Pineapples	do.	.85	.95
Other dairy products	Processed	1.00	1.00	Plums and prunes	do.	.89	.95
				Strawberries	do.	.89	.92
Fats and oils				Canned fruit and juices	Canned	1.00	1.00
Butter	Processed	1.00	1.00	Dried fruit	Packed	1.00	1.00
Lard	do.	1.00	1.00	Frozen fruit	Packed	1.00	1.00
Margarine	do.	1.00	1.00				
Shortening	do.	1.00	1.00	Cantaloups	Farm	.85	.92
Other edible 8/	Fat content	1.00	1.00	Watermelons	do.	.87	.90
Sugar				Fresh vegetables		.85	.93
Refined	Refined	1.00	1.00	Dark green and deep yellow:			
Raw to refined		.935	.935	Broccoli	Farm	.87	.92
				Carrots	do.	.90	.97
Sirups	Processed	1.00	1.00	Escarole	do.	.81	.93
				Kale	do.	.81	.88
Dry beans and peas	Farm, cleaned	1.00	1.00	Peppers	do.	.87	.92
				Spinach	do.	.81	.88
Peanuts, kernel basis	Shelled	1.00	1.00	Tomatoes	do.	.75	.85
				Other fresh vegetables:			
Grain products	Milled,			Artichokes	Farm	.90	.93
	processed	1.00	1.00	Asparagus	do.	.91	.91
				Lima beans	do.	.92	.92
Coffee				Snap beans	do.	.89	.94
Regular	Green bean	9/.84	9/.84	Beets	do.	.90	.93
Instant	do.	10/.278	10/.333	Brussels sprouts	do.	.87	.92
				Cabbage	do.	.85	.93
Tea	Leaf			Cauliflower	do.	.86	.92
	equivalent	1.00	1.00	Celery	do.	.86	.93
				Corn	do.	.86	.92
Cocoa beans	Beans	11/.80	11/.80	Cucumbers	do.	.86	.92
				Eggplant	do.	.87	.90
Potatoes				Garlic	do.	.81	.81
Fresh	Farm	.93	.96	Lettuce	do.	.81	.93
Processed	Processed	1.00	1.00	Onions	do.	.86	.94
				Green peas	do.	.95	.95
Sweetpotatoes				Shallots	do.	.90	.94
Fresh	Farm	.86	.90	Canned vegetables	Canned	1.00	1.00
Processed	Processed	1.00	1.00	Frozen vegetables	Packed	1.00	1.00

1/ These factors were based on information from various sources. These factors were first assembled during World War II. Later, they were published in Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products, Production and Marketing Administration, May 1952. 96 pp. Current revisions were based on special industry surveys and appraisals by commodity specialists.

2/ The points in the marketing system at which primary data are obtained are described in chapter 6 .

3/ Unless otherwise noted, a straight-line interpolation was made for the 9-year intervening period.

4/ Early factor used through 1953, later factor used in 1963 and thereafter; interpolation made for 1954-62.

5/ Ready-to-cook derived from liveweight using a factor of .68 prior to 1947; thereafter it was increased gradually to .72 in 1958 and beyond.

6/ Ready-to-cook derived from liveweight using a factor of .75 prior to 1956 and .76 for 1956 and 1957; thereafter it was increased 1 percentage point per year until .80 was reached in 1961.

7/ Factor of .96 used 1942-46 to cover additional loss resulting from shortage of wooden cases during the war period.

8/ Includes fats and oils in cooking and salad oils, in salad dressings, mayonnaise, in bakery products, and for minor uses such as fish canning. To avoid duplication with other foods, no attempt was made to put data on actual weight basis.

9/ Roasted.

10/ Factor of .278 used through 1961, .303 used for 1962, .333 used for 1963 and beyond.

11/ Chocolate liquor equivalent of cocoa and chocolate (53 percent fat content). Prior to 1925 a factor of .737 was used.

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regions of the country. The conversion factors vary considerably among products in the types of loss implied by their use, depending on the point in the marketing channel to which the primary data pertain and the method of subsequent handling and marketing.

Conversion factors were developed before World War II for use in computing farm-retail marketing margins. During the war, they were further refined for measuring food supplies for rationing purposes. In 1952, they were published in Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products (58). 4/ Since that time, new developments in food processing, handling, transportation, storage, and retailing have occurred to change substantially the loss that occurs in the marketing system. The changes have been greater, or at least better known, for some commodities than for others.

The conversion factors used in the past were reviewed at the time of this handbook revision. On the basis of some special industry surveys, various marketing studies conducted over the years, and seminars and discussions with commodity specialists, changes were made in factors for many of the fresh fruits and vegetables and for beef and veal. The remaining food groups continue to be based on factors developed earlier.

For certain products, no consumption data are available for early years. To enable computation of the all-food index and the nutrient data, retail-weight estimates have been made for most products since 1909. Very rough estimates are enclosed in parentheses to caution the user of their low degree of reliability.

Meat and Game

For consumption purposes, meats are measured at the slaughter level in terms of dressed or carcass weights. Cold-storage holdings are assumed to be carcass equivalents, but meats in foreign trade are converted to a carcass-weight equivalent. The carcass weight of meat commonly refers only to the flesh and the bones to which it is attached, here termed "skeletal" meat (table 7). Edible offal is not included in the carcass, though it makes up a significant part of total meat consumption. It is often mixed with processed meat products at the time of retail sale. For this reason, edible offal is added to the retail basis in deriving total red-meat consumption. Canned meats are included in the totals of meat by species but are listed separately in table 7.

On the basis of experience by a number of retail firms, the factors previously used in conversion from carcass to retail weights were verified for pork and lamb but altered for beef and veal. Currently, less beef and veal is available for sale at retail from 100 pounds of carcass than in the past. Most of this increased weight loss is attributed to the sharp increase in the proportion of fed beef marketed in the past decade. Carcasses from grain-fed cattle contain substantially more fat than do carcasses from grass-fed cattle. Much of the kidney and other internal fat is trimmed and used as various edible beef fats. These fats, included with shortening and other fats and oils in the consumption data, increased from 1.2 pounds per capita in 1953 to 2.6 pounds in 1963. Some fat trimmed from the carcass is mixed with lean meats for use in hamburger and other processed meats. However, other trimmings go into inedible tallow or are discarded when cutting carcasses at retail. Trends towards prepackaging and boning out meats are transferring some trimming from the kitchen to the marketing system. The nutritional analysis in chapter 5 assumed no change over time in conversion from carcass. Nutritional values per pound of meat consumed also were assumed constant over time.

The retail weight of pork was divided between fat and lean cuts. Trade data indicate that bacon and saltsides constitute about 28 percent of the carcass weight of pork. This percentage was used in deriving fat cuts throughout the period.

4/ This report is being revised.

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Table 7.--Meat: Per capita consumption, carcass and retail cut equivalent, 1909-63

Year	Skeletal meats 1/											Edible offals	Total red meat (retail weight) excl. game	Game 3/	Canned meat 4/
	Beef		Veal		Pork			Lamb and mutton		Total					
	Carcass weight 2/	Retail cut equivalent	Carcass weight 2/	Retail cut equivalent	Carcass weight 2/	Retail cut equivalent		Carcass weight 2/	Retail cut equivalent	Carcass weight 2/	Retail cut equivalent				
						Lean pork	Fat cuts								
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	74.2	58.6	7.3	6.6	67.0	43.6	18.8	6.7	6.0	155.2	133.6	11.1	144.7	3.0	—
1910	70.4	55.6	7.2	6.6	62.3	40.5	17.4	6.5	5.8	146.4	125.9	10.3	136.2	2.8	---
1911	68.5	54.1	7.1	6.5	69.0	44.8	19.3	7.3	6.5	151.9	131.2	10.8	142.0	2.6	—
1912	64.6	51.0	6.9	6.3	66.7	43.4	18.7	7.7	6.9	145.9	126.3	10.3	136.6	2.5	---
1913	63.3	50.0	6.3	5.7	66.9	43.5	18.7	7.2	6.4	143.7	124.3	10.1	134.4	2.4	---
1914	62.0	49.0	5.8	5.3	65.1	42.3	18.2	7.1	6.3	140.0	121.1	9.6	130.7	2.3	---
1915	56.4	44.6	5.9	5.4	66.5	43.2	18.6	6.1	5.4	134.9	117.2	10.1	127.3	2.2	---
1916	58.9	46.5	6.4	5.8	69.0	44.8	19.3	5.8	5.2	140.1	121.6	10.6	132.2	2.3	---
1917	64.7	51.1	7.2	6.6	58.9	38.3	16.5	4.5	4.0	135.3	116.5	10.3	126.8	2.5	---
1918	68.5	54.1	7.3	6.6	61.0	39.6	17.1	4.8	4.3	141.6	121.7	10.6	132.3	2.6	---
1919	61.5	48.6	7.8	7.1	63.9	41.5	17.9	5.7	5.1	138.9	120.2	11.0	131.2	2.5	---
1920	59.1	46.7	8.0	7.3	63.5	41.3	17.8	5.4	4.8	136.0	117.9	10.2	128.1	2.4	---
1921	55.5	43.8	7.6	6.9	64.8	42.1	18.1	6.1	5.4	134.0	116.3	9.7	126.0	2.3	---
1922	59.1	46.7	7.8	7.1	65.7	42.7	18.4	5.1	4.5	137.7	119.4	10.0	129.4	2.4	---
1923	59.6	47.1	8.2	7.5	74.2	48.2	20.8	5.3	4.7	147.3	128.3	10.7	139.0	2.4	---
1924	59.5	47.0	8.6	7.8	74.0	48.1	20.7	5.2	4.6	147.3	128.2	10.5	138.7	2.3	---
1925	59.5	47.0	8.6	7.8	66.8	43.4	18.7	5.2	4.6	140.1	121.5	10.2	131.7	2.1	---
1926	60.3	47.6	8.2	7.5	64.1	41.7	17.9	5.4	4.8	138.0	119.5	9.7	129.2	1.9	---
1927	54.5	43.1	7.4	6.7	67.7	44.0	19.0	5.3	4.7	134.9	117.5	9.4	126.9	1.8	
1928	48.7	38.5	6.5	5.9	70.9	46.1	19.9	5.5	4.9	131.6	115.3	9.0	124.3	1.8	---
1929	49.7	39.3	6.3	5.7	69.6	45.2	19.5	5.6	5.0	131.2	114.7	9.0	123.7	1.6	---
1930	48.9	38.6	6.4	5.8	67.0	43.6	18.8	6.7	6.0	129.0	112.8	8.9	121.7	1.6	---
1931	48.6	38.4	6.6	6.0	68.4	44.5	19.2	7.1	6.3	130.7	114.4	9.2	123.6	1.6	---
1932	46.7	36.9	6.6	6.0	70.7	46.0	19.8	7.1	6.3	131.1	115.0	9.2	124.2	1.6	---
1933	51.5	40.7	7.1	6.5	70.7	46.0	19.8	6.8	6.1	136.1	119.1	9.3	128.4	1.6	---
1934	53.8	50.4	9.4	8.6	64.4	41.9	18.0	6.3	5.6	143.9	124.5	9.6	134.1	1.6	---
1935	53.2	42.0	8.5	7.7	48.4	31.5	13.5	7.3	6.5	117.4	101.2	8.1	109.3	1.6	---
1936	60.5	47.8	8.4	7.6	55.1	35.8	15.4	6.6	5.9	130.6	112.5	8.4	120.9	1.7	---
1937	55.2	43.6	8.6	7.8	55.8	36.3	15.6	6.6	5.9	126.2	109.2	8.8	118.0	1.7	3.2
1938	54.4	43.0	7.6	6.9	58.2	37.8	16.3	6.9	6.1	127.1	110.1	8.5	118.6	1.7	3.1
1939	54.7	43.2	7.6	6.9	64.7	42.1	18.1	6.6	5.9	133.6	116.2	8.9	125.1	1.7	3.9
1940	54.9	43.4	7.4	6.7	73.5	47.8	20.6	6.6	5.9	142.4	124.4	9.7	134.1	1.8	4.3
1941	60.9	48.1	7.6	6.9	68.4	44.5	19.2	6.8	6.1	143.7	124.3	10.1	134.9	2.1	5.3
1942	61.2	48.3	8.2	7.5	63.7	41.4	17.8	7.2	6.4	140.3	121.4	11.5	132.9	2.2	1.6
1943	53.3	42.1	8.2	7.5	78.9	51.3	22.1	6.4	5.7	146.8	128.7	12.4	141.1	2.2	3.4
1944	55.6	43.9	12.4	11.3	79.5	51.7	22.3	6.7	6.0	154.2	135.2	13.5	148.7	2.2	3.4
1945	59.4	46.9	11.9	10.8	66.6	43.3	18.6	7.3	6.5	145.2	126.1	12.6	138.7	2.2	4.9
1946	61.6	48.7	10.0	9.1	75.8	49.3	21.2	6.7	6.0	154.1	134.3	11.3	145.6	2.2	8.0
1947	69.6	55.0	10.8	9.8	69.6	45.2	19.5	5.3	4.7	155.3	134.2	11.2	145.4	2.0	7.2
1948	63.1	49.8	9.5	8.6	67.8	44.1	19.0	5.1	4.5	145.5	126.0	10.3	136.3	2.1	7.8
1949	63.9	50.5	8.9	8.1	67.7	44.0	19.0	4.1	3.6	144.6	125.2	10.1	135.3	2.3	7.2
1950	63.4	50.1	8.0	7.3	69.2	45.0	19.4	4.0	3.6	144.6	125.4	10.1	135.5	2.3	8.7
1951	56.1	44.3	6.6	6.0	71.9	46.7	20.1	3.4	3.0	138.0	120.1	9.9	130.0	2.4	8.9
1952	62.2	49.1	7.2	6.6	72.4	47.1	20.3	4.2	3.7	146.0	126.8	10.2	137.0	2.4	9.4
1953	77.6	61.3	9.5	8.6	63.5	41.3	17.8	4.7	4.2	155.3	133.2	10.8	144.0	2.4	10.0
1954	80.1	62.9	10.0	9.0	60.0	39.0	16.8	4.6	4.1	154.7	131.8	10.6	142.4	2.5	9.8
1955	82.0	64.0	9.4	8.4	66.8	43.4	18.7	4.6	4.1	162.8	138.6	11.0	149.6	2.6	10.2
1956	85.4	66.2	9.5	8.4	67.3	43.7	18.8	4.5	4.0	166.7	141.1	11.2	152.3	2.6	11.0
1957	84.6	65.1	8.8	7.7	61.1	39.7	17.1	4.2	3.7	158.7	133.3	10.8	144.1	2.6	10.6
1958	80.5	61.6	6.7	5.8	60.2	39.1	16.9	4.2	3.7	151.6	127.1	9.8	136.9	2.7	10.7
1959	81.4	61.9	5.7	4.9	67.6	43.9	18.9	4.8	4.3	159.5	133.9	10.1	144.0	2.6	10.7
1960	85.0	64.2	6.1	5.2	64.9	42.1	18.2	4.8	4.3	160.8	134.0	10.1	144.1	2.6	10.8
1961	87.8	65.9	5.6	4.7	62.0	40.3	17.4	5.1	4.5	160.5	132.8	10.1	142.9	2.6	11.5
1962	88.8	66.2	5.5	4.6	63.6	41.3	17.8	5.2	4.6	163.1	134.5	10.1	144.6	2.5	11.9
1963 5/	94.2	69.7	4.9	4.1	65.3	42.4	18.3	4.9	4.4	169.3	138.9	10.3	149.2	2.5	12.1

1/ Civilian consumption only, beginning 1941. Includes processed meats on a fresh basis. Carcass weight converted to retail weight equivalent using factors indicated in table 6.

2/ Approximately at wholesale level of distribution.

3/ Approximation of game birds and mammals and commercially raised rabbits.

4/ Net canned weight; federally inspected only; excludes soups. Canned meat is included in total skeletal meat; see footnote 1.

5/ Preliminary.

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Game consumption is not included in the meat total in table 7, but a rough estimate of it is listed separately; game is added to meat in the all-food table (table 5). The game consumption estimate was based on a wartime report giving the number and dressed weight of game birds and mammals killed in 1942 by sportsmen and trappers on both public and private lands (20). Estimates of small-game production since then have been based on estimated changes in population of wildlife made by the Fish and Wildlife Service of the U.S. Department of the Interior. The annual waterfowl kill through 1952 was derived by estimating the number killed per hunter and the number of "duck stamp" sales. Beginning in 1953, an estimate of waterfowl harvest was published by the Fish and Wildlife Service. Part of the big game killed annually is reported for 1942, 1943, and 1946 to 1951. Beginning in 1952, the Fish and Wildlife Service also has published an annual summary of the big-game kill by States (98). Dressing percentages from the 1942 study were applied to numbers killed. Commercial production of rabbits of about 0.5 pound per capita is included with game in table 7.

Fishery Products

Only the edible weight of fish and shellfish consumption is recorded in the fishery products table (table 8). Data on shellfish and all processed fishery products are reported on a meat-equivalent basis, so fresh and frozen finfish also were converted to an edible basis. Per capita consumption data, prepared by the Fish and Wildlife Service of the U. S. Department of the Interior, were revised to incorporate new factors converting fresh and frozen finfish from live to edible weight basis. Other adjustments resulted from the complete revision and updating of the supply and utilization tables (chapter 7).

Consumption of game fish and home use by commercial fishermen and others are not included with consumption of commercial fishery products because few data were available on which to base the estimates. However, total fish consumption is included in the table showing consumption of all food (table 5). Consumption of fish from noncommercial sources is roughly estimated at 3.0 pounds per capita, edible weight, since 1962. It represents an increase from 2.0 pounds per capita through 1951. The estimates are based largely on two Bureau of the Census surveys of consumption of sport fish (86,87). An allowance was made for home consumption by commercial fishermen and sport catch of shellfish. Recovery of edible weight from liveweight was assumed lower than for the commercial catch. In addition, it was assumed that only about half of the sport catch was consumed.

Estimates of per capita consumption by U. S. civilians for 1910-28 (1910-20 for canned products) were based on a straight-line interpolation between 1909 and 1929 (1921 for canned). Civilian disappearance of fresh, canned, and cured fish was estimated for 1909 from Census data on production and foreign trade in 1908.

Poultry and Eggs

Practices of marketing chickens and turkeys have changed from selling them dressed, New York style, to the ready-to-cook or eviscerated form which includes giblets. Chicken and turkey production is initially reported on a liveweight basis, but consumption is derived in terms of ready-to-cook weights with no additional loss to retail. However, in recent years a rapidly increasing proportion of turkey has been used as a raw material in further-processed foods. Table 9 shows consumption on the earlier dressed-weight basis through 1953, and on a ready-to-cook equivalent since 1909.

Approximations of per capita consumption of ducks and geese are based on Census of Agriculture reports. Primary egg data are developed in terms of numbers of eggs at the farm level. Production is estimated on the basis of number of layers on farms and average rates of lay. Adjustments have been made in recent years using commercial egg-movement reports. A loss factor covering breakage and spoilage converts from farm to a retail basis. No change in this factor was made except during the war when excessive breakage occurred from using paper crates. The retail basis of eggs is expressed in terms of pounds. The weight per dozen of eggs

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Table 8.--Fishery products: Per capita consumption (edible weight), 1909-63 1/

Year	Fresh and frozen			Canned 3/						Cured 4/	Total all fish
	Fish	Shellfish	Total 2/	Salmon	Sardines (pilchards and herring)	Tuna	Shellfish	Other	Total		
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909 5/	---	---	(4.3)	---	---	---	---	---	(2.7)	(4.0)	(11.0)
1910	---	---	(4.5)	---	---	---	---	---	(2.8)	(3.9)	(11.2)
1911	---	---	(4.6)	---	---	---	---	---	(2.8)	(3.7)	(11.3)
1912	---	---	(5.0)	---	---	---	---	---	(2.9)	(3.4)	(11.3)
1913	---	---	(5.3)	---	---	---	---	---	(2.9)	(3.3)	(11.5)
1914	---	---	(5.6)	---	---	---	---	---	(3.0)	(3.1)	(11.7)
1915	---	---	(5.8)	---	---	---	---	---	(2.4)	(3.0)	(11.2)
1916	---	---	(6.0)	---	---	---	---	---	(2.2)	(2.8)	(11.0)
1917	---	---	(6.2)	---	---	---	---	---	(2.0)	(2.7)	(10.9)
1918	---	---	(5.4)	---	---	---	---	---	(2.0)	(2.5)	(10.9)
1919	---	---	(5.4)	---	---	---	---	---	(2.0)	(2.4)	(11.6)
1920	---	---	(5.2)	---	---	---	---	---	(3.2)	(3.2)	(11.6)
1921	---	---	(5.2)	1.1	.7	.1	[illegible]	.1	2.9	(2.1)	(10.5)
1922	---	---	(5.2)	[illegible]	.7	.1	[illegible]	.1	3.2	(2.0)	(11.3)
1923	---	---	(5.4)	1.2	.5	[illegible]	[illegible]	0/	[illegible]	(1.6)	(10.7)
1924	---	---	(5.4)	[illegible]	.5	.1	[illegible]	0/	3.2	(1.7)	(11.3)
1925	---	---	(5.4)	[illegible]	.7	[illegible]	[illegible]	0/	3.2	(1.6)	(11.1)
1926	---	---	(5.5)	[illegible]	.8	[illegible]	[illegible]	.1	3.4	(1.4)	(11.4)
1927	---	---	(5.6)	[illegible]	.8	[illegible]	[illegible]	.1	[illegible]	(1.5)	(12.2)
1928	---	---	(5.7)	1.4	1.1	.2	.2	0/	[illegible]	(1.1)	(12.1)
1929	[illegible]	1.4	[illegible]	[illegible]	[illegible]	.2	.3	.2	3.9	1.1	11.9
1930	4.6	1.2	5.8	2.1	.6	.3	.2	.2	3.4	1.0	10.2
1931	3.9	1.0	4.9	2.1	.5	.2	.2	.2	3.2	.7	8.8
1932	3.4	.9	4.3	2.3	.5	.3	.2	.1	3.4	.7	8.4
1933	3.4	.8	4.2	2.3	.7	.3	.2	.4	3.9	.6	8.7
1934	3.3	1.0	4.3	2.3	.8	.4	.2	.5	4.2	.7	9.2
1935	4.1	1.0	5.1	2.2	1.0	.5	.2	.8	4.7	.7	10.5
1936	4.1	1.1	5.2	3.0	1.3	.4	.4	.7	5.8	.7	11.7
1937	4.4	1.2	5.6	2.6	1.3	.5	.4	.5	5.3	.9	11.8
1938	4.0	1.2	5.2	2.4	1.0	.5	.4	.5	4.8	.8	10.8
1939	4.1	1.2	5.3	2.1	1.1	.6	.5	.4	4.7	.7	10.7
1940	4.5	1.2	5.7	2.0	1.0	.6	.5	.5	4.6	.7	11.0
1941	5.0	1.3	6.3	2.3	.9	.5	.2	.3	4.2	.7	11.2
1942	4.0	1.2	5.2	1.2	.8	.4	.2	.3	2.9	.6	8.7
1943	4.2	1.3	5.5	.7	.4	.4	.2	.1	1.8	.6	7.9
1944	4.1	1.4	5.5	.8	.9	.5	.1	.3	2.6	.6	8.7
1945	5.0	1.6	6.6	.9	.8	.6	.1	.2	2.6	.7	9.9
1946	4.3	1.6	5.9	1.4	1.1	.7	.4	.6	4.2	.7	10.8
1947	4.2	1.6	5.8	1.3	.9	.8	.2	.6	3.8	.7	10.3
1948	4.4	1.6	6.0	1.6	1.1	.9	.3	.5	4.4	.7	11.1
1949	4.3	1.5	5.8	1.6	1.2	.9	.3	.5	4.5	.6	10.9
1950	4.7	1.6	6.3	1.4	1.4	1.1	.4	.6	4.9	.6	11.8
1951	4.6	1.7	6.3	1.4	.8	1.2	.4	.5	4.3	.6	11.2
1952	4.5	1.7	6.2	1.4	.5	1.3	.3	.8	4.3	.7	11.2
1953	4.7	1.7	6.4	1.3	.7	1.4	.4	.5	4.3	.7	11.4
1954	4.5	1.7	6.2	1.1	.8	1.4	.4	.6	4.3	.7	11.2
1955	4.2	1.7	5.9	1.0	.6	1.4	.4	.5	3.9	.7	10.5
1956	4.0	1.7	5.7	1.1	.4	1.6	.4	.5	4.0	.7	10.4
1957	3.8	1.7	5.5	1.0	.4	1.6	.4	.6	4.0	.7	10.2
1958	4.1	1.6	5.7	1.1	.6	1.8	.4	.4	4.3	.6	10.6
1959	4.1	1.8	5.9	.9	.6	1.9	.5	.5	4.4	.6	10.9
1960	3.8	1.9	5.7	.7	.5	2.0	.4	.4	4.0	.6	10.3
1961	3.9	2.0	5.9	.8	.5	2.1	.4	.5	4.3	.5	10.7
1962	3.9	1.9	5.8	.9	.4	2.0	.3	.7	4.3	.5	10.6
1963 7/	3.7	2.0	5.7	.9	.4	2.1	.5	.5	4.4	.5	10.6

1/ Edible weight; excludes game fish consumption estimated at 2.0 pounds per capita 1909-51, increasing 0.1 pound annually to 3.0 pounds in 1963. 2/ Fresh and frozen fish consumption in the period 1910-28 are based on a straight-line projection, adjusted. 3/ Canned fish consumption estimates 1910-20 based on straight-line projection, adjusted for heavy export and military takings of canned fish from 1915-18; beginning in 1921 based on production reports, packer stocks, and foreign trade statistics for individual years. 4/ Cured fish estimates 1910-28 based on straight-line projection, unadjusted. 5/ Data for 1909 assumed to be same as 1908 which were estimated on basis of the 1908 Census and Department of Commerce foreign trade data. 6/ Less than 0.05 pound. 7/ Preliminary.

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Table 9.--Poultry and eggs: Per capita consumption, 1909-63 1/

Year	Poultry						Eggs		
	Chicken		Turkey 4/		Ducks and geese, ready-to-cook weight 5/	Total, ready-to-cook weight	Farm weight		Retail weight 7/
	Dressed weight 2/	Equivalent ready-to-cook weight 3/	Dressed weight 2/	Equivalent ready-to-cook weight 3/			Number of eggs	Poundage 6/	
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Number	Pounds	Pounds
1909	19.6	14.7	(1.2)	(1.0)	(1.5)	17.2	293	36.6	35.5
1910	20.6	15.5	(1.2)	(1.0)	(1.5)	18.0	306	38.2	37.1
1911	20.8	15.6	(1.3)	(1.1)	(1.4)	18.1	329	41.1	39.9
1912	19.9	14.9	(1.3)	(1.1)	(1.4)	17.4	312	38.9	37.7
1913	19.4	14.5	(1.3)	(1.1)	(1.3)	16.9	303	37.9	36.8
1914	19.3	14.5	(1.3)	(1.1)	(1.3)	16.9	295	36.9	35.8
1915	19.2	14.4	(1.4)	(1.2)	(1.2)	16.8	313	39.1	37.9
1916	18.4	13.8	(1.4)	(1.2)	(1.2)	16.2	299	37.4	36.3
1917	17.7	13.3	(1.4)	(1.2)	(1.1)	15.6	281	35.2	34.1
1918	17.8	13.3	(1.4)	(1.2)	(1.1)	15.6	284	35.5	34.4
1919	19.0	14.2	(1.5)	(1.3)	(1.1)	16.6	303	37.9	36.8
1920	18.3	13.7	(1.5)	(1.3)	(1.0)	16.0	299	37.4	36.3
1921	17.8	13.4	(1.5)	(1.3)	(1.0)	15.7	300	37.5	36.4
1922	18.9	14.2	(1.5)	(1.3)	(1.0)	16.5	316	39.5	38.3
1923	19.4	14.6	(1.6)	(1.3)	(.9)	16.8	326	40.8	39.6
1924	18.3	13.7	(1.6)	(1.3)	(.9)	15.9	324	40.5	39.3
1925	19.0	14.3	(1.6)	(1.3)	(.8)	16.4	318	39.8	38.6
1926	19.0	14.2	(1.6)	(1.3)	(.8)	16.3	339	42.3	41.0
1927	20.3	15.2	(1.7)	(1.4)	(.8)	17.4	342	42.8	41.5
1928	19.5	14.6	(1.7)	(1.4)	(.7)	16.7	338	42.3	41.0
1929	19.1	14.3	1.7	1.4	.7	16.4	334	41.8	40.5
1930	20.9	15.7	1.8	1.5	(.7)	17.9	331	41.4	40.2
1931	18.8	14.1	1.7	1.4	(.7)	16.2	333	41.6	40.4
1932	19.1	14.3	2.1	1.7	(.6)	16.6	313	39.2	38.0
1933	19.6	14.7	2.4	2.0	(.6)	17.3	296	37.1	36.0
1934	18.0	13.5	2.2	1.8	(.6)	15.9	289	36.1	35.0
1935	17.5	13.1	2.1	1.7	(.6)	15.4	280	35.0	34.0
1936	18.2	13.7	2.7	2.2	(.5)	16.4	289	36.1	35.0
1937	18.1	13.6	2.8	2.3	(.5)	16.4	308	38.5	37.3
1938	16.9	12.7	2.8	2.3	(.5)	15.5	310	38.8	37.6
1939	18.8	14.1	3.0	2.5	.5	17.1	313	39.1	37.9
1940	18.8	14.1	3.5	2.9	(.5)	17.5	319	39.9	38.7
1941	20.6	15.4	3.5	2.9	(.5)	18.8	311	38.9	37.7
1942	23.6	17.7	3.6	3.0	(.4)	21.1	318	39.7	38.1
1943	30.7	23.0	3.3	2.7	(.4)	26.1	347	43.3	41.6
1944	27.1	20.4	3.3	2.7	(.4)	23.5	354	44.3	42.5
1945	28.9	21.6	4.2	3.5	(.4)	25.5	403	50.4	48.4
1946	25.9	19.4	4.5	3.7	(.4)	23.5	379	47.4	45.5
1947	23.5	18.1	4.2	3.6	(.4)	22.1	383	48.2	46.8
1948	23.2	18.3	3.7	3.1	(.4)	21.8	389	49.3	47.8
1949	25.2	19.6	4.1	3.3	.4	23.3	383	48.9	47.4
1950	26.4	20.6	4.9	4.1	(.4)	25.1	389	50.0	48.5
1951	28.1	21.7	5.4	4.4	(.4)	26.5	393	50.8	49.3
1952	28.4	22.1	5.7	4.7	(.4)	27.2	390	50.7	49.2
1953	28.4	21.9	5.7	4.8	(.4)	27.1	379	49.3	47.8
1954	8/	22.8	8/	5.3	.4	28.5	376	48.9	47.4
1955	8/	21.3	8/	5.0	(.4)	26.7	371	48.3	46.9
1956	8/	24.4	8/	5.2	(.4)	30.0	369	48.0	46.6
1957	8/	25.5	8/	5.9	(.4)	31.8	362	47.3	45.9
1958	8/	28.1	8/	5.9	(.4)	34.4	354	46.3	44.9
1959	8/	28.9	8/	6.3	.4	35.6	352	46.1	44.7
1960	8/	28.1	8/	6.2	(.4)	34.7	334	43.7	42.4
1961	8/	30.2	8/	7.4	(.4)	38.0	326	42.6	41.3
1962	8/	30.0	8/	7.0	(.4)	37.4	323	42.3	41.0
1963 9/	8/	30.9	8/	6.7	(.4)	38.0	315	41.2	40.0

1/ Civilian consumption only, 1941 to date. Data in parentheses are approximations. 2/ Excluding only blood and feathers. Usual form of marketing until after World War II. 3/ Ready-to-cook including giblets. Chicken: 1909-46 estimated from dressed weight data using factor of 75 percent (equivalent to 68 percent of live weight); 1947 to date computed from live-weight basis, using factors gradually increased to 72 percent in 1958 and thereafter. Turkey: Calculated at 82.4 percent of dressed weight (or 75 percent of live weight) through 1955; 76 percent of live weight in 1956 and 1957; thereafter increased 1 percent each year to 80 percent in 1961 and thereafter. 4/ Based on straight-line projection 1909-28, with rough estimate for 1909. 5/ Rough approximations only. 6/ Weight of a dozen eggs 1909-46 assumed to be 1.5 pounds, subsequently increased 0.01 pound each year through 1952, remained at 1.56 through 1956, thereafter 1.57. 7/ Loss farm weight to retail 3 percent, 1909-41 and 1947 to date; 4-percent loss, 1942-46. 8/ Series discontinued. 9/ Preliminary.

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Table 10.--Dairy products:

Year	Fluid milk and cream 2/					Butter 6/	Cheese			Evaporated and condensed 6/				Frozen		
				Total			Whole and part whole milk cheese 7/					Condensed whole milk				
	Fluid whole milk	Cream 3/	Low-fat milks 4/	Product weight	Fluid milk equivalent 5/		American	Other	Cottage	Evaporated whole milk	Evaporated and condensed skim milk 8/	Sweetened	Unsweetened	Ice cream	Sherbet	Ice milk
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	274	11.0	63.3	348	343	17.8	2.5	1.3	0.6	1.4	0.6	2.4	1.7	1.6	---	---
1910	252	10.1	61.9	324	315	18.3	2.8	1.5	.6	1.5	.7	2.4	1.9	1.9	---	---
1911	241	9.6	60.9	312	301	18.6	2.5	1.5	.7	1.7	.8	2.5	2.2	2.3	---	---
1912	284	11.4	60.0	355	355	16.6	2.5	1.4	.7	2.0	.8	2.6	2.5	2.7	---	---
1913	274	10.9	58.8	344	342	16.5	2.6	1.6	.7	2.4	.9	2.6	2.9	3.0	---	---
1914	257	10.3	57.6	325	321	17.0	2.6	1.6	.7	2.9	1.0	2.7	3.3	3.4	---	---
1915	254	10.2	56.8	321	318	17.2	2.5	.6	.7	3.3	1.2	3.2	3.0	3.9	---	---
1916	252	10.1	55.8	318	315	17.3	2.4	.4	.7	3.6	1.4	3.6	2.4	4.3	---	---
1917	262	10.5	55.0	328	328	15.7	2.5	.2	.7	3.8	1.6	3.7	1.9	4.8	---	---
1918	289	11.6	54.1	355	361	14.1	2.8	1.1	.6	4.8	1.8	4.1	1.4	6.4	---	---
1919	268	10.7	53.6	332	335	15.2	2.8	1.4	.6	6.3	2.1	2.8	.7	6.8	---	---
1920	278	11.1	52.8	342	348	14.9	2.8	1.2	.6	7.2	1.6	.7	.7	7.6	---	---
1921	277	11.1	51.9	340	346	16.3	2.9	1.3	.4	7.8	1.3	1.4	.7	7.6	---	---
1922	274	10.9	51.4	336	342	17.1	2.9	1.4	.5	8.3	1.4	2.0	.6	8.2	---	---
1923	262	10.5	50.9	323	328	17.8	3.1	1.4	.6	8.9	1.8	1.7	.8	9.0	---	---
1924	269	10.8	52.1	332	336	17.8	3.3	1.3	.8	9.6	1.8	1.6	.7	8.8	---	---
1925	270	10.8	51.1	332	337	18.1	3.3	1.4	.9	9.2	1.9	1.5	1.0	9.7	---	---
1926	270	10.8	50.0	331	338	18.3	3.2	1.4	1.0	9.6	2.5	1.5	.7	9.5	---	---
1927	269	10.8	49.2	329	336	18.3	3.2	1.4	1.0	9.5	2.5	1.3	.9	9.9	---	---
1928	270	10.8	48.5	329	337	17.6	3.0	1.4	1.2	10.3	2.7	1.2	.8	9.9	---	---
1929	272	10.9	48.1	331	340	17.6	3.2	1.5	1.2	11.2	3.1	1.2	1.2	10.7	---	---
1930	270	10.8	48.1	329	337	17.6	3.2	1.5	1.2	11.3	2.7	1.3	1.0	9.8	---	---
1931	268	10.7	48.2	328	335	18.3	3.1	1.4	1.2	11.5	2.4	1.0	.9	8.6	---	---
1932	271	10.8	50.1	332	339	18.5	3.0	1.4	1.3	12.4	2.2	.8	.8	6.3	0.1	---
1933	270	10.8	50.4	331	337	18.2	3.2	1.4	1.2	12.4	2.0	.7	.7	6.1	.1	---
1934	258	10.3	50.2	319	322	18.6	3.4	1.5	1.2	13.5	2.2	.8	.7	7.1	.2	---
1935	261	10.4	49.3	321	326	17.6	3.8	1.5	1.3	14.7	2.4	.7	.8	8.1	.2	---
1936	264	10.6	48.6	323	330	16.8	3.9	1.5	1.4	14.1	2.6	.8	1.0	9.5	.3	---
1937	265	10.6	47.8	323	331	16.8	3.9	1.6	1.5	15.0	3.0	.7	1.0	10.6	.3	---
1938	263	10.5	47.4	321	329	16.6	4.3	1.6	1.6	15.6	3.2	.6	1.0	10.4	.3	---
1939	266	10.6	47.7	324	332	17.4	4.3	1.7	1.9	16.3	3.0	.7	.8	11.0	.7	---
1940	265	10.6	47.3	323	331	17.0	4.4	1.6	1.9	17.5	3.3	.8	1.0	11.4	.4	0.4
1941	267	10.7	47.1	325	334	16.1	4.3	1.6	2.0	16.8	4.0	.8	.9	13.6	.4	.4
1942	290	10.2	46.4	347	354	15.9	4.7	1.7	2.0	16.5	4.4	1.0	.9	15.8	.4	.5
1943	314	11.1	45.3	371	371	11.8	5.0	1.9	2.1	17.1	5.1	.9	.8	13.1	2.4	.3
1944	328	10.7	43.1	382	381	11.9	5.1	1.8	2.2	13.8	5.9	1.0	.9	14.3	2.5	.3
1945	335	11.8	41.7	390	399	10.9	4.8	1.9	2.6	16.3	7.7	1.0	1.0	15.7	3.3	.4
1946	323	13.6	39.7	376	389	10.5	4.5	2.2	2.5	17.1	9.7	.8	.7	23.1	.6	.5
1947	306	13.2	37.4	357	369	11.2	5.2	1.7	2.3	18.2	6.8	1.0	1.2	20.1	.5	.5
1948	295	13.0	35.2	344	355	10.0	5.2	1.7	2.5	18.4	5.2	.4	1.4	18.5	.5	.7
1949	296	12.4	33.8	342	352	10.6	5.3	1.8	2.7	17.8	5.3	.6	1.4	17.6	.6	1.0
1950	297	11.8	33.6	342	349	10.7	5.7	2.2	3.1	18.1	5.1	.5	1.5	17.2	.7	1.2
1951	303	11.5	33.0	348	352	9.6	5.1	2.1	3.3	16.3	4.8	.5	1.5	17.4	.9	1.5
1952	306	10.8	32.8	350	352	8.6	4.3	2.3	3.4	15.7	4.7	.4	1.5	17.9	1.1	1.8
1953	303	10.5	31.5	345	347	8.5	5.1	2.4	3.6	15.4	4.8	.5	1.5	18.0	1.3	2.1
1954	304	10.1	28.1	342	348	9.0	5.5	2.4	3.8	14.8	4.9	.4	1.6	17.4	1.4	2.6
1955	306	9.9	28.5	344	348	9.0	5.4	2.5	3.9	14.2	4.7	.4	1.6	18.0	1.5	2.9
1956	308	9.9	27.8	346	348	8.7	5.4	2.6	4.5	13.6	4.5	.4	1.8	18.0	1.4	3.3
1957	304	9.7	26.4	340	343	8.3	5.1	2.6	4.6	13.1	4.6	.4	1.9	18.0	1.4	3.6
1958	298	9.3	26.7	334	335	8.3	5.5	2.6	4.6	12.3	4.2	.5	2.0	17.8	1.4	3.8
1959	292	9.1	27.1	328	328	7.9	5.2	2.8	4.7	11.9	4.6	.4	2.1	18.7	1.5	4.2
1960	286	9.1	27.1	322	322	7.5	5.4	2.9	4.7	11.2	4.5	.4	2.1	18.3	1.5	4.5
1961	276	8.7	27.9	313	310	7.4	5.1	2.9	4.6	10.7	4.8	.4	2.2	18.0	1.4	5.0
1962	275	8.5	29.0	312	308	7.3	5.1	3.1	4.5	10.1	4.8	.5	1.9	17.9	1.4	5.6
1963 14/	276	8.1	30.2	314	308	6.9	5.1	3.1	4.4	9.4	4.6	.4	1.8	18.0	1.5	6.0

1/ Civilian consumption only, beginning 1941.
2/ Cream was estimated as 20 percent of total fluid milk and cream (whole milk equivalent) consumed 1909-41; beginning 1942 this proportion was varied,
3/ On basis of 25 percent fat content 1909-42; 20 percent in 1943 and 1944; declining percentage since then, based primarily on information from
4/ Includes buttermilk and all low-fat fluid items, including quantities used in flavored drinks.
5/ Includes cream in terms of whole milk equivalent, farm weight for farm consumption, distribution weight for nonfarm.
6/ Includes quantities used in other dairy products.
7/ Excludes pot and bakers' cheese.
8/ Includes evaporated and condensed buttermilk.
9/ Estimated on basis of quantity of milk fat used in frozen desserts minus approximated quantities supplied in the form of butter and condensed whole
10/ Estimated on basis of fat and nonfat dairy solids (exclusive of those supplied by butter, condensed milk, and nonfat dry milk), assuming the water
11/ To avoid duplication, includes only the dairy component of frozen desserts (see footnote 9) and excludes nonfat dry milk used in dairy products other dairy component is included here.
12/ Excludes butter. The inclusion of butter would add 0.5 to 1.5 quarts.
13/ Less than 0.05 pound.
14/ Preliminary.

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Per capita consumption, 1909-63 1/

dairy products					Dry milk products					All dairy products (including butter)					
		Total								Total retail product weight 11/	Milk solids equivalent			Milk equivalent		Year
Other frozen dairy products	Mellorine	Net milk used 9/	Product weight	Dairy component of product 10/	Nonfat dry milk 6/	Dry whole milk	Dry butter-milk	Dry whey	Malted milk		Milk fat	Nonfat	Total	Calcium content basis 12/	Fat content basis	
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Gr.	Lb.	
—	—	3.7	1.6	1.2	—	—	—	—	—	378	30.2	32.9	63.1	180	770	09
—	—	4.6	1.9	1.4	—	13/	—	—	—	355	29.7	31.1	60.8	171	759	10
—	—	5.5	2.3	1.7	—	13/	—	—	—	344	29.4	30.1	59.5	165	749	11
—	—	6.4	2.7	2.0	—	13/	—	—	—	386	29.9	34.1	64.0	186	763	12
—	—	7.2	3.0	2.2	—	13/	—	—	—	376	29.5	33.4	62.9	182	754	13
—	—	8.2	3.4	2.5	—	13/	—	—	—	359	29.2	32.0	61.2	175	747	14
—	—	9.3	3.9	2.9	—	13/	—	—	—	357	29.4	31.9	61.3	174	751	15
—	—	10.3	4.3	3.2	—	13/	—	—	—	354	29.3	31.6	60.9	173	747	16
—	—	11.6	4.8	3.6	—	13/	—	—	—	363	28.6	32.4	61.0	176	729	17
—	—	15.1	6.4	4.7	—	13/	—	—	—	390	28.4	35.2	63.6	192	725	18
—	—	16.1	6.8	5.0	—	0.1	13/	—	—	369	28.8	33.3	62.1	183	733	19
—	—	17.8	7.6	5.6	0.2	.1	13/	—	—	378	28.9	33.9	62.8	186	736	20
—	—	18.0	7.6	5.6	.2	13/	13/	—	—	378	30.1	34.0	64.1	186	768	21
—	—	19.3	8.2	6.0	.2	13/	13/	—	0.1	377	30.7	34.0	64.7	186	783	22
—	—	21.3	9.0	6.6	.4	.2	13/	—	.1	366	30.9	33.5	64.4	183	787	23
—	—	20.9	8.8	6.5	.4	.1	13/	—	.1	376	31.1	34.3	65.4	188	796	24
—	—	23.5	9.7	7.2	.4	.1	13/	—	.1	377	31.4	34.4	65.8	189	802	25
—	—	23.0	9.5	7.1	.5	.1	13/	—	.2	377	32.0	34.6	66.6	187	818	26
—	—	24.2	9.9	7.4	.7	.1	13/	—	.2	376	31.8	34.7	66.5	190	813	27
—	—	24.4	9.9	7.4	.8	.1	13/	—	.2	376	31.5	34.9	66.4	191	804	28
—	—	27.1	10.7	8.2	1.1	.1	13/	—	.2	381	31.8	35.9	67.7	197	811	29
—	—	24.7	9.8	7.4	1.3	.1	13/	—	.2	378	32.1	35.7	67.8	196	819	30
—	—	21.6	8.6	6.5	1.4	.1	13/	—	.1	376	32.9	35.4	68.3	193	838	31
—	—	15.9	6.4	4.7	1.4	.1	13/	—	.1	379	32.7	35.6	68.3	194	832	32
—	—	15.1	6.2	4.6	1.4	.1	13/	—	.1	377	31.9	35.5	67.4	193	814	33
—	—	17.8	7.3	5.3	1.5	.1	13/	—	.1	368	32.0	35.0	67.0	192	813	34
—	—	20.2	8.3	6.2	1.6	.2	13/	—	.1	372	31.6	35.7	67.3	196	809	35
—	—	23.8	9.8	7.2	1.8	.1	13/	—	.1	374	31.2	36.3	67.5	200	792	36
—	—	26.7	10.9	8.2	1.9	.1	13/	0.1	.1	377	31.5	36.9	68.4	203	797	37
—	—	26.0	10.7	7.9	2.1	.1	13/	.1	.1	376	31.4	37.1	68.5	204	796	38
—	—	27.7	11.7	8.4	2.2	.1	0.1	.1	.1	381	32.6	37.7	70.3	207	824	39
0.1	—	28.9	12.3	8.9	2.2	.1	.1	.1	.1	382	32.5	38.1	70.6	209	818	40
.1	—	34.3	14.6	10.6	2.5	.2	.2	.1	.1	385	32.0	38.4	70.4	212	803	41
.1	—	39.4	16.9	12.3	2.6	.2	.2	.1	.2	409	33.2	41.0	74.2	226	832	42
.1	—	31.0	16.0	9.9	2.1	.4	.2	.1	.4	427	30.1	42.6	72.7	231	750	43
.1	—	33.9	17.3	10.7	1.9	.3	.2	.2	.3	436	30.6	42.8	73.4	232	763	44
.2	—	37.5	19.7	12.0	1.9	.4	.2	.2	.3	451	31.6	45.5	77.1	249	788	45
.2	—	37.9	18.4	18.9	3.3	.5	.1	.2	.3	447	31.4	46.9	78.3	257	786	46
.2	—	32.1	21.3	16.4	2.9	.5	.2	.2	.2	424	30.7	44.0	74.7	241	768	47
.2	—	40.6	19.9	14.7	3.3	.3	.2	.1	.1	407	28.8	42.4	71.2	234	723	48
.3	—	45.4	19.5	14.5	3.3	.3	.2	.2	.1	406	29.1	42.3	71.4	234	734	49
.3	—	45.0	19.4	14.4	3.7	.3	.2	.2	.2	407	29.4	43.7	73.1	236	740	50
.4	—	44.7	20.2	14.4	4.2	.3	.1	.1	.2	410	28.2	43.7	71.9	236	715	51
.4	0.4	47.4	21.6	15.4	4.6	.5	.2	.2	.2	412	27.4	44.3	71.7	242	700	52
.4	.7	48.3	22.5	15.8	4.2	.2	.2	.2	.2	407	26.8	43.7	70.5	237	691	53
.5	.9	47.1	24.5	15.6	4.5	.2	.2	.2	.2	404	27.1	43.9	71.0	239	699	54
.1	1.0	48.7	23.5	16.2	5.5	.2	.2	.2	.2	407	27.2	44.6	71.8	244	706	55
.1	1.0	49.7	23.8	16.5	5.2	.3	.3	.2	.2	409	26.9	44.6	71.5	244	701	56
.2	1.0	49.3	24.1	16.3	5.3	.2	.3	.3	.2	402	26.0	44.0	70.2	241	685	57
.1	1.1	49.5	24.2	16.2	5.6	.3	.4	.3	.2	396	25.7	43.6	69.3	239	680	58
.2	1.2	52.2	25.8	17.2	6.2	.3	.4	.3	.1	391	25.0	43.5	68.5	239	666	59
.2	1.2	51.5	25.7	17.8	6.2	.3	.4	.3	.1	389	24.5	43.2	67.7	238	651	60
.1	1.3	51.5	25.8	18.0	6.2	.3	.4	.3	.1	376	23.9	42.5	66.4	235	638	61
.1	1.3	51.6	26.4	18.6	6.1	.3	.4	.3	.1	375	23.8	42.4	66.2	235	635	62
.2	1.3	51.9	27.0	19.6	6.8	.3	.4	.3	.1	375	23.3	41.6	64.9	235	628	63

largely on basis of information obtained from markets having Federal milk marketing orders.
Government regulated fluid milk markets.

milk.
content of plain ice cream is representative of all dairy desserts.
than frozen desserts (see footnote 10). The vegetable oil in mellorine is included with the fats and oils data elsewhere in this bulletin and only the

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has increased because of the production of larger eggs (footnote 6 of table 9). As a result, the postwar downtrend in egg consumption has not been as sharp in pounds as in numbers.

Dairy Products

National consumption of fluid milk and cream is estimated on the basis of sales under State and Federal marketing orders and estimated consumption on farms where produced. Manufactured products are measured in product form. It is assumed there is little additional loss prior to consumption; no distinction is made between primary and retail weights.

Products with and without milk fat were carefully distinguished. For example, milk and cream used in ice cream and evaporated and condensed skim milk are shown separately from their whole-milk counterparts. Butter is produced as a dairy product but consumed as a fat, so it is included in both the dairy products and the fats and oils tables (tables 10 and 11). Though not entirely a dairy product, mellorine consumption also is found in the two tables: in terms of product weight of dairy components in the dairy table and fat content in the fats and oils table.

There are several different ways of measuring total consumption of dairy products (table 10). One way is simply to add the retail product weights of all the various products, excluding duplication among dairy products and other products, such as sugar. This total is used in table 5, which gives total retail weights of all food products. Shifts in consumption among forms of dairy products--for example, nonfat dry milk for fluid milk--suggest that this method of aggregation provides a spurious trend in total consumption. Adding the solids contents of dairy products on the basis of their milk-fat or solids-not-fat content are alternative ways of adding dairy products. More commonly, the milk equivalent of each product, calculated on the basis of fat content, is aggregated. But with the decline in use of butter and increasing use of low-fat and nonfat items, this basis has become less satisfactory. Nutritionists prefer a calcium-equivalent basis for combining the milk equivalent of dairy products. Each of these various methods of totaling consumption of dairy products is given in table 10.

Fats and Oils

Fats and oils cut across many commodity group designations. They are measured in product or ingredient form; it is assumed there is no further loss to retail weight. Animal products include lard, beef fats, and butter. The fat cuts of pork--bacon and saltside--are included with meats rather than fats, although they account for a significant amount of the nutrient fat. Oilseeds and other vegetable products provide a number of oils. The residual components often are used for feed or other nonfood purposes. The oils are used in margarine, shortening, cooking and salad oils, and as ingredients in many other foods. Only the fat used in such products as mayonnaise and salad dressing, potato chips, frozen french fries, and mellorine is given in table 11.

Lard and shortening are 100-percent fat, but the product weight of butter and margarine exceeds the fat content. Accordingly, the combined product weight of fats and oils exceeds the weight on a fat-content basis. For the first time, a breakdown of fat content between animal and vegetable products is given in the consumption table. Aside from the interest in their opposing historical trends, such a comparison allows tabulation of consumption of all animal and all vegetable (plant) products.

Fruits

Because of the multiplicity of fruits and the forms in which they are marketed, a number of tables are used to show trends and variations in per capita consumption. A summary table for fruits gives the total per capita consumption of citrus, noncitrus, and all fruits (table 12). Totals are given for fresh fruits on a farm and retail-weight basis. Processed fruits are tallied on a fresh-equivalent and a retail-weight basis. The fresh-equivalent total of all fruits is given on both a farm- and retail-weight basis--the result of adding the fresh-equivalent

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Table 11.--Food fats and oils: Per capita consumption, 1909-63 1/

Year	Table spreads (product weight)			Cooking fats			Other edible fats and oils (mainly cooking and salad oils)						Total			
							Oil used in							Fat content		
	Butter	Margarine	Total	Lard 2/	Shortening	Total	Mayonnaise and salad dressing	Potato chips 3/	Frozen French fries 3/	Mellorine 3/	Other 4/	Total	Product weight 5/	Animal	Vegetable	Total
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	17.8	1.2	19.0	12.5	(8.0)	(20.5)	---	---	---	---	---	(1.5)	(41.0)	---	---	---
1910	18.3	1.6	19.9	12.5	(8.0)	(20.5)	---	---	---	---	---	(1.5)	(41.9)	---	---	---
1911	18.6	1.1	19.7	12.1	(8.0)	(20.1)	---	---	---	---	---	(1.5)	(41.3)	---	---	---
1912	16.6	1.5	18.1	11.2	8.3	19.5	---	---	---	---	---	(1.2)	(38.8)	---	---	---
1913	16.5	1.5	18.1	10.7	9.5	20.2	---	---	---	---	---	(1.9)	(40.2)	---	---	---
1914	17.0	1.4	18.4	10.6	10.7	21.3	---	---	---	---	---	(3.8)	(43.5)	---	---	---
1915	17.2	1.4	18.6	11.5	10.0	21.5	---	---	---	---	---	(3.1)	(43.2)	---	---	---
1916	17.3	1.8	19.1	11.6	9.5	21.1	---	---	---	---	---	(2.0)	(42.2)	---	---	---
1917	15.7	2.7	18.4	10.0	10.8	20.8	---	---	---	---	---	(.9)	(40.1)	---	---	---
1918	14.1	3.3	17.4	11.8	10.5	22.3	---	---	---	---	---	(3.7)	(43.4)	---	---	---
1919	15.2	3.4	18.6	10.7	11.6	22.3	---	---	---	---	---	(2.4)	(43.3)	---	---	---
1920	14.9	3.4	18.3	12.0	7.6	19.6	---	---	---	---	---	(1.8)	(39.7)	---	---	---
1921	16.3	2.0	18.3	10.8	7.0	17.8	---	---	---	---	---	3.5	39.5	25.3	10.7	36.0
1922	17.1	1.7	18.8	13.3	6.7	20.0	---	---	---	---	---	4.4	43.1	28.9	10.6	39.5
1923	17.8	2.0	19.8	14.3	6.6	20.9	---	---	---	---	---	3.9	44.7	30.5	10.4	40.9
1924	17.8	2.0	19.8	14.2	7.0	21.2	---	---	---	---	---	4.3	45.5	30.3	11.3	41.6
1925	18.1	2.0	20.1	12.3	9.7	22.0	---	---	---	---	---	4.8	46.8	28.7	14.3	43.0
1926	18.3	2.0	20.3	12.2	9.5	21.7	---	---	---	---	---	5.6	47.7	28.8	15.0	43.8
1927	18.3	2.3	20.6	12.7	9.7	22.4	---	---	---	---	---	4.9	47.9	29.1	14.9	44.0
1928	17.6	2.6	20.2	13.2	9.3	22.5	---	---	---	---	---	5.0	47.7	29.0	15.0	44.0
1929	17.6	2.9	20.5	12.7	9.9	22.6	---	---	---	---	---	5.6	48.7	28.6	16.3	44.9
1930	17.6	2.6	20.2	12.7	9.8	22.5	---	---	---	---	---	6.2	48.8	28.3	16.7	45.0
1931	18.3	1.9	20.2	13.6	9.4	23.0	---	---	---	---	---	5.1	48.3	29.9	14.5	44.4
1932	18.5	1.6	20.1	14.4	7.5	21.9	---	---	---	---	---	4.8	46.8	30.3	12.6	42.9
1933	18.2	1.9	20.1	14.0	7.5	21.5	---	---	---	---	---	5.3	46.9	29.8	13.2	43.0
1934	18.6	2.1	20.7	13.0	9.5	22.5	---	---	---	---	---	5.4	48.5	29.5	15.0	44.5
1935	17.6	3.0	20.6	9.6	12.1	21.7	---	---	---	---	---	5.9	48.1	25.7	18.4	44.1
1936	16.8	3.1	19.9	11.3	12.3	23.6	---	---	---	---	---	6.0	49.5	26.9	18.8	45.7
1937	16.8	3.1	19.9	10.5	12.3	22.8	---	---	---	---	---	6.6	49.3	25.6	19.9	45.5
1938	16.6	3.0	19.6	11.1	11.5	22.6	---	---	---	---	---	6.9	49.1	26.2	19.1	45.3
1939	17.4	2.3	19.7	12.7	10.7	23.4	1.4	6/	6/	6/	5.8	7.2	50.3	28.3	18.1	46.4
1940	17.0	2.4	19.4	14.4	9.0	23.4	1.5	6/	6/	6/	5.9	7.4	50.2	29.7	16.7	46.4
1941	16.1	2.8	18.9	13.8	10.4	24.2	1.7	6/	6/	6/	6.5	8.2	51.2	28.9	18.7	47.6
1942	15.9	2.8	18.7	12.8	9.4	22.2	1.8	6/	6/	6/	5.8	7.6	48.5	28.2	16.7	44.9
1943	11.8	3.9	15.7	13.0	9.6	22.6	1.8	6/	6/	6/	4.9	6.7	45.0	24.4	17.1	41.5
1944	11.9	3.9	15.8	12.3	8.9	21.2	2.1	6/	6/	6/	4.8	6.9	43.9	23.5	17.4	40.9
1945	10.9	4.1	15.0	11.7	9.1	20.8	1.8	6/	6/	6/	4.4	6.2	42.0	21.9	17.2	39.1
1946	10.5	3.9	14.4	11.8	10.2	22.0	1.9	6/	6/	6/	4.5	6.4	42.8	21.2	18.8	40.0
1947	11.2	5.0	16.2	12.6	9.4	22.0	2.4	6/	6/	6/	4.5	6.9	45.1	23.5	18.5	42.0
1948	10.0	6.1	16.1	12.7	9.7	22.4	2.6	6/	6/	6/	4.5	7.1	45.7	22.4	20.2	42.6
1949	10.5	5.8	16.3	11.8	9.7	21.5	2.6	0.9	0.01	6/	4.4	7.9	45.7	22.1	20.4	42.5
1950	10.7	6.1	16.8	12.6	11.0	23.6	2.6	1.0	.02	6/	5.0	8.6	49.1	21.9	24.0	45.9
1951	9.6	6.6	16.2	12.3	9.0	21.3	2.6	1.0	.03	6/	4.1	7.7	45.2	22.2	19.9	42.1
1952	8.6	7.9	16.5	11.8	10.2	22.0	2.7	1.1	.04	0.03	4.8	8.7	47.3	21.3	22.8	44.1
1953	8.5	8.1	16.6	11.4	10.2	21.7	2.7	1.3	.04	.06	5.0	9.1	47.2	20.9	23.2	44.1
1954	8.9	8.5	17.4	10.2	11.8	22.0	2.6	1.4	.05	.07	5.4	9.5	48.8	19.7	25.8	45.5
1955	9.0	8.2	17.2	10.1	11.5	21.6	2.9	1.6	.11	.07	5.8	10.5	49.2	20.9	25.0	45.9
1956	8.7	8.2	16.9	9.8	10.9	20.7	3.0	1.8	.13	.07	5.9	10.9	48.5	21.4	23.8	45.2
1957	8.3	8.6	16.9	9.4	10.4	19.8	3.2	1.8	.09	.07	5.5	10.8	47.6	20.2	24.2	44.4
1958	8.3	9.0	17.3	9.6	11.3	20.9	3.3	1.8	.13	.08	5.2	10.5	48.7	20.1	25.2	45.3
1959	7.9	9.2	17.1	8.8	12.6	21.4	3.5	1.8	.12	.09	5.7	11.2	49.6	20.0	26.2	46.2
1960	7.5	9.4	16.9	7.6	12.6	20.2	3.5	1.8	.17	.09	5.9	11.5	48.5	18.5	26.7	45.2
1961	7.4	9.4	16.8	7.7	12.8	20.5	3.5	1.8	.19	.10	5.6	11.2	48.4	19.4	25.7	45.1
1962	7.3	9.3	16.6	7.2	13.4	20.6	3.5	1.8	.21	.10	6.1	11.7	48.8	18.7	27.0	45.7
1963 7/	6.9	9.3	16.2	6.4	13.3	19.8	3.6	1.8	.21	.10	8.4	14.1	49.9	18.1	28.8	46.9

1/ Civilian consumption only, beginning 1941. Figures in parentheses are approximations. Detail may not add to total because of rounding.
2/ Excludes use in margarine, shortening, and nonfood products.
3/ Estimated from data on production of item.
4/ Computed as a residual. During 1939-48 represents estimate of oil usage other than oil in mayonnaise and salad dressing. Beginning 1949 includes small quantities used for miscellaneous commercial food products.
5/ Table spreads and cooking fats plus oil content of other edible fats and oils.
6/ Not available.
7/ Preliminary.

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Table 12.--Fruits, summary: Per capita consumption,

Year	Citrus												Used fresh 7/	
	Used fresh 2/		Processed							Total citrus				
			Fresh equivalent farm and retail 3/							Fresh equivalent				
			Canned 4/		Frozen juice 5/	Chilled 6/		Total	Total retail					
	Farm	Retail	Fruit	Juice		Fruit	Juice			Farm	Retail	Retail	Farm	Retail
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	16.2	15.5	---	---	---	---	---	---	---	16.2	15.5	15.5	118.8	13..
1910	17.8	16.9	---	---	---	---	---	---	---	17.8	16.9	16.5	116.9	106.1
1911	19.8	18.7	---	---	---	---	---	---	---	19.8	18.7	18.7	132.8	120.4
1912	18.5	17.5	---	---	---	---	---	---	---	18.5	17.5	17.5	138.0	124.9
1913	16.6	15.8	---	---	---	---	---	---	---	16.6	15.8	15.8	113.6	103.1
1914	24.1	22.9	---	---	---	---	---	---	---	24.1	22.9	22.9	136.3	123.4
1915	23.1	21.9	---	---	---	---	---	---	---	23.1	21.9	21.9	131.4	118.8
1916	22.0	20.9	---	---	---	---	---	---	---	22.0	20.9	20.9	111.7	101.2
1917	22.0	20.9	---	---	---	---	---	---	---	22.0	20.9	20.9	107.8	97.6
1918	16.5	15.7	---	---	---	---	---	---	---	16.5	15.7	15.7	103.1	93.4
1919	23.5	22.3	---	---	---	---	---	---	---	23.5	22.3	22.3	98.8	89.6
1920	26.0	24.7	---	---	---	---	---	---	---	26.0	24.7	24.7	116.6	105.6
1921	30.5	28.9	---	---	---	---	---	---	9/	30.5	28.9	28.9	82.3	74.8
1922	24.6	23.3	9/	---	---	---	---	---	9/	24.6	23.3	23.3	120.2	108.9
1923	32.5	30.8	0.1	---	---	---	---	0.1	0.1	32.6	30.9	30.9	112.0	101.5
1924	33.9	32.2	.2	---	---	---	---	.2	.1	34.1	32.4	32.3	114.1	103.4
1925	28.9	27.4	.3	---	---	---	---	.3	.1	29.2	27.7	27.5	103.3	93.8
1926	31.4	29.9	.3	---	---	---	---	.3	.2	31.7	30.2	30.1	129.4	117.2
1927	32.2	30.5	.5	---	---	---	---	.5	.2	32.7	31.0	30.7	93.8	85.5
1928	29.5	27.9	.5	---	---	---	---	.5	.2	30.0	28.4	28.1	116.6	105.8
1929	39.8	37.7	.5	0.1	---	---	---	.6	.4	40.4	38.3	38.1	99.4	90.4
1930	31.2	29.6	.8	.2	---	---	---	1.0	.7	32.2	30.6	30.3	98.7	89.7
1931	42.3	40.0	1.2	.4	---	---	---	1.6	.3	43.9	41.6	40.3	118.0	107.0
1932	36.7	34.8	.5	.3	---	---	---	.8	.5	37.5	35.6	35.3	89.2	81.1
1933	39.4	37.4	.8	.5	---	---	---	1.3	.5	40.7	38.7	37.9	85.4	77.4
1934	39.8	37.7	.6	.8	---	---	---	1.4	.9	41.2	39.1	38.6	76.5	77.3
1935	44.6	42.4	1.2	2.4	---	---	---	3.6	1.4	48.2	46.0	43.8	88.6	91.8
1936	46.2	43.9	1.0	2.2	---	---	---	3.2	1.5	49.4	47.1	45.4	79.4	80.2
1937	44.5	42.2	1.4	4.7	---	---	---	6.1	2.3	50.6	48.3	44.5	94.1	100.5
1938	49.1	46.6	1.2	5.4	---	---	---	6.6	2.7	55.7	53.2	49.3	82.6	84.4
1939	61.4	58.2	1.4	8.5	---	---	---	9.9	3.6	71.3	68.1	61.8	86.8	90.4
1940	56.7	53.8	1.2	9.2	---	---	---	10.4	4.1	67.1	64.2	57.9	82.4	84.6
1941	57.7	54.8	1.7	13.1	---	---	---	14.8	5.8	72.5	69.6	60.6	88.3	92.0
1942	57.7	54.8	1.8	12.6	---	---	---	14.4	4.9	72.1	69.2	59.7	78.3	74.5
1943	60.3	57.2	.1	11.2	---	---	---	11.3	4.0	71.6	68.5	61.2	58.1	58.8
1944	68.2	64.8	9/	21.1	---	---	---	21.1	7.6	89.3	85.9	72.4	71.9	73.4
1945	66.6	63.1	.1	21.6	---	---	---	21.7	7.8	88.3	84.8	70.9	73.3	70.3
1946	59.1	56.1	1.1	34.8	0.3	---	---	36.2	13.2	95.3	92.3	69.3	74.8	75.5
1947	62.2	59.0	1.5	30.2	.2	---	---	31.9	11.9	94.1	90.9	70.9	81.5	80.6
1948	54.4	51.6	2.0	36.2	.5	---	---	38.7	14.4	93.1	90.3	66.0	77.2	76.3
1949	47.9	45.5	1.8	36.2	6.7	---	---	34.7	12.5	82.6	80.2	58.0	75.2	75.6
1950	41.3	39.2	1.5	19.8	10.8	---	---	32.1	11.0	73.4	71.3	50.2	57.3	57.5
1951	45.1	43.8	1.7	20.8	19.2	---	---	37.7	13.1	82.8	81.5	56.9	72.3	71.1
1952	44.4	42.1	1.5	17.0	21.5	---	---	40.0	12.7	84.4	82.1	54.8	69.4	67.3
1953	43.4	41.2	1.8	16.0	24.4	---	---	42.2	12.8	85.6	83.4	54.0	69.2	63.0
1954	41.2	39.2	1.9	15.8	27.1	---	---	44.6	13.2	86.0	84.0	52.4	63.2	61.2
1955	41.2	39.2	2.0	14.9	30.9	---	1.7	49.7	14.2	90.9	88.9	53.5	57.7	55.4
1956	38.5	37.0	2.0	14.3	30.3	0.4	2.0	49.0	14.2	87.5	86.0	51.2	59.9	57.8
1957	36.5	35.0	1.9	14.1	33.0	.5	3.1	52.2	15.0	88.7	87.2	50.0	59.7	57.4
1958	30.5	29.3	2.1	14.3	35.8	.5	3.3	46.0	14.2	76.5	75.3	43.5	53.2	60.6
1959	33.4	32.2	1.9	10.9	32.6	.6	3.2	48.8	13.6	82.2	81.0	45.8	63.7	61.3
1960	33.1	31.9	1.9	11.6	34.2	.8	3.6	52.1	14.9	85.2	84.0	46.8	61.4	58.7
1961	30.2	29.2	1.7	10.7	36.1	.8	3.9	48.2	13.5	78.4	77.4	42.7	59.1	57.2
1962	28.9	27.9	1.6	10.5	37.2	.8	3.7	54.0	14.6	82.9	81.9	42.5	56.0	54.2
1963 10/	22.1	21.4	1.2	10.0	29.3	.7	2.8	40.6	11.4	62.7	62.0	32.8	54.2	52.3

1/ See tables 13, 14, 15, 16, and 17 for product (retail) weight of individual items covered. Civilian consumption, beginning 1941.
2/ Beginning 1941, crop year beginning October or November prior to year indicated.
3/ Fresh weight equivalents derived from processed products using constant conversion factors for individual fruits, except juices
4/ Pack year beginning November prior to year indicated.
5/ Prior to 1946 small quantities of citrus juice included in miscellaneous other fruit.
6/ Chilled citrus segments and fruit juices produced commercially in Florida; does not include quantities produced for local sale,
7/ Beginning 1934. Farm weight data exclude apples from noncommercial areas; retail weight data include them. Beginning 1939,
8/ Data on pack year beginning midyear of year indicated.
9/ Less than 0.05 pound.
10/ Preliminary.

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Farm and retail weights, 1909-63

Noncitrus						Total noncitrus			All fruit							Year
Processed						Fresh equivalent			Used fresh		Processed		Total			
Fresh equivalent, farm and retail 3/													Fresh equivalent			
Canned		Frozen fruit 5/	Dried fruit 8/	Total 2/	Total, retail	Farm	Retail	Retail	Farm	Retail	Fresh equivalent	Retail	Farm	Retail	Retail	
Fruit	Juice															
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
---	---	---	---	---	7.	---	---	11[illegible].0	139.0	143.3	---	7.2	---	---	130.5	09
3.9	0.7	---	16.3	20.9	7.6	137.8	127.0	113.7	134.7	123.0	20.9	7.6	155.6	143.9	130.6	10
4.5	.3	---	14.9	19.7	8.4	15[illegible].5	140.1	128.8	152.6	139.1	19.7	8.4	172.3	158.8	147.5	11
4.9	.7	---	17.3	22.9	9.2	160.9	147.8	134.1	156.5	142.4	22.9	9.2	179.4	165.3	151.6	12
5.3	.5	---	18.0	23.8	8.2	137.4	126.9	111.3	130.2	118.9	23.8	8.2	154.0	142.7	127.1	13
6.2	.2	---	16.1	22.5	9.9	150.8	140.9	133.3	160.4	146.3	22.5	9.9	182.9	168.8	156.2	14
7.4	.9	---	17.9	26.2	11.2	157.6	149.0	130.0	154.5	140.7	26.2	11.2	180.7	166.9	151.9	15
8.3	.7	---	20.7	29.7	12.6	141.4	130.9	113.8	133.7	122.1	29.7	12.6	163.4	151.8	134.7	16
9.5	.5	---	23.1	33.1	14.3	140.9	130.7	111.9	129.8	118.5	33.1	14.3	162.9	151.6	132.8	17
9.7	.7	---	23.2	33.6	12.4	136.7	127.0	109.8	119.6	109.1	33.6	12.4	153.2	142.7	121.5	18
10.7	.4	---	21.7	32.8	16.9	131.6	122.4	106.9	122.3	111.9	32.8	16.9	155.1	144.7	123.8	19
11.7	.9	---	26.8	39.4	16.7	156.0	145.0	122.3	142.6	130.3	39.4	16.7	182.0	169.7	147.0	20
11.1	.5	---	24.4	36.0	14.0	128.3	119.8	86.8	117.8	103.7	36.0	14.0	148.8	139.7	117.7	21
10.0	.2	---	22.5	32.7	14.3	[illegible].9	141.6	123.[illegible]	144.8	132.[illegible]	32.7	14.3	177.5	164.9	146.5	22
10.2	.4	---	23.6	34.2	14.7	146.[illegible]	135.7	116.2	144.9	132.3	34.3	14.8	178.8	166.6	147.1	23
11.2	.2	---	22.1	33.5	15.3	141.6	136.9	116.7	140.0	129.6	33.7	15.4	181.7	169.3	151.0	24
12.5	.2	0.2	23.7	36.6	17.7	139.9	130.4	111.[illegible]	132.[illegible]	121.[illegible]	36.9	17.8	169.1	158.1	139.0	25
14.2	.3	.1	23.1	37.7	18.2	1[illegible].1	134.9	119.4	160.8	147.1	38.0	18.4	198.8	185.1	165.5	26
15.0	.5	.3	22.8	38.6	19.3	13[illegible].4	124.1	104.8	126.0	116.0	39.1	19.5	165.1	155.1	135.5	27
15.2	.2	.6	23.0	39.0	19.2	1[illegible].6	144.8	1[illegible].0	146.1	133.7	39.5	19.4	185.6	173.2	153.1	28
14.8	.4	.6	22.1	37.9	18.1	[illegible]7.3	1[illegible].3	108.5	139.[illegible]	128.1	38.5	18.5	177.7	166.6	146.6	29
15.2	.4	.6	20.0	36.2	18.4	[illegible]4.0	1[illegible].3	109.1	129.9	119.3	37.2	19.1	167.1	156.5	138.4	30
14.5	.4	.4	18.6	33.9	16.1	131.9	140.9	1[illegible].1	160.3	147.0	35.5	16.4	195.8	182.5	163.4	31
13.7	.5	.7	18.1	32.5	16.1	1[illegible].7	113.6	97.[illegible]	1[illegible].9	115.9	33.3	16.6	159.[illegible]	149.2	132.5	32
13.4	.4	.6	20.0	34.4	17.5	119.[illegible]	111.[illegible]	94.9	1[illegible].8	116.[illegible]	35.7	18.0	160.[illegible]	150.5	132.8	33
14.7	.4	.5	19.4	35.0	17.7	111.[illegible]	11[illegible].3	9[illegible].0	116.3	115.[illegible]	36.4	18.6	15[illegible].7	151.4	133.6	34
15.5	1.8	.6	19.5	37.4	20.4	1[illegible].0	1[illegible].7	11[illegible]	133.[illegible]	13[illegible]	41.0	21.8	174.[illegible]	175.2	156.0	35
17.9	2.6	.7	20.8	41.9	23.7	1[illegible].[illegible]	12[illegible].1	103.9	13[illegible].6	1[illegible].1	45.1	25.2	170.7	169.[illegible]	149.3	36
18.0	4.4	.5	20.0	42.9	22.0	14[illegible].0	143.4	1[illegible].5	138.6	12[illegible].7	49.0	24.3	187.6	191.7	167.0	37
17.0	4.2	1.1	20.5	42.8	23.8	1[illegible].4	1[illegible].[illegible]	108.[illegible]	131.7	131.0	49.4	26.5	181.1	180.4	157.5	38
18.4	4.7	1.1	21.6	45.8	25.9	[illegible].[illegible]	1[illegible].[illegible]	1[illegible].3	1[illegible].[illegible]	1[illegible].[illegible]	55.7	29.5	203.9	204.3	178.1	39
20.9	6.2	1.2	22.9	51.2	29.5	[illegible].[illegible]	13[illegible].[illegible]	11[illegible].1	139.1	13[illegible].[illegible]	61.6	33.6	200.7	200.0	172.0	40
21.5	6.0	1.4	19.4	48.3	26.1	1[illegible].[illegible]	140.9	11[illegible].1	146.0	1[illegible].[illegible]	63.1	31.9	209.1	209.9	178.7	41
20.3	6.0	1.4	14.8	42.5	26.6	11[illegible].[illegible]	117.[illegible]	101.1	1[illegible].0	1[illegible].[illegible]	56.9	31.5	186.9	186.[illegible]	160.5	42
14.9	5.1	1.[illegible]	17.0	38.[illegible]	23.0	[illegible].[illegible]	97.[illegible]	81.[illegible]	116.4	116.0	49.5	27.0	167.9	165.5	143.0	43
10.8	4.0	[illegible].[illegible]	[illegible].7	38.7	20.[illegible]	[illegible].[illegible]	11[illegible].1	[illegible].[illegible]	140.1	13[illegible].[illegible]	59.8	27.8	199.9	198.0	166.0	44
15.3	4.4	2.7	22.1	44.5	25.8	1[illegible].[illegible]	11[illegible].[illegible]	9[illegible].1	133.9	133.[illegible]	66.2	33.6	[illegible]06.1	199.6	167.0	45
24.3	7.[illegible]	3.6	19.8	55.2	34.5	13[illegible].[illegible]	130.7	11[illegible].[illegible]	133.[illegible]	131.6	91.[illegible]	47.7	[illegible]9.3	[illegible]23.0	179.3	46
20.[illegible]	6.8	3.4	15.3	45.7	28.8	1[illegible].[illegible]	1[illegible].3	109.4	143.7	139.6	77.6	40.7	[illegible]21.3	[illegible]17.[illegible]	180.3	47
[illegible].1	5.9	3.[illegible]	14.4	44.2	28.4	[illegible].[illegible]	1[illegible].[illegible]	10[illegible].7	131.[illegible]	1[illegible].9	82.9	42.8	[illegible]14.5	[illegible]10.8	170.7	48
20.0	6.[illegible]	[illegible].7	14.6	45.6	29.[illegible]	1[illegible].[illegible]	1[illegible].1[illegible]	109.5	1[illegible].[illegible]	1[illegible].1	80.3	42.4	[illegible]03.4	[illegible]01.4	163.5	49
[illegible].8	6.7	[illegible].9	14.6	49.0	32.8	[illegible].[illegible]	11[illegible].[illegible]	100.3	13[illegible].[illegible]	13[illegible].[illegible]	81.1	43.8	189.7	187.8	150.[illegible]	50
[illegible].0	7.0	[illegible].7	14.9	45.7	29.8	11[illegible].0	12[illegible].[illegible]	1[illegible].[illegible]	11[illegible].[illegible]	114.9	83.4	42.9	[illegible]00.8	196.3	157.6	51
[illegible].9	7.7	3.[illegible]	13.6	48.3	32.[illegible]	11[illegible].7	11[illegible].[illegible]	99.[illegible]	113.[illegible]	109.4	88.3	45.2	[illegible]0.1	197.7	154.6	52
[illegible].0	8.4	3.[illegible]	13.4	48.8	32.9	11[illegible].3	111.8	9[illegible].9	1[illegible].9	10[illegible].[illegible]	91.0	45.7	199.9	19[illegible].[illegible]	149.9	53
[illegible].6	7.7	3.1	13.4	47.8	32.4	111.[illegible]	1[illegible].[illegible]	9[illegible].[illegible]	1[illegible].[illegible]	1[illegible].[illegible]	92.6	45.6	197.0	193.0	146.0	54
[illegible].1	8.0	3.9	13.3	50.3	34.4	1[illegible].[illegible]	1[illegible].[illegible]	8[illegible].[illegible]	[illegible].9	[illegible].[illegible]	100.0	48.7	198.9	194.6	143.[illegible]	55
[illegible].4	9.7	4.[illegible]	12.7	51.0	35.3	11[illegible].9	1[illegible].[illegible]	[illegible].1	[illegible].4	[illegible].[illegible]	100.0	49.5	198.4	194.8	144.[illegible]	56
[illegible].4	10.3	3.8	12.5	52.0	36.1	111.7	19[illegible].[illegible]	[illegible].[illegible]	[illegible].[illegible]	[illegible].[illegible]	104.2	51.1	[illegible]0.4	196.6	143.[illegible]	57
[illegible].6	10.8	3.8	11.5	51.7	35.8	11[illegible].9	[illegible].[illegible]	[illegible].[illegible]	[illegible].7	[illegible].9	97.7	50.0	191.4	187.6	139.9	58
[illegible].2	10.9	3.5	10.9	50.6	35.8	11[illegible].[illegible]	111.[illegible]	[illegible].[illegible]	[illegible].1	[illegible].[illegible]	99.4	49.4	196.[illegible]	19[illegible].9	14[illegible].9	59
[illegible].9	11.5	3.7	11.1	[illegible].2	36.4	11[illegible].[illegible]	11[illegible].[illegible]	[illegible].1	[illegible].	[illegible].[illegible]	104.3	51.3	198.8	194.9	141.[illegible]	60
[illegible].3	11.[illegible]	3.7	10.8	[illegible].0	36.9	111.1	1[illegible].[illegible]	[illegible].1	[illegible].3	[illegible].[illegible]	100.2	50.4	189.[illegible]	186.[illegible]	136.[illegible]	61
[illegible].7	11.7	3.[illegible]	10.9	[illegible].2	36.6	10[illegible].[illegible]	10[illegible].[illegible]	90.[illegible]	[illegible].[illegible]	[illegible].1	106.2	51.2	191.1	18[illegible].[illegible]	13[illegible].3	62
26.6	13.[illegible]	[illegible].[illegible]	10.7	[illegible].[illegible]	38.5	10[illegible].[illegible]	1[illegible].[illegible]	[illegible].[illegible]	[illegible].[illegible]	[illegible].7	95.2	49.9	171.4	169.[illegible]	1[illegible].7	63

for which factors have been adjusted since 1948 to allow for increased yield.

such as fresh or reconstituted frozen juice. Data for pack year beginning September prior to year indicated.
noncommercial apples approximated on the basis of Census of Agriculture information.

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Table 13.--Fresh fruits: Per capita consumption,

Year	Citrus												Other						
	Oranges 2/		Tangerines		Tangelos, farm and retail	Lemons		Limes, farm and retail	Grapefruit		Total citrus		Apples 3/		Apricots, farm and retail	Avocados		Bananas	
	Farm	Retail	Farm	Retail		Farm	Retail		Farm	Retail	Farm	Retail	Farm	Retail		Farm	Retail	Farm	Retail
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	12.6	12.0	2/	2/	---	2.7	2.6	---	0.9	0.9	16.2	15.5	62.2	56.0	0.2	---	---	17.9	17.0
1910	13.7	13.0	2/	2/	---	3.1	2.9	---	1.0	1.0	17.8	16.9	69.4	53.5	.2	---	---	17.8	16.9
1911	15.4	14.6	2/	2/	---	3.3	3.1	---	1.1	1.0	19.8	18.7	73.5	66.2	.2	---	---	19.8	18.8
1912	14.3	13.6	2/	2/	---	3.1	2.9	---	1.1	1.0	18.5	17.5	74.6	67.1	.2	---	---	18.0	17.1
1913	12.0	11.4	2/	2/	---	2.8	2.7	---	1.8	1.7	16.6	15.8	59.3	53.4	.2	---	---	19.4	18.4
1914	18.8	17.9	2/	2/	---	3.2	3.0	---	2.1	2.0	24.1	22.9	71.8	64.6	.2	---	---	19.1	18.1
1915	17.6	16.7	2/	2/	---	3.2	3.0	---	2.3	2.2	23.1	21.9	69.0	62.1	.2	---	---	15.3	14.5
1916	16.5	15.7	2/	2/	---	3.2	3.0	---	2.3	2.2	22.0	20.9	63.9	57.5	.2	---	---	13.9	13.2
1917	17.1	16.2	2/	2/	---	2.5	2.4	---	2.4	2.3	22.0	20.9	56.1	50.5	.2	---	---	13.7	13.0
1918	10.5	10.0	2/	2/	---	2.9	2.8	---	3.1	2.9	16.5	15.7	56.9	51.2	.2	---	---	13.0	12.4
1919	17.0	16.2	2/	2/	---	3.2	3.0	4/	3.3	3.1	23.5	22.3	45.2	40.7	.2	---	---	14.9	14..
1920	16.7	15.9	0.4	0.4	---	3.8	3.6	4/	5.1	4.8	26.0	24.7	63.0	56.7	.2	---	---	15.7	14.9
1921	20.8	19.8	.6	.5	---	3.9	3.7	4/	5.2	4.9	30.5	28.9	36.1	32.5	.2	---	---	16.9	16.1
1922	15.2	14.4	.4	.4	---	3.7	3.5	4/	5.3	5.0	24.6	23.3	57.5	51.8	.2	---	---	17.5	16.6
1923	22.0	20.9	.6	.5	---	3.6	3.4	4/	6.3	6.0	32.5	30.8	54.7	49.2	.3	---	---	16.7	15.9
1924	23.0	21.8	.4	.4	---	3.8	3.6	0.1	6.6	6.3	33.9	32.2	54.1	48.7	.2	0.1	0.1	17.6	16.7
1925	17.5	16.6	.7	.6	---	4.0	3.8	.1	6.6	6.3	28.9	27.4	46.3	41.7	.2	.1	.1	20.0	19.0
1926	20.8	19.8	.5	.5	---	4.2	4.0	.1	5.8	5.5	31.4	29.9	62.3	56.1	.2	.1	.1	19.5	18.5
1927	22.1	21.0	.7	.6	---	3.1	2.9	4/	6.3	6.0	32.2	30.5	37.4	33.7	.3	4/	4/	20.9	19.9
1928	19.6	18.6	.6	.5	---	3.7	3.5	4/	5.6	5.3	29.5	27.9	48.9	44.0	.3	.1	.1	...4	21.3
1929	27.5	26.1	1.1	1.0	---	3.5	3.3	4/	7.7	7.3	39.8	37.7	39.7	35.7	.4	.1	.1	19.8	18.7
1930	19.9	18.9	.6	.5	---	4.1	3.9	4/	6.6	6.3	31.2	29.6	42.1	37.9	.4	.1	.1	20.6	19.6
1931	27.6	26.2	1.7	1.5	---	3.5	3.3	.1	9.4	8.9	42.3	40.0	51.7	46.5	.5	.1	.1	18.7	17.8
1932	24.6	23.4	1.4	1.3	---	3.2	3.0	.1	7.4	7.0	35.7	34.8	39.2	35.3	.5	.1	.1	18.6	18.0
1933	26.6	25.3	1.4	1.3	---	3.5	3.3	4/	7.9	7.5	39.4	37.4	40.0	36.0	.3	.1	.1	13.9	13..
1934	27.0	25.6	1.4	1.3	---	3.6	3.4	.1	7.7	7.3	39.8	37.7	33.3	30.4	.4	.2	.2	16.5	15.7
1935	30.7	29.2	1.4	1.3	---	4.1	3.9	.1	8.3	7.9	44.6	42.4	42.9	40.8	.4	.1	.1	18.9	18.0
1936	30.1	28.6	1.5	1.4	---	4.3	4.1	.1	10.2	9.7	46.2	43.9	27.6	32.6	.4	.2	.2	20.1	19.1
1937	26.6	25.3	2.1	1.9	---	3.4	3.2	.1	12.3	11.7	44.5	42.2	33.6	45.2	.5	.2	.2	23.0	21.8
1938	33.5	31.8	1.6	1.5	---	4.3	4.1	.1	9.6	9.1	49.1	46.6	28.2	34.4	.5	.3	.3	20..	19..
1939	41.1	39.0	2.3	2.1	---	4.2	4.0	.1	13.7	13.0	61.4	58.2	30.7	39.0	.5	.2	.2	18.9	17.9
1940	39.4	37.4	1.6	1.5	---	4.5	4.3	.1	11.1	10.5	56.7	53.8	29.7	36.4	.4	.3	.3	17.3	16.4
1941	38.9	37.0	1.8	1.6	---	4.7	4.5	.1	12.2	11.6	57.7	54.8	31.7	40.2	.4	.4	.4	16.6	15.8
1942	39.8	37.8	1.4	1.3	---	4.3	4.1	.1	12.1	11.5	57.7	54.8	28.1	34.5	.5	.3	.3	8.0	7.6
1943	39.7	37.7	2.9	2.6	---	5.0	4.8	.2	12.5	11.9	60.3	57.2	24.9	28.5	.5	.4	.4	6.9	6.6
1944	47.6	45.2	2.5	2.3	---	4.9	4.7	.2	13.0	12.4	68.2	64.8	25.5	31.3	6/.9	.3	.3	9.0	8.6
1945	45.1	42.8	2.7	2.5	---	5.1	4.8	.2	13.5	12.8	66.6	63.1	22.9	24.5	6/.7	.4	.4	11.1	10.5
1946	37.9	36.0	2.4	2.2	---	4.7	4.5	.1	14.0	13.3	59.1	56.1	23.0	28.4	6/.8	.3	.3	14.7	14.0
1947	41.5	39.4	1.9	1.7	---	4.8	4.6	.1	13.9	13.2	62.2	59.0	25.4	29.3	6/.6	.3	.3	1..	.0.4
1948	35.7	33.9	1.8	1.6	---	4.5	4.3	.1	12.3	11.7	54.4	51.6	26.3	29.4	6/.6	.3	.3	...4	22.3
1949	30.7	29.2	2.1	1.9	---	4.1	3.9	.1	10.9	10.4	47.9	45.5	24.7	29.2	6/.6	.3	.3	0.8	19.8
1950	26.9	25.6	2.0	1.8	---	4.0	3.8	.2	8.2	7.8	41.3	39.2	22.7	26.3	.5	.4	.4	0.9	19.9
1951	28.8	27.4	1.9	1.7	---	4.0	4.8	.1	10.3	9.8	45.1	43.6	25.7	28.2	.4	.5	.5	0..	19.5
1952	27.9	26.5	2.0	1.8	---	3.9	3.7	.1	10.5	10.0	44.4	42.1	21.6	23.3	.4	.5	.5	0..	19..
1953	27.6	26.3	2.0	2.0	---	3.7	3.5	.2	9.7	9.2	43.4	41.2	20.9	22.0	.4	.4	.4	19..	18..
1954	24.5	23.4	2.0	1.8	---	3.6	3.4	.1	11.0	10.5	41.2	39.2	20.0	21.2	.3	.8	.7	15.9	18.0
1955	24.8	23.7	2.1	1.9	---	3.4	3.2	.2	10.7	10.2	41.2	39.2	19.6	20.1	.4	.4	.4	17.6	16.9
1956	22.6	21.7	1.9	1.8	0.1	3.2	3.1	.2	10.5	10.1	38.5	37.0	18.9	19.7	.2	.3	.3	18.0	17.1
1957	21.6	20.7	1.8	1.7	.2	3.3	3.2	.1	9.5	9.1	36.5	35.0	19.3	19.9	.3	.7	.6	18.0	17.1
1958	17.6	16.9	.9	.8	.1	3..	2.9	.2	8.7	8.4	30.5	29.3	22.6	22.7	.2	.7	.6	17..	16.3
1959	19.8	19.1	1..	1.3	.1	2..	2.8	.1	9.1	8.8	33.4	32.2	23.0	23.1	.3	.9	.8	18.	17.3
1960	19.3	18.6	1.1	1.0	.2	2.9	2.8	.1	9.4	9..	33.1	31.9	20.1	20.0	.2	.4	.4	1.4	13.4
1961	16.1	15.6	1.2	1.1	.2	2.8	2.7	.1	9.3	9.0	30..	29..	18.5	18.8	.2	.6	.6	19..	18..
1962	15.7	15.2	1.3	1.2	.4	2.8	2.7	.1	8.6	8.3	28.9	27.9	19.4	19.7	.2	.5	.5	1...	19.4
1963 8/	12.0	11.6	.8	.8	.3	2..	2.4	.1	6..	6...	...	..4	18.4	18..	.2	..	..	1...	19..

1/ Calendar year basis except for citrus fruits beginning 1941, which start October or November prior to year indicated. Civilian consumption only.

2/ Tangerines included with oranges, 1909-19.

3/ Farm weight data beginning 193... include only apples from commercial areas sold and used in farm households. Retail weight data include apples from both

4/ Less than 0.05 pound.

5/ Estimated.

6/ Retail weight differs from farm weight; it is as follows: 1944, 0.8; 1945, 0.6; 1946, 0.7; 1947, 0.5; 1948, 0.5; and 1949, 0.5 pounds.

7/ In addition to items listed, includes 0.1 pound of papaya.

8/ Preliminary.

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farm and retail weights, 1909-63 1/

Noncitrus																					
Cherries		Cranberries, farm and retail	Figs, farm and retail	Grapes		Nectarines, farm and retail	Peaches		Pears		Pineapples		Plums and prunes		Strawberries		Total noncitrus		Total		Year
Farm	Retail			Farm	Retail		Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	
Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	
2.4	2.2	0.7	4/	8.0	7.2	---	14.9	13.3	4.4	4.0	5/0.8	5/0.7	3.1	2.8	4.2	3.7	118.8	107.8	135.0	123.3	09
2.3	2.1	.6	4/	5.3	4.8	---	18.5	16.5	5.3	4.8	5/0.8	5/.7	2.7	2.4	4.0	3.6	116.9	106.1	134.7	123.0	10
3.4	3.1	.5	4/	7.8	7.0	---	13.5	12.0	5.7	5.1	.8	.7	3.8	3.4	3.8	3.4	132.8	120.4	152.6	139.1	11
3.6	3.3	.5	4/	6.7	6.0	---	20.3	18.1	5.9	5.3	.8	.7	3.7	3.3	3.7	3.3	138.0	124.9	156.5	142.4	12
2.1	1.9	.5	4/	4.9	4.4	---	15.0	13.4	4.9	4.4	.9	.8	2.8	2.5	3.6	3.2	113.6	103.1	130.2	118.9	13
3.5	3.2	.7	4/	7.5	6.8	---	19.6	17.4	5.7	5.1	.9	.8	3.9	3.5	3.4	3.0	136.3	123.4	160.4	146.3	14
3.0	2.7	.5	4/	6.3	5.7	---	23.8	21.2	5.4	4.9	.8	.7	3.8	3.4	3.3	2.9	131.4	118.8	154.5	140.7	15
2.6	2.4	.6	4/	5.5	5.0	---	12.9	11.5	5.0	4.5	.6	.5	3.4	3.0	3.1	2.8	111.7	101.4	133.7	122.1	16
2.1	1.9	.3	4/	7.5	6.8	---	15.6	13.9	5.8	5.2	.6	.5	2.9	2.6	3.0	2.7	107.8	97.6	129.8	118.5	17
2.1	1.9	.4	4/	5.3	4.8	---	13.1	11.7	5.5	5.0	.6	.5	3.2	2.8	2.8	2.5	103.1	93.4	119.6	109.1	18
1.8	1.6	.6	4/	8.2	7.4	---	16.3	14.5	5.5	5.0	.4	.3	2.2	2.0	3.5	3.1	98.8	89.6	122.3	111.9	19
2.7	2.5	.4	4/	8.0	7.2	---	14.0	12.5	6.7	6.0	.6	.5	2.1	1.9	3.2	2.8	116.6	105.6	144.6	130.3	20
1.2	1.1	.4	4/	6.5	5.8	---	9.7	8.6	4.5	4.1	.7	.6	2.4	2.1	3.7	3.3	de.3	74.8	114.8	103.7	21
2.5	2.3	.5	4/	8.9	8.0	---	18.1	16.1	7.1	6.4	.7	.6	2.5	2.2	4.7	4.2	120...	108.9	134.8	122...	22
2.3	2.1	.6	4/	9.0	8.1	---	13.2	11.7	6.1	5.5	.9	.8	3.7	3.3	4.5	4.0	114.0	101.5	144.5	132.3	23
1.9	1.7	.5	4/	9.0	8.1	---	16.5	14.7	6.4	5.8	1.0	.8	2.1	1.9	4.7	4.2	114.1	103.4	148.0	135.6	24
1.8	1.6	.5	4/	8.3	7.5	---	12.7	11.3	6.0	5.4	1.2	1.0	2.5	2.2	3.7	3.3	103.3	93.6	134.2	121.[illegible]	25
2.5	2.3	.6	4/	9.7	8.7	---	18.1	16.1	7.8	7.0	1.2	1.0	3.5	3.1	3.9	3.5	129.4	117.2	160.8	147.1	26
1.4	1.3	.4	4/	9.1	8.2	---	10.7	9.5	5.5	5.0	.9	.8	2.8	2.5	4.4	3.9	93.8	83.5	126.0	116.0	27
1.8	1.6	.4	4/	10.9	9.8	---	16.5	14.7	6.8	6.1	.8	.7	3.3	2.9	4.4	3.9	116.6	105.8	146.1	133.7	28
1.3	1.2	.4	0.1	9.1	8.2	---	13.0	11.6	5.7	5.1	.9	.8	2.5	2.2	4.4	3.9	99.4	90.4	139.2	128.1	29
1.2	1.1	.4	.1	8.7	7.8	---	10.3	9.2	6.7	6.0	1.0	.8	3.8	3.4	3.3	2.9	98.7	89.7	129.9	119.3	30
1.4	1.3	.5	.1	8.4	7.5	---	21.5	19.1	7.2	6.5	1.1	.9	2.8	2.5	4.0	3.6	118.0	107.0	160.3	147.0	31
1.7	1.5	.4	.1	7.8	7.0	---	9.3	8.3	5.3	4.8	.9	.8	2.8	2.5	4.3	3.8	89.2	81.1	125.9	115.9	32
1.5	1.4	.5	.1	6.9	6.2	---	10.0	8.9	5.1	4.6	.6	.5	2.3	2.0	4.1	3.6	85.4	77.4	124.8	114.8	33
1.2	1.1	.3	.1	7.4	6.7	---	11.3	10.1	6.8	6.1	.6	.5	2.9	2.6	3.5	3.1	76.5	77.3	116.3	115.0	34
1.2	1.1	.3	.1	7.4	6.7	---	14.5	12.9	6.2	5.6	.6	.5	2.5	2.2	3.5	3.1	88.6	91.8	133.2	134.2	35
1.0	.9	.3	.1	6.3	5.7	0.1	10.9	9.7	6.0	5.4	.8	.7	2.7	2.4	2.9	2.6	79.4	80.2	125.6	124.1	36
1.0	.9	.4	.1	7.4	6.7	.1	14.2	12.6	6.6	5.9	1.0	.8	2.6	2.3	3.4	3.0	94.1	100.5	138.6	142.7	37
1.0	.9	.3	.1	5.6	5.0	.1	13.1	11.7	6.4	5.8	.9	.8	2.7	2.4	2.9	2.6	84.6	84.4	131.7	131.0	38
1.2	1.1	.4	.1	6.0	5.4	.2	15.3	13.6	6.5	5.9	.9	.8	2.7	2.4	3.3	2.9	86.8	90.4	146.2	148.6	39
1.1	1.0	.3	.1	6.3	5.7	.1	13.1	11.7	7.1	6.4	.8	.7	2.5	2.2	3.3	2.9	84.4	84.6	139.1	138.4	40
1.1	1.0	.4	.1	6.2	5.6	.1	18.6	16.6	6.4	5.8	.8	.7	2.4	2.1	3.1	2.8	88.3	92.0	146.0	146.8	41
1.1	1.0	.3	.1	6.2	5.6	.2	14.6	13.0	6.7	6.0	.4	.3	2.4	2.1	3.4	3.0	72.3	74.5	130.0	129.3	42
.9	.8	.3	.1	5.6	5.0	.2	8.4	7.5	5.4	4.9	.5	.4	2.2	2.0	1.8	1.6	58.1	58.8	118.4	116.0	43
1.3	1.2	.2	.1	4.9	4.4	.2	17.9	15.9	7.1	6.4	.6	.5	2.7	2.4	1.2	1.1	71.9	73.4	140.1	138.2	44
1.1	1.0	.2	.1	5.6	5.0	.2	18.2	16.2	7.3	6.6	.9	.8	2.3	2.0	1.3	1.2	73.3	70.3	139.9	133.4	45
1.0	.9	.2	4/	5.7	5.1	.2	16.6	14.8	6.8	6.1	1.2	1.0	2.7	2.4	1.6	1.4	74.8	75.5	132.9	131.6	46
.9	.8	.2	4/	6.6	5.9	.2	14.8	13.2	5.9	5.3	.9	.8	2.3	2.0	1.9	1.7	81.5	80.6	143.7	139.6	47
.8	.7	.3	4/	5.8	5.2	.2	11.3	10.1	4.4	4.0	.8	.7	2.1	1.9	1.8	1.6	77.2	76.3	131.6	127.9	48
1.1	1.0	.4	.1	5.2	4.7	.2	11.6	10.3	5.5	5.0	.7	.6	2.4	2.1	1.6	1.4	75.2	75.6	123.1	121.1	49
.8	.7	.4	.1	5.4	4.9	.2	7.8	6.9	4.1	3.7	.8	.7	1.8	1.6	1.6	1.4	67.3	67.5	108.6	106.7	50
.7	.6	.3	.1	5.9	5.3	.1	9.4	8.4	4.0	3.6	.6	.5	2.3	2.0	1.8	1.6	72.3	71.1	117.4	114.9	51
.8	.7	.3	4/	6.0	5.4	.2	10.7	9.5	4.4	4.0	.6	.5	1.7	1.5	1.6	1.4	69.4	67.3	113.8	109.4	52
.7	.6	.3	4/	4.8	4.3	.2	10.3	9.2	3.9	3.5	.6	.5	2.1	1.9	1.4	1.2	65.5	63.0	108.9	104.2	53
.7	.6	.3	4/	5.1	4.6	.2	10.0	9.0	3.7	3.4	.6	.5	1.4	1.3	1.2	1.1	63.2	61.2	104.4	100.4	54
.7	.6	.3	4/	5.0	4.5	.3	6.1	5.5	3.4	3.1	.7	.6	1.8	1.6	1.2	1.1	57.7	55.4	98.9	94.6	55
.5	.5	.3	4/	4.7	4.2	.2	9.0	8.2	3.7	3.4	.7	.6	1.9	1.7	1.5	1.4	59.9	57.8	98.4	94.8	56
.6	.5	.3	4/	3.9	3.5	.4	8.6	7.9	3.7	3.4	.6	.5	1.6	1.5	1.7	1.5	59.7	57.4	96.2	92.4	57
.5	.5	.3	4/	4.1	3.7	.3	10.5	9.7	3.5	3.3	.6	.5	1.2	1.1	1.5	1.4	63.2	60.6	93.7	89.9	58
.4	.4	.2	4/	3.9	3.5	.4	9.7	9.0	3.2	3.0	.5	.5	1.7	1.6	1.3	1.2	63.7	61.3	97.1	93.5	59
.4	.4	.2	4/	3.9	3.5	.5	9.5	8.7	2.6	2.4	.6	.6	1.2	1.1	1.3	1.2	7/61.4	7/58.7	7/94.5	7/90.6	60
.5	.5	.3	4/	3.4	3.1	.5	9.5	8.9	2.5	2.4	.5	.5	1.4	1.3	1.6	1.5	7/59.1	7/57.2	7/89.3	7/86.4	61
.5	.4	.3	4/	4.0	3.6	.5	8.1	7.6	2.7	2.6	.5	.5	1.4	1.3	1.6	1.5	7/56.0	7/54.2	7/84.9	7/82.1	62
.4	.4	.2	4/	3.7	3.4	.5	7.6	7.1	2.6	1.9	.5	.5	1.5	1.4	1.6	1.5	7/54.0	7/52.3	7/76.1	7/73.7	63

beginning 1941. Conversion factors used to derive retail weights from farm weights are indicated in table 6.

commercial and noncommercial areas; beginning 1939 supplies of apples from noncommercial areas approximated on the basis of Census of Agriculture information.

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weight of processed fruits to first the farm and then the retail weight of fresh fruits. A fresh fruit table gives farm and retail weights of individual fruits (table 13). Additional tables by type of processing--canned and chilled, frozen, and dried--give consumption in product weights (tables 14-17).

The primary level for fresh fruits is first sale from the farm as reported by the Statistical Reporting Service (SRS). Estimates of unrecorded commercial production and use on farms where produced are included. No estimates have been made for production from farms or backyards having less than 20 trees or vines nor for production of minor fruits not reported by SRS. Processed fruits and juices are first measured after initial processing; no further weight loss to the retail level is assumed. Weights are net of containers in which they are sold but include miscellaneous ingredients such as sugar and salt. Fruits used as ingredients in final consumer products that combine several primary foods--such as pies, jelly, ice cream, and fruit drinks--are measured before final processing. Single-strength equivalents are estimated for all juice concentrates; fresh equivalents are estimated for all processed forms. Fruits used for wine are excluded from food use.

Weight losses in the marketing of fresh fruits have been reduced over the years through advances in speed and methods of marketing. Packaging into consumer-sized containers immediately after picking has become more common; consequently, handling losses have been reduced. Increased culling at the farm results in weight loss that reduces reported farm production. Previously, these losses would have occurred in the marketing system. In addition, closer grading of fresh produce sometimes diverts quantites to processed products that previously would have been lost by spoilage before sale at retail. Immediate refrigeration and more rapid transportation have reduced losses in the marketing channel. Efficient handling by supermarkets and fast movement through air-conditioned, high-volume stores cut losses further.

For these reasons, loss factors previously used to convert fresh fruits from farm to equivalent retail weights were reexamined. As a result of an industry survey and consultations with commodity specialists, new factors were developed and introduced over a 10-year period (table 6.) This procedure assumed gradual adoption of improved methods of marketing.

Banana consumption data were revised to eliminate weight of stems and to reflect new information in postwar years. Prior to 1962, the Bureau of the Census reported numbers of stems imported. New information on average weight of bananas per stem has recently become available, largely from a special research study conducted at Harvard University. Since about half of the bananas in 1963 were imported as destemmed boxed fruit, the consumption data at the primary level are now reported on a destemmed basis for all years. The Census Bureau now reports imports in terms of pounds and the transition to boxed fruit was virtually completed by the end of 1964. The marketing loss incurred between primary and retail levels was adjusted to coincide with the destemmed basis.

Reporting of production (farm weight) of apples from noncommercial areas was discontinued in 1934 because of statutory limitation. This change introduced an inconsistency in time-series data at 1934. Estimates of consumption in retail weight were continued, however. Consumption from unreported production was estimated by comparing commercial production with the total reported by the Census of Agriculture. All apples produced in noncommercial areas were assumed to be used fresh. Accordingly, the usual loss factor for conversion from farm to retail weight was applied before it was added to the retail-weight equivalent of apples coming from commercial areas. Because of the exclusion of apples from noncommercial areas in early years, total retail weight of all fruits exceeds the reported total farm weight for some years in the late 1930's (tables 12 and 13).

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Table 14.--Canned and chilled fruits: Per capita consumption, 1909-63 1/

Year	Canned fruit														Chilled citrus segments 3/
	Apples and applesauce	Apricots	Berries	Cherries	Cranberries	Figs	Salad and cocktail	Peaches (including spiced)	Pears	Pineapple 2/	Plums and prunes	Olives	Citrus segments	Total 2/	
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	0.7	0.4	0.2	0.1	---	4/	---	0.6	0.4	5/0.3	0.1	5/0.2	---	3.0	---
1910	.7	.4	.3	.1	---	4/	---	.9	.4	.5	.1	.2	---	3.6	---
1911	.6	.5	.3	.2	---	4/	---	.8	.4	.6	.1	.4	---	3.9	---
1912	.7	.5	.3	.2	---	4/	---	.8	.5	.8	.1	.3	---	4.2	---
1913	.5	.4	.3	.1	---	4/	---	.9	.5	1.1	.1	.3	---	4.2	---
1914	.7	.6	.4	.2	---	4/	---	1.2	.5	1.7	.1	.3	---	5.7	---
1915	.5	.4	.4	.2	---	4/	---	1.0	.6	2.0	.1	.4	---	5.6	---
1916	1.1	.6	.4	.2	---	4/	---	1.2	.7	2.3	.2	.4	---	7.1	---
1917	1.5	.9	.5	.3	---	4/	---	1.5	.8	1.8	.2	.2	---	7.7	---
1918	1.2	.9	.5	.3	---	4/	---	1.2	.9	2.0	.2	.3	---	7.5	---
1919	1.1	1.8	.7	.4	4/	4/	---	2.1	1.0	1.9	.3	.4	---	9.7	---
1920	.9	.9	.6	.5	4/	4/	---	2.1	1.1	2.8	.2	.3	---	9.4	---
1921	1.0	.7	.6	.2	4/	4/	---	1.9	.4	2.9	.2	.3	4/	8.2	---
1922	.8	.6	.6	.5	4/	4/	---	2.0	.3	2.2	.2	.3	4/	7.5	---
1923	1.1	.5	.6	.6	4/	0.1	0.1	2.4	.4	2.5	.1	.5	0.1	9.0	---
1924	.9	.5	.8	.6	0.1	.1	.2	2.1	.3	2.7	.1	.4	.1	8.9	---
1925	.9	.7	.6	.6	4/	.2	.2	3.2	.6	3.4	.2	.4	.1	11.1	---
1926	.9	.8	.8	.9	.1	.2	.2	3.2	.9	3.2	.2	.4	.2	12.0	---
1927	.8	.7	.7	.4	.1	.2	.3	4.2	.7	3.6	.2	.5	.2	12.6	---
1928	1.0	.8	.7	.7	.1	.2	.3	3.7	.7	3.3	.3	.6	.2	12.6	---
1929	1.1	.8	.7	.7	.1	.1	.4	2.9	.9	3.2	.4	.6	.4	12.3	---
1930	.8	.8	.5	.8	.1	.1	.4	3.2	.9	3.8	.3	.5	.6	12.8	---
1931	.7	.6	.7	.7	.1	.1	.2	2.0	.7	4.1	.3	.5	.2	10.9	---
1932	.8	.6	.3	.7	.1	4/	.3	2.8	.9	2.7	.2	.4	.4	10.2	---
1933	.9	.7	.4	1.0	.1	4/	.5	2.6	1.0	3.5	.4	.4	.3	11.8	---
1934	1.0	.7	.5	.8	.2	.1	.5	2.6	1.0	3.6	.4	.5	.6	12.5	---
1935	1.0	.7	.5	1.0	.2	4/	.7	2.8	1.0	3.9	.6	.5	.5	13.4	---
1936	1.2	1.0	.5	1.1	.3	.1	.9	3.5	1.3	4.9	.7	.5	.7	16.7	---
1937	1.0	1.0	.3	1.0	.3	.1	.9	2.7	1.1	3.5	.6	.4	.6	13.5	---
1938	1.1	1.0	.5	1.0	.4	.1	1.1	3.5	1.2	3.6	.5	.6	.8	15.4	---
1939	1.2	.9	.4	1.2	.5	.1	1.2	3.5	1.1	4.3	.6	.5	.6	16.1	---
1940	1.5	.9	.4	1.4	.6	.1	1.6	4.4	1.5	4.7	.5	.7	.8	19.1	---
1941	1.4	1.0	.5	1.3	.5	.1	1.5	3.3	1.5	4.4	.6	.6	1.1	17.8	---
1942	1.7	1.1	.6	1.1	.6	.3	1.9	4.4	1.3	2.8	.6	.6	.3	17.3	---
1943	1.6	.3	.4	.7	.3	.2	1.3	3.2	1.4	2.0	.6	.6	4/	12.6	---
1944	1.0	1.0	.1	.9	.3	.1	1.0	1.3	.4	2.0	.5	.7	4/	9.3	---
1945	1.1	1.3	.1	.8	.5	.3	2.4	4.9	.9	.8	.7	.6	4/	14.4	---
1946	1.4	2.8	.2	1.8	.8	.2	2.7	5.4	1.7	3.4	.7	.7	.5	22.3	---
1947	1.7	.9	.3	1.0	.8	.3	2.1	4.5	1.2	3.3	.6	.7	.8	18.2	---
1948	1.9	1.0	.5	1.2	.4	.1	2.2	4.6	1.2	3.4	.5	.8	1.0	18.8	---
1949	2.1	1.1	.6	1.4	.5	.1	2.3	4.9	1.4	3.4	.5	.5	.9	19.7	---
1950	2.4	1.1	.4	1.8	.7	.1	2.6	5.9	1.6	3.4	.4	.8	.8	22.0	---
1951	2.3	.9	.4	1.4	.8	.2	2.0	4.8	1.2	3.5	.3	.8	.9	19.5	---
1952	2.7	.9	.4	1.5	.8	.2	2.4	5.1	1.7	3.3	.4	.9	.7	21.0	---
1953	2.4	1.1	.4	1.5	.8	.1	2.1	5.3	1.7	3.6	.5	.9	.9	21.3	---
1954	2.5	1.0	.4	1.4	.8	.1	2.1	5.6	1.7	3.4	.4	.7	1.0	21.1	---
1955	2.8	1.1	.3	1.5	.9	.1	2.4	5.5	1.9	3.5	.5	.9	1.2	22.6	---
1956	3.1	1.1	.3	1.2	.9	.1	2.6	5.3	1.6	3.4	.5	.6	1.1	21.8	0.2
1957	3.1	1.0	.3	1.3	.8	.1	2.6	5.8	1.8	3.4	.5	.9	.8	22.4	.3
1958	3.3	.9	.3	1.3	.9	.1	2.6	5.8	2.0	3.3	.4	.8	1.1	22.8	.2
1959	3.2	.9	.3	1.3	.8	.1	2.7	5.9	1.9	3.3	.3	.8	.8	22.3	.2
1960	3.4	1.0	.2	1.2	.6	.1	2.7	6.1	2.0	3.4	.3	.8	1.0	22.8	.4
1961	3.6	1.2	.2	1.2	1.0	.1	2.7	6.2	1.8	3.3	.2	1.0	.9	23.4	.4
1962	3.4	.9	.2	1.2	.8	.1	2.8	6.3	2.1	3.0	.4	.8	.9	22.9	.4
1963 6/	3.6	1.1	.1	1.0	.8	.1	2.8	6.5	2.0	3.3	.3	.9	.6	23.1	.3

1/ Data on pack year, 1909-42; calendar-year basis, 1943 to date. Civilian consumption beginning 1941.
2/ Includes frozen pineapple.
3/ Produced commercially in Florida; does not include quantities produced for local sale.
4/ Less than 0.05 pound.
5/ Estimated.
6/ Preliminary.

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Table 15.--Canned and chilled fruit juices (excluding frozen): Per capita consumption, 1910-63 1/

Year	Canned															Chilled 2/		
	Citrus							Noncitrus										
	Orange	Grapefruit	Blended orange and grapefruit	Lemon and lime	Tangerine	Citrus concentrate 3/	Total	Berry	Apple	Fruit nectars	Grape	Pineapple: Single strength	Pineapple: Concentrate 3/	Prune	Total 4/	Total canned	Orange	Grapefruit	Total chilled
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1910	---	---	---	---	---	---	---	---	---	---	0.47	---	---	---	0.47	0.47	---	---	---
1911	---	---	---	---	---	---	---	---	---	---	.18	---	---	---	.18	.18	---	---	---
1912	---	---	---	---	---	---	---	---	---	---	.45	---	---	---	.45	.45	---	---	---
1913	---	---	---	---	---	---	---	---	---	---	.34	---	---	---	.34	.34	---	---	---
1914	---	---	---	---	---	---	---	---	---	---	.12	---	---	---	.12	.12	---	---	---
1915	---	---	---	---	---	---	---	---	---	---	.61	---	---	---	.61	.61	---	---	---
1916	---	---	---	---	---	---	---	---	---	---	.44	---	---	---	.44	.44	---	---	---
1917	---	---	---	---	---	---	---	---	---	---	.31	---	---	---	.31	.31	---	---	---
1918	---	---	---	---	---	---	---	---	---	---	.45	---	---	---	.45	.45	---	---	---
1919	---	---	---	---	---	---	---	---	---	---	.28	---	---	---	.28	.28	---	---	---
1920	---	---	---	---	---	---	---	---	---	---	.59	---	---	---	.59	.59	---	---	---
1921	---	---	---	---	---	---	---	---	---	---	.34	---	---	---	.34	.34	---	---	---
1922	---	---	---	---	---	---	---	---	---	---	.16	---	---	---	.16	.16	---	---	---
1923	---	---	---	---	---	---	---	---	---	---	.29	---	---	---	.29	.29	---	---	---
1924	---	---	---	---	---	---	---	---	---	---	.12	---	---	---	.12	.12	---	---	---
1925	---	---	---	---	---	---	---	---	---	---	.16	---	---	---	.16	.16	---	---	---
1926	---	---	---	---	---	---	---	---	---	---	.17	---	---	---	.17	.17	---	---	---
1927	---	---	---	---	---	---	---	---	---	---	.32	---	---	---	.32	.32	---	---	---
1928	---	---	---	---	---	---	---	---	---	---	.13	---	---	---	.13	.13	---	---	---
1929	---	0.05	---	---	---	---	0.05	---	---	---	.28	---	---	---	.28	.33	---	---	---
1930	0.01	.05	---	---	---	---	.06	---	---	---	.27	---	---	---	.27	.33	---	---	---
1931	.02	.11	---	---	---	---	.13	---	---	---	.30	---	---	---	.30	.43	---	---	---
1932	.01	.11	---	---	---	---	.12	---	---	---	.31	---	---	---	.31	.43	---	---	---
1933	.02	.16	---	---	---	---	.18	---	---	---	.27	---	---	---	.27	.45	---	---	---
1934	.07	.21	---	---	---	---	.28	---	---	0.01	.22	---	---	0.01	.24	.52	---	---	---
1935	.22	.62	---	0.01	---	---	.85	---	---	.01	.29	0.82	---	.02	1.14	1.99	---	---	---
1936	.70	.56	0.02	.01	---	---	.79	---	---	.05	.35	1.17	---	.04	1.61	2.40	---	---	---
1937	.28	1.29	.06	.04	---	---	1.67	---	---	.20	.39	2.05	---	.18	2.82	4.49	---	---	---
1938	.19	1.55	.12	.05	---	---	1.91	---	---	.26	.42	1.85	---	.20	2.73	4.64	---	---	---
1939	.23	2.61	.15	.03	---	---	3.02	---	0.05	.13	.54	2.11	---	.07	2.90	5.92	---	---	---
1940	.68	2.34	.25	.02	---	---	3.29	0.37	.10	.24	.65	2.52	---	.06	3.94	7.23	---	---	---
1941	.74	3.08	.42	.04	---	0.42	4.70	.03	.20	.25	.59	2.67	---	.06	3.80	8.50	---	---	---
1942	.94	2.63	.1.	.08	---	.44	4.57	.05	.37	.34	.64	2.14	---	.43	3.97	8.54	---	---	---
1943	.27	3.03	.27	.02	---	.43	4.02	.08	.44	.14	.73	1.58	---	.46	3.41	7.43	---	---	---
1944	1.46	4.80	1.11	.03	---	.19	7.59	.07	.62	.21	.73	.94	---	.57	2.74	10.33	---	---	---
1945	2.75	3.19	1.08	.06	---	.76	7.84	.32	.26	.06	.43	1.12	---	.89	3.10	10.94	---	---	---
1946	4.15	4.93	2.36	.10	0.11	.97	12.62	.86	.35	.19	.49	2.36	---	.90	5.15	17.77	---	---	---
1947	4.11	3.38	2.18	.07	.21	1.09	11.04	.35	.26	.29	.68	2.26	---	.75	4.59	15.63	---	---	---
1948	5.03	3.83	2.28	.08	.16	1.88	13.26	5/	.20	.37	.65	1.85	---	.74	3.81	17.07	---	---	---
1949	3.87	2.84	1.86	.10	.22	1.82	10.71	5/	.47	.55	.57	1.97	---	.80	4.36	15.07	---	---	---
1950	3.37	2.02	1.01	.07	.23	1.95	8.65	5/	.56	.92	.50	1.82	---	.92	4.73	13.38	---	---	---
1951	3.81	2.73	1.30	.08	.20	1.85	9.97	5/	.50	.83	.50	2.24	---	.78	4.85	14.82	---	---	---
1952	3.58	2.04	.95	.09	.15	1.63	8.44	5/	.54	.61	.82	2.49	---	.87	5.33	13.77	---	---	---
1953	3.13	1.97	.86	.09	.13	1.65	7.83	5/	.51	.56	.74	2.97	---	.94	5.72	13.55	---	---	---
1954	3.08	2.28	.89	.08	.10	1.36	7.79	5/	.71	.57	.73	2.38	---	.97	5.36	13.15	---	---	---
1955	2.95	2.18	.78	.11	.09	1.16	7.27	5/	.54	.73	.73	2.60	---	1.01	5.61	12.88	0.94	---	0.94
1956	2.42	2.12	.66	.09	.09	1.58	6.96	5/	.66	1.27	.85	2.86	---	1.26	6.90	13.86	1.05	0.07	1.12
1957	2.45	1.94	.58	.12	.09	1.66	6.84	5/	.68	1.37	.59	2.62	0.79	1.21	7.26	14.10	1.72	.05	1.77
1958	2.66	1.74	.72	.12	.08	1.62	6.94	5/	.77	1.24	.84	2.27	1.29	1.05	7.46	14.40	1.60	.04	1.64
1959	1.91	1.56	.49	.15	.08	1.07	5.26	5/	.97	1.38	1.25	1.86	1.27	.87	7.60	12.86	1.87	.03	1.90
1960	2.12	1.51	.51	.13	.07	1.45	5.79	5/	.90	1.39	1.29	2.12	1.28	1.06	8.01	13.80	2.10	.02	2.12
1961	1.70	1.39	.45	.13	.06	1.51	5.24	5/	.95	1.35	1.22	2.03	1.19	1.05	7.79	13.03	1.65	.03	1.68
1962	1.92	1.48	.47	.13	.06	1.05	5.11	5/	1.05	1.34	1.19	2.05	1.20	1.05	7.88	12.99	2.19	.08	2.27
1963 6/	1.69	1.30	.42	.13	.04	1.70	5.28	5/	1.23	1.32	1.19	2.58	1.74	1.06	9.12	14.40	1.14	.03	1.17

1/ Civilian consumption beginning 1941. Calendar-year basis except for citrus juices and grape juice 1909-33 and 1948 to date which are on a pack-year basis beginning in November of year prior to that indicated.

2/ Chilled fruit juice produced commercially from fresh fruit in Florida; does not include reconstituted frozen juice or fresh juice produced for local sale.

3/ Single-strength equivalent.

4/ Includes frozen pineapple juice.

5/ Not available.

6/ Preliminary.

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Table 1b.—Frozen fruits and juices: Per capita consumption, 1925-63 1/

Year	Fruits													Citrus Juice 3/						Total (product weight)
	Berries					Other Fruit								Orange		Other 5/		Total		
	Black-berries	Rasp-berries	Straw-berries	Other berries	Total	Apples	Apri-cots	Cher-ries	Grapes and pulp	Peaches	Miscel-laneous 2/	Total	Total	Product weight 4/	Single strength equiv-alent	Product weight 4/	Single strength equiv-alent	Product weight 4/	Single strength equiv-alent	
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1925	---	---	---	---	---	---	---	---	---	---	---	---	0.20	---	---	---	---	---	---	0.20
1926	---	---	---	---	---	---	---	---	---	---	---	---	.13	---	---	---	---	---	---	.13
1927	---	---	---	---	---	---	---	---	---	---	---	---	.28	---	---	---	---	---	---	.28
1928	---	---	---	---	---	---	---	---	---	---	---	---	.51	---	---	---	---	---	---	.51
1929	---	---	---	---	---	---	---	---	---	---	---	---	.58	---	---	---	---	---	---	.58
1930	---	---	---	---	---	---	---	---	---	---	---	---	.53	---	---	---	---	---	---	.53
1931	---	---	---	---	---	---	---	---	---	---	---	---	.41	---	---	---	---	---	---	.41
1932	---	---	---	---	---	---	---	---	---	---	---	---	.62	---	---	---	---	---	---	.62
1933	---	---	---	---	---	---	---	---	---	---	---	---	.51	---	---	---	---	---	---	.51
1934	---	---	---	---	---	---	---	---	---	---	---	---	.49	---	---	---	---	---	---	.49
1935	---	---	---	---	---	---	---	---	---	---	---	---	.50	---	---	---	---	---	---	.50
1936	---	---	---	---	---	---	---	---	---	---	---	---	.67	---	---	---	---	---	---	.67
1937	0.02	0.04	0.21	06	0.33	0.01	---	0.16	0.01	---	0.01	0.19	.52	---	---	---	---	---	---	.52
1938	.11	.18	.29	37	.65	.04	0.01	.19	.05	0.01	.07	.37	1.02	---	---	---	---	---	---	1.02
1939	.03	.09	.39	.16	.67	.01	6/	.29	.05	.03	.08	.46	1.13	---	---	---	---	---	---	1.13
1940	.07	.09	.44	.18	.78	.02	6/	.32	.07	.06	.03	.50	1.28	---	---	---	---	---	---	1.28
1941	.08	.14	.52	.14	.88	.04	6/	.24	.08	.04	.06	.46	1.34	---	---	---	---	---	---	1.34
1942	.04	.13	.58	.09	.84	.07	.01	.29	.08	.05	.05	.55	1.39	---	---	---	---	---	---	1.39
1943	.03	.14	.32	.03	.52	.12	.04	.27	.04	.10	.04	.61	1.13	---	---	---	---	---	---	1.13
1944	.09	.17	.33	.19	.78	.30	.17	.32	6/	.18	.26	1.23	2.01	---	---	---	---	---	---	2.01
1945	.05	.09	.24	.16	.54	.49	.40	.26	.04	.38	.20	1.77	2.31	---	---	---	---	---	---	2.31
1946	.14	.15	.38	.25	.92	.60	.30	.35	.12	.56	.23	2.16	3.08	0.06	0.11	0.01	0.01	0.07	0.12	3.15
1947	.11	.21	.73	.22	1.27	.34	.14	.56	.10	.31	.42	1.87	3.14	.05	.08	.01	.01	.06	.09	3.20
1948	.14	.19	.78	.24	1.35	.33	.10	.62	.10	.28	.13	1.56	2.91	.08	.21	.01	.01	.09	.22	3.00
1949	.08	.16	.97	.20	1.41	.28	.06	.51	.06	.17	.10	1.18	2.59	.90	3.07	.02	.02	.92	3.09	3.51
1950	.10	.22	.87	.29	1.48	.29	.06	.60	.05	.16	.12	1.28	2.76	1.36	4.74	.16	.38	1.52	5.12	4.28
1951	.06	.21	1.00	.17	1.44	.21	.01	.60	.03	.16	.09	1.13	2.57	1.89	6.64	.30	.58	2.19	7.22	4.76
1952	.07	.21	1.01	.29	1.78	.28	.04	.63	.04	.20	.12	1.31	3.09	3.06	10.76	.47	.68	3.53	11.44	6.62
1953	.08	.14	1.05	.23	1.70	.24	.03	.58	.08	.22	.14	1.29	2.99	3.36	11.82	.72	1.03	4.08	12.85	7.07
1954	.10	.13	1.43	.23	1.89	.31	.04	.52	6/	.17	.11	1.15	3.04	3.59	12.65	.81	1.28	4.40	13.93	7.44
1955	.12	.24	1.44	.37	2.17	.41	.04	.66	.09	.26	.15	1.61	3.78	4.08	14.33	.86	1.48	4.94	15.81	8.72
1956	.07	.20	1.49	.39	2.15	.51	.04	.69	.04	.23	.29	1.80	3.95	3.96	13.96	.90	1.52	4.86	15.48	8.81
1957	.05	.14	1.53	.25	1.97	.34	.05	.66	.13	.24	.27	1.69	3.66	4.32	15.23	1.00	1.76	5.32	16.99	8.98
1958	.10	.23	1.52	.43	2.28	.39	.03	.52	.12	.14	.15	1.35	3.63	3.31	11.67	1.01	1.60	4.32	13.27	7.95
1959	.10	.20	1.29	.20	1.79	.39	.04	.62	.08	.22	.23	1.58	3.37	4.11	14.49	1.31	2.15	5.42	16.64	8.79
1960	.14	.21	1.14	.36	1.85	.40	.07	.71	.03	.24	.20	1.65	3.50	4.43	15.69	1.15	1.87	5.58	17.56	9.08
1961	.10	.20	1.22	.40	1.92	.37	.06	.64	.12	.27	.19	1.65	3.57	4.34	15.33	.90	1.44	5.24	16.77	8.81
1962	.14	.17	1.25	.47	2.03	.32	.06	.74	.08	.30	.23	1.73	3.76	5.10	18.08	.82	1.48	5.92	19.56	9.68
1963 7/	.14	.17	1.38	.47	2.16	.41	.07	.71	.08	.32	.14	1.73	3.89	3.36	11.91	.71	1.24	4.07	13.15	7.96

1/ Prior to 1937, items not reported separately. Civilian consumption beginning 1941. Major portion of pineapple products excluded; reported with canned fruits and juices. 2/ Includes plums, prunes, minor quantities of pineapple, noncitrus juice, and miscellaneous fruits and berries; prior to 1946 includes small quantities of citrus juice. 3/ Prior to 1946 small quantities of citrus juice included in miscellaneous other fruit. 4/ Includes single-strength and concentrated juices. 5/ Includes orange juice used in blends. 6/ Less than 0.005 pound. 7/ Preliminary.

The fresh equivalent of processed fruits, given in the fruits summary table, assumes no loss to retail because of its relatively imperishable processed form. The fresh-equivalent basis is helpful in analyzing trends in fruit consumption when trying to abstract from the changes that have taken place in processing. Increased processing over time has reduced the number of pounds of fruits consumed when measured in pounds marketed at retail. In addition, loss in marketing fresh produce is avoided and inedible portions are removed during processing. The retail weight of products as marketed is used in the all-foods summary (table 5) and in the per capita consumption index in order to be consistent with other products and reported retail prices.

Melons

Melons were previously reported with the vegetable group because they are truck crops. For consumption analyses, they are more appropriately considered fruits. For this reason, they are now listed in a separate table. Both farm and retail weights are given for commercial watermelons and cantaloups (table 18). As in the case of other fresh produce, commercial production of melons is measured at the farm level. In estimating retail weights, allowance is made for marketing loss from farm to retail. Marketing losses were reduced gradually between 1953 and 1962 in making the consumption estimates. No information on processing of melons is available; the small amounts that are processed are included with fresh use. An estimate of consumption from home gardens is given in table 24.

Vegetables

Vegetable consumption data are presented in much the same way as those for fruit. A summary table gives the fresh equivalent on a farm- and retail-weight basis, in addition to total pounds of products as sold at retail (table 19). Commercial vegetables sold fresh at retail are reported by kind of vegetables on both a farm- and retail-weight basis (table 20). Commercial production includes production in commercial areas as well as truck-garden production marketed locally near major cities. Estimates of consumption from home gardens are reported separately in a later table. Physical losses in marketing fresh vegetables are believed to have been reduced for many of the same reasons as listed above for fresh fruits. Rather substantial reductions were made in loss factors used in converting from farm to retail weights (table 6).

Fresh vegetables are grouped as tomatoes, dark-green and deep-yellow vegetables, and all other vegetables in table 19. The new green and yellow group includes broccoli, carrots, chard, kale, spinach, other vegetables with dark-green leaves, pumpkin, and winter squash. It replaces the previous group known as leafy, green and yellow in order to group vegetables high in vitamin A. Processed vegetables are first measured after being processed into final products (tables 21 and 22). These weights, which exclude packaging materials but include minor ingredients such as sugar and salt, are taken as retail weights. Potatoes, sweetpotatoes, dry edible beans, dry field peas, and melons are not defined as vegetables in this handbook; they are reported in separate tables. However, for completeness by type of processing and consistency with the supply and utilization tables in chapter 6, tables giving consumption of canned and frozen vegetables include a separate listing of canned and frozen potatoes and sweetpotatoes. Rhubarb is a maverick tacked onto the frozen vegetable table because it is a truck crop.

Data on production of canned soups have not been available since 1946. Consumption estimates, based on trade information, continue to be made but the fragmentary data upon which they are based preclude much reliance on them (table 23). No usable information is available on which to make estimates of dried soups. Data on consumption of baby food were available through 1956, but current estimates are only rough approximations based on data in the Census of Manufactures. Only fruit and vegetable components of baby foods and soups are included in the summary of pounds of all food consumed and in the nutrient data in chapter 5. Ingredients of other soups and baby foods represent duplications

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of foods reported in their respective commodity tables.

The rough approximations of vegetable consumption from home gardens in table 24 are added to data on fresh consumption from commercial sources in computing total food consumption in table 5. Since the information was based on fragmentary data, consumption from home gardens was not added to consumption of commercial vegetables in the detailed vegetable tables. Certainly, per capita consumption of all food in early years would not be complete without some such estimations, but in recent years home gardens have contributed relatively less to consumption.

For early years, estimates of consumption from farm-home gardens were based largely on census data which give value of vegetables produced on farms for home consumption. Quantities were derived from values using prices received by farmers as reported by SRS. Adjustments and allocations among commodity groups were based on a survey of Home Management Supervisors of the Farmers Home Administration. Various studies of family food consumption in 1935-36, 1942, 1944, 1945, and surveys of production in victory gardens during and following World War II provided benchmarks for consumption from home gardens by urban and rural nonfarm households (1, 25, 80). Data from the 1955 Household Food Consumption Survey for 1954 were used as the latest benchmarks (90I). Changes in numbers of households by urbanization and estimates of proportions of households with gardens were used for interpolation. Extrapolations have been made since 1954 that will be adjusted on the basis of the forthcoming 1965 household survey (see chapter 8). Farm-garden output of potatoes and sweetpotatoes for farm-home use are included in estimates of production made by SRS. Consequently, they are excluded from this estimation.

Potatoes, Sweetpotatoes, Dry Beans and Peas, and Soya Products

Production of potatoes and sweetpotatoes is measured on a fresh produce basis. Marketing losses, which were reduced slightly between 1953 and 1962, are deducted in estimating retail weight for all uses except canned and frozen. Canned and frozen potatoes are measured in product weights of processed products which, after conversion to a fresh-weight basis, are deducted from fresh use. Consumption from rural nonfarm and city home gardens is estimated in table 24.

Consumption of all potato products is given in table 25. Frozen potatoes, mostly as frozen french fries, currently make up about a tenth of total potato consumption; consumption of frozen french fries exceeds that of any frozen vegetable (table 22). Other forms of processing, such as dehydration, chips, shoestrings, and flour used in bakery products, also account for a large part of consumption--in recent years about 16-18 percent of total potato consumption. Unfortunately, consumption data for these items are not available on a calendar-year basis.

Processed forms of sweetpotatoes also are gaining in importance relative to fresh use. Thus, per capita consumption of all sweetpotato products was brought together in table 25. However, total consumption continues to decline since the upward trend in canned use and small uses of sweetpotato flakes and frozen sweetpotatoes have not offset the downtrend in fresh use.

Dry edible beans and dry field peas are measured on a farm-weight basis, cleaned (table 25). No allowance is made for loss between farm and retail sale because of the storage properties of these foods. Since these products are on a dried basis, the retail weight would exceed the farm weight for those used in processed items such as canned soups or "pork and beans".

Cereal Products

Most cereal products are measured in terms of milled flour or meal at the initial processing stage (table 26). Unprocessed grains are not used as the primary level because most grains are not directly usable as foods and nonfood byproducts are excluded by milling. No further allowance is made for marketing or final processing losses; the milled basis is taken as the retail-weight equivalent of these products.

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Table 17.-Dried fruits: Per capita consumption, 1909-63 1/

Pack year	Apples	Apricots	Dates 2/	Figs	Peaches	Pears	Prunes 3/	Raisins and currants	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	0.2	0.2	0.2	0.3	0.6	4/	1.0	1.7	4.2
1910	.3	.1	.3	.3	.5	4/	.6	1.4	3.5
1911	.3	.1	.2	.3	.3	0.1	1.6	1.4	4.3
1912	.4	.1	.3	.3	.6	4/	1.0	1.8	4.5
1913	.2	.1	.3	.3	.7	4/	.6	1.5	3.7
1914	.1	.2	.2	.3	.6	.1	.8	1.8	4.1
1915	.4	.2	.3	.2	.6	4/	1.5	1.8	5.0
1916	.5	.1	.2	.4	.5	4/	1.4	2.0	5.1
1917	.4	.3	.1	.3	.7	4/	2.1	2.4	6.3
1918	.4	.1	.2	.3	.4	4/	.9	2.1	4.4
1919	.4	.1	.3	.5	.6	.1	2.0	2.9	6.9
1920	.2	.1	.3	.4	.5	.1	1.7	3.4	6.7
1921	.1	.1	.4	.6	.4	4/	1.2	2.7	5.5
1922	.3	.2	.5	.5	.5	.1	1.9	2.6	6.6
1923	.1	.2	.4	.4	.4	4/	1.4	2.6	5.5
1924	.2	.2	.5	.5	.4	.1	1.5	3.0	6.4
1925	.1	.1	.6	.5	.3	.1	1.8	2.8	6.3
1926	.1	.2	.4	.5	.4	.1	1.6	2.8	6.1
1927	.1	.2	.4	.4	.2	.1	2.3	2.6	6.3
1928	.1	.2	.4	.4	.4	.1	1.7	2.9	6.2
1929	.2	.2	.4	.4	.2	.1	1.3	2.5	5.3
1930	.1	.2	.4	.3	.4	0	1.9	2.1	5.4
1931	.1	.3	.4	.2	.2	4/	1.6	1.9	4.7
1932	.1	.3	.4	.3	.3	4/	1.7	2.3	5.4
1933	.1	.3	.4	.3	.3	4/	1.5	2.3	5.2
1934	.1	.2	.5	.3	.3	4/	1.6	2.1	5.1
1935	.1	.2	.5	.3	.3	4/	2.2	2.3	5.9
1936	.2	.3	.5	.3	.4	4/	1.8	1.9	5.4
1937	.2	.3	.4	.4	.3	0	2.2	2.0	5.8
1938	.1	.1	.4	.4	.3	4/	1.6	2.6	5.5
1939	.3	.4	.4	.3	.3	.1	2.1	2.5	6.4
1940	.1	.1	.4	.4	.4	4/	2.0	2.6	6.0
1941	4/	.2	.2	.4	.1	0	1.6	1.8	4.3
1942	0	0	.2	.5	0	0	1.3	2.2	4.2
1943	.1	4/	.2	.4	.1	4/	2.1	3.0	5.9
1944	.1	.2	.4	.4	.2	4/	1.8	3.0	6.1
1945	.2	.1	.4	.4	.3	.1	2.0	2.5	6.0
1946	.2	.2	.5	.3	.1	4/	1.4	1.8	4.5
1947	.2	.1	.3	.3	.2	4/	.9	1.7	3.7
1948	.1	.2	.5	.3	.1	4/	.8	1.9	3.9
1949	.2	.2	.4	.4	.1	4/	1.0	1.8	4.1
1950	.15	.15	.56	.34	.11	.01	1.06	1.68	4.06
1951	.13	.12	.51	.32	.12	.01	.81	1.79	3.81
1952	.11	.10	.51	.30	.10	.01	.96	1.73	3.82
1953	.11	.13	.46	.31	.10	5/	.84	1.80	3.75
1954	.12	.10	.51	.31	.10	.02	.95	1.77	3.88
1955	.11	.14	.53	.29	.09	.01	.72	1.72	3.59
1956	.08	.09	.53	.33	.07	.01	.83	1.76	3.70
1957	.08	.08	.60	.33	.07	.01	.88	1.54	3.59
1958	.10	.04	.39	.35	.06	.01	.66	1.41	3.02
1959	.09	.06	.45	.31	.07	.01	.71	1.57	3.27
1960	.09	.08	.51	.34	.06	.01	.61	1.42	3.12
1961	.08	.08	.40	.33	.05	.01	.63	1.56	3.14
1962	.11	.05	.38	.25	.05	.01	.66	1.50	3.01
1963 6/	.07	.06	.44	.30	.04	.01	.58	1.48	2.98

1/ Pack years beginning midyear of year indicated. Civilian consumption 1941 to date. 2/ Pits-in basis. 3/ Excludes quantities used for juice. 4/ Less than 0.05 pound. 5/ Less than 0.005 pound. 6/ Preliminary.

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Table 18.--Melons, commercial: Per capita consumption, farm and retail weight, 1909-63 1/

Year	Watermelons		Cantaloups 2/		Total melons	
	Farm	Retail	Farm	Retail	Farm	Retail
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	---	---	---	---	---	(22)
1910	---	---	---	---	---	(21)
1911	---	---	---	---	---	(20)
1912	---	---	---	---	---	(21)
1913	---	---	---	---	---	(20)
1914	---	---	---	---	---	(20)
1915	---	---	---	---	---	(21)
1916	---	---	---	---	---	(21)
1917	---	---	---	---	---	(21)
1918	---	---	---	---	---	(22)
1919	15.7	13.7	9.1	7.7	24.8	21.4
1920	22.6	19.7	9.2	7.8	31.8	27.5
1921	25.5	22.2	9.4	8.0	34.9	30.2
1922	27.5	23.9	9.8	8.3	37.3	32.2
1923	20.1	17.5	9.0	7.6	29.1	25.1
1924	25.7	22.4	10.0	8.5	35.7	30.9
1925	24.2	21.1	10.2	8.7	34.4	29.8
1926	26.5	23.1	9.9	8.4	36.4	31.5
1927	20.7	18.0	10.1	8.6	30.8	26.6
1928	20.1	17.5	10.5	8.9	30.6	26.4
1929	21.4	18.6	10.7	9.1	32.1	27.7
1930	23.2	20.2	9.8	8.3	33.0	28.5
1931	22.2	19.3	10.6	9.0	32.8	28.3
1932	18.2	15.8	8.9	7.6	27.1	23.4
1933	17.6	15.3	7.7	6.5	25.3	21.8
1934	17.8	15.5	7.8	6.6	25.6	22.1
1935	18.7	16.3	8.5	7.2	27.2	23.5
1936	17.6	15.3	8.8	7.5	26.4	22.8
1937	18.8	16.4	10.0	8.5	28.8	24.9
1938	17.7	15.4	9.5	8.1	27.2	23.5
1939	15.8	13.7	9.6	8.2	25.4	21.9
1940	17.4	15.1	9.1	7.7	26.5	22.8
1941	15.1	13.1	9.4	8.0	24.5	21.1
1942	14.5	12.6	8.0	6.8	22.5	19.4
1943	13.9	12.1	7.9	6.7	21.8	18.8
1944	18.4	16.0	9.6	8.2	28.0	24.2
1945	19.5	17.0	10.2	8.7	29.7	25.7
1946	19.4	16.9	11.2	9.5	30.6	26.4
1947	18.1	15.7	9.9	8.4	28.0	24.1
1948	17.5	15.2	9.8	8.3	27.3	23.5
1949	17.9	15.6	9.0	7.6	26.9	23.2
1950	15.7	13.7	9.1	7.7	24.8	21.4
1951	17.2	15.0	8.9	7.6	26.1	22.6
1952	17.1	14.9	8.6	7.3	25.7	22.2
1953	19.0	16.6	9.2	7.9	28.2	24.5
1954	19.3	16.9	9.7	8.4	29.0	25.3
1955	20.2	17.8	9.4	8.2	29.6	26.0
1956	18.4	16.2	9.0	7.9	27.4	24.1
1957	16.6	14.7	7.8	6.9	24.4	21.6
1958	18.1	16.1	8.2	7.3	26.3	23.4
1959	15.9	14.2	8.6	7.7	24.5	21.9
1960	17.2	15.4	8.4	7.6	25.6	23.0
1961	16.3	14.6	8.4	7.7	24.7	22.3
1962	14.7	13.2	8.5	7.8	23.2	21.0
1963 3/	16.0	14.4	8.7	8.0	24.7	22.4

1/ Data in parentheses are approximations. Excludes quantities produced in home gardens. Conversion factors used to obtain retail weight from farm weight are indicated in table 6.
2/ Includes honeydew and honeyball melons.
3/ Preliminary.

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Table [illegible].--Commercial vegetables, summary: Per capita consumption, farm and retail weights, 1919-63 1/

Year	Tomatoes							Other than tomatoes									All vegetables						
	Used fresh		Canned 2/		Total			Used fresh		Processed			Total				Used fresh		Processed		Total		
	Farm	Retail	Fresh equivalent	Retail	Fresh equivalent Farm 3/	Fresh equivalent Retail 4/	Retail	Farm	Retail	Fresh equivalent Canned 2/	Fresh equivalent Frozen	Fresh equivalent Total	Retail	Fresh equivalent Farm 3/	Fresh equivalent Retail 4/	Retail	Farm	Retail	Fresh equivalent	Retail	Fresh equivalent Farm 3/	Fresh equivalent Retail 4/	Retail
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1919	10.4	8.1	16.5	5.4	27.3	24.6	24.5	68.8	56.4	21.9	---	21.9	14.9	87.7	78.3	71.3	76.6	64.5	38.4	21.3	115.0	102.9	85.8
1920	11.1	8.4	14.1	4.0	25.2	23.4	24.5	83.9	71.6	18.7	---	18.7	13.2	102.6	90.3	84.8	95.0	79.9	32.8	18.2	127.8	112.7	98.1
1921	9.9	7.4	14.0	4.4	23.9	23.4	11.4	71.4	61.9	17.2	---	17.2	12.2	89.5	79.1	74.1	82.2	69.3	30.2	16.6	112.4	99.5	85.9
1922	11.7	8.8	14.1	4.2	25.8	25.9	13.3	81.1	69.4	17.4	---	17.4	12.3	98.5	86.8	81.7	92.8	78.2	30.5	16.8	123.3	108.7	95.0
1923	11.6	8.7	16.5	5.8	28.1	28.2	14.5	78.4	67.2	21.8	---	21.8	15.4	100.3	89.0	82.6	90.1	78.9	38.3	21.2	128.4	114.2	97.1
1924	11.9	8.9	17.7	6.3	29.6	26.6	15.3	89.3	76.0	23.5	---	23.5	15.8	112.6	99.5	91.8	100.9	84.9	41.2	22.7	142.1	126.1	107.6
1925	12.6	9.4	19.7	8.1	32.3	31.1	17.5	88.7	75.8	26.1	---	26.1	17.3	114.8	101.9	93.1	101.3	85.2	45.8	25.4	147.1	131.0	110.6
1926	13.6	8.0	22.8	13.0	36.4	35.6	18.0	90.3	77.0	26.5	---	26.5	15.7	116.5	103.5	92.7	100.6	85.0	49.3	25.7	149.9	134.3	110.7
1927	12.3	9.2	18.5	8.1	30.8	30.7	17.3	93.7	80.2	24.0	---	24.0	14.0	117.7	104.2	94.2	106.0	89.4	42.5	22.1	148.5	131.9	111.5
1928	11.0	9.0	18.1	8.1	30.1	29.1	17.1	92.3	79.0	24.7	---	24.7	14.7	116.9	103.7	93.7	104.2	88.0	42.8	22.8	147.0	130.8	110.8
1929	13.5	10.1	19.6	8.6	33.1	29.7	18.7	99.1	84.9	27.5	---	27.5	17.1	126.6	112.4	102.0	112.6	95.0	47.1	25.7	159.7	142.1	120.7
1930	12.9	9.7	22.4	10.0	35.3	32.1	19.7	99.0	85.0	28.4	---	28.4	18.3	127.4	113.4	103.3	111.9	94.7	50.8	28.3	162.7	145.5	123.0
1931	13.4	9.3	20.2	9.1	32.6	29.5	18.4	98.7	82.3	25.7	---	25.7	16.1	121.6	108.0	98.4	108.3	91.6	45.9	25.2	154.2	137.5	116.8
1932	13.8	10.1	18.4	8.6	31.9	28.5	18.7	99.3	81.9	21.7	---	21.7	13.4	117.0	103.6	95.3	108.8	92.0	40.1	22.0	148.9	132.1	114.0
1933	12.5	9.4	19.4	9.0	31.9	28.8	18.4	92.0	79.1	21.3	---	21.3	12.9	113.3	100.4	93.0	104.5	88.5	40.7	21.9	145.2	129.2	110.4
1934	13.5	10.1	20.0	9.1	33.5	30.1	19.1	101.7	87.1	21.6	---	21.6	14.1	123.3	108.7	101.2	115.2	97.2	41.6	23.2	156.8	138.8	120.4
1935	14.0	10.5	22.1	10.6	36.1	32.6	20.7	97.2	83.7	24.9	---	24.9	15.9	122.1	108.6	99.6	111.2	94.2	47.0	26.1	158.2	141.2	120.3
1936	12.6	9.4	23.8	11.1	36.4	33.2	20.5	99.9	85.7	26.4	---	26.4	16.5	126.3	112.1	102.2	112.5	95.1	50.2	27.6	162.7	145.3	122.7
1937	12.8	9.6	25.3	11.6	38.1	34.9	21.2	98.1	84.2	27.0	1.0	28.0	18.1	126.2	112.2	102.3	111.0	93.8	53.3	29.7	164.3	147.1	123.5
1938	13.8	10.4	26.1	11.9	39.9	36.5	22.3	100.7	86.5	28.5	1.0	29.5	19.5	130.2	116.0	106.0	114.5	96.9	55.6	31.4	170.1	152.5	128.3
1939	14.1	10.6	26.4	11.9	40.5	37.0	22.7	101.9	87.7	30.4	1.2	31.6	20.3	134.1	119.3	108.0	116.6	98.3	58.0	32.2	174.6	156.3	130.5
1940	13.3	10.0	24.7	11.9	42.0	38.7	23.9	103.6	88.9	32.9	1.4	34.3	21.9	137.9	123.2	110.8	116.9	98.9	63.0	34.8	179.9	161.9	133.7
1941	13.1	9.8	30.4	13.7	43.5	40.2	24.5	100.7	86.2	35.0	1.6	36.6	23.6	137.3	122.8	109.8	113.8	96.0	67.0	37.3	180.8	163.0	133.3
1942	14.0	10.5	29.1	14.9	47.1	43.6	25.4	105.0	90.0	38.7	2.6	41.3	25.7	146.3	131.3	115.7	119.0	100.5	74.4	40.6	193.4	174.9	141.1
1943	14.2	10.6	31.9	14.1	46.0	42.5	24.7	102.6	87.8	36.6	1.7	38.3	23.3	140.9	126.1	111.1	116.7	98.4	70.2	37.4	186.9	168.6	135.8
1944	14.4	10.8	34.4	13.3	48.8	45.2	24.1	109.5	94.0	33.5	3.8	37.3	22.4	146.8	131.3	116.4	123.9	104.8	71.7	35.7	195.6	176.5	140.5
1945	16.1	12.1	44.0	18.3	60.1	56.1	30.4	118..	101.4	39.4	4.4	43.8	26.5	162.0	145.2	127.9	134.3	113.5	87.8	44.8	222.1	201.3	158.3
1946	15.4	11.6	43.4	17.3	58.8	55.0	28.9	114.2	97.7	45.8	4.7	50.5	30.7	165.0	148.2	128.4	129.9	109.3	93.9	48.0	223.8	203.2	157.3
1947	13.9	10.4	37.1	14.8	51.0	47.9	25.2	108.5	92.6	40.4	6.1	46.5	27.6	155.0	139.1	120.2	122.4	103.0	83.6	42.4	206.0	186.6	145.4
1948	13.9	10.4	32.6	13.6	46.5	43.0	24.0	109.1	93.4	36.9	7.0	43.9	26.7	153.0	137.3	120.2	123.0	103.8	76.5	40.3	199.5	180.3	144.1
1949	13.5	10.1	34.0	14.5	47.5	44.1	24.6	102.7	87.8	36.6	6.8	43.4	26.7	146.1	131.2	114.5	116.2	97.9	77.4	41.2	193.6	175.3	139.1
1950	12.9	9.7	37.6	15.9	50.5	47.3	25.6	102.5	87.6	39.0	7.4	46.4	28.6	148.7	134.0	116.2	115.2	97.3	84.0	44.5	199.2	181.3	141.8
1951	13.3	10.0	41.0	16.2	54.3	51.0	26.2	98.6	84.1	38.6	9.3	47.9	29.4	146.5	132.0	113.5	111.9	94.1	88.9	45.6	200.8	183.0	139.7
1952	13.1	9.8	38.6	15.6	51.7	48.4	25.4	98.6	84.0	38.2	11.3	49.5	30.1	148.0	133.5	114.1	111.6	93.8	88.1	45.7	199.7	181.9	139.5
1953	12.8	9.7	40.2	16.4	53.0	49.9	26.1	96.3	83.0	39.2	11.7	50.9	30.9	147.2	133.9	113.9	109.1	92.7	91.1	47.3	200.2	183.8	140.0
1954	12.9	9.9	38.3	15.7	51.1	48.1	25.6	94.3	81.5	38.6	12.2	50.8	30.9	145.1	132.3	112.4	107.2	91.4	89.0	46.6	196.2	180.4	138.0
1955	13.4	10.5	41.3	16.3	54.7	51.3	26.8	91.7	80.1	39.2	13.1	52.3	31.8	144.0	132.4	111.9	105.1	90.6	93.6	48.1	198.7	184.2	138.7
1956	12.3	9.7	42.1	16.5	54.4	51.8	26.2	94.8	83.7	39.4	13.8	53.2	32.3	148.0	136.9	116.0	107.1	93.4	95.3	48.8	202.4	188.7	142.2
1957	12.6	10.1	42.6	17.1	55.2	52.7	27.2	93.8	83.7	38.8	14.2	53.0	31.9	146.8	136.7	115.6	106.4	93.8	95.6	49.0	202.0	189.4	142.8
1958	11.9	9.6	43.5	16.9	55.4	53.1	26.5	91.3	82.6	39.2	15.1	54.3	33.0	146.1	136.9	115.6	103.7	92.2	97.8	49.9	201.5	190.0	142.1
1959	12.9	10.6	44.3	17.5	57.2	54.9	28.1	90.0	81.7	38.3	15.3	53.6	32.5	143.6	135.3	114.2	102.9	92.3	97.9	50.0	200.8	190.2	142.3
1960	12.6	10.5	45.4	17.6	58.0	55.9	28.1	93.2	85.4	38.1	15.9	54.0	32.5	147.2	139.4	117.9	105.8	95.9	99.4	50.1	205.2	195.3	146.0
1961	12.7	10.7	46.3	17.8	59.0	57.0	28.5	92.8	85.1	37.2	16.1	53.3	32.3	145.5	138.4	117.4	104.9	95.8	99.6	50.1	204.5	195.4	145.9
1962	12.7	10.8	47.3	18.1	60.0	58.1	28.9	90.1	84.0	38.9	17.7	56.6	34.0	146.7	140.6	118.0	102.8	94.8	103.9	50.1	206.7	198.7	146.9
1963 2/	12.2	10.4	49.2	19.0	61.4	59.6	29.4	90.7	84.7	38.6	17.1	55.7	33.5	146.4	140.4	118.2	102.9	95.1	104.9	52.5	207.8	200.0	147.6

1/ Excludes home garden produce, soups, baby foods, potatoes, sweetpotatoes, and dry beans and peas. See tables 50, 51, and 52 for product weight of individual items covered. Civilian consumption only beginning 1941.
2/ In 1909-42 calendar-year data derived from pack year data by combining proportional parts of each pack year involved.
3/ Fresh equivalent of processed plus farm weight used fresh.
4/ Fresh equivalent of processed plus retail weight used fresh.
5/ Preliminary.

Table 20.--Fresh commercial vegetables: Per capita consumption, farm and retail weights, 1909-63 1/

Year	Tomatoes		Dark green and deep yellow															
			Broccoli		Carrots		Escarole			Peppers		Spinach		Minor 2/		Total	
	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Kale, farm and retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	---	(8)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1910	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1911	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1912	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1913	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1914	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1915	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1916	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1917	---	(7)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1918	---	(8)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(6)
1919	10.8	8.1	5/	5/	2.2	2.0	---	---	0.1	1.2	1.0	0.9	0.7	2.4	2.0	6.8	5.8
1920	11.1	8.3	5/	5/	2.4	2.2	---	---	.1	1.3	1.1	1.0	.8	2.9	2.5	7.7	6.7
1921	9.9	7.4	5/	5/	2.5	2.2	---	---	.1	1.3	1.1	1.3	1.1	2.8	2.4	8.0	6.9
1922	11.7	8.8	5/	5/	3.8	2.9	---	---	.1	1.3	1.1	1.5	1.2	3.1	2.6	8.8	7.5
1923	11.6	8.7	5/	5/	3.0	2.7	---	---	.2	1.4	1.2	1.7	1.4	2.8	2.4	9.1	7.9
1924	11.9	8.9	5/	5/	3.1	2.8	---	---	.1	1.3	1.1	2.0	1.6	3.2	2.7	9.7	8.3
1925	12.6	9.4	5/	5/	3.0	2.7	---	---	.1	1.3	1.1	2.1	1.7	3.1	2.6	9.6	8.2
1926	10.6	8.0	5/	5/	3.4	3.1	---	---	.2	1.3	1.1	2.2	1.8	3.2	2.7	10.3	8.9
1927	12.3	9.2	5/	5/	4.1	3.7	---	---	.2	1.3	1.1	2.3	1.9	3.3	2.8	11.2	9.7
1928	12.0	9.0	5/	5/	4.0	3.6	0.1	0.1	.2	1.3	1.1	2.3	1.9	2.8	2.4	10.7	9.3
1929	13.5	10.1	0.1	0.1	5.9	5.3	.2	.2	.2	1.3	1.1	2.6	2.1	2.8	2.4	13.1	11.4
1930	12.9	9.7	.2	.2	6.1	5.5	.2	.2	.2	1.5	1.3	2.4	1.9	3.2	2.7	13.8	12.0
1931	12.4	9.3	.3	.3	5.4	4.9	.2	.2	.1	1.6	1.4	2.8	2.3	3.4	2.9	13.8	12.1
1932	13.5	10.1	.3	.3	5.4	4.9	.2	.2	8/.3	1.4	1.2	2.6	2.1	3.3	2.8	13.5	11.7
1933	12.6	9.4	.4	.3	5.3	4.8	.2	.2	.2	1.7	1.5	2.3	1.9	2.7	2.3	12.8	11.2
1934	13.5	10.1	.5	.4	6.0	5.4	.3	.2	.1	1.4	1.2	2.5	2.0	3.3	2.8	14.1	12.1
1935	14.0	10.5	.6	.5	5.9	5.3	.2	.2	.1	1.5	1.3	2.3	1.9	3.6	3.1	14.2	12.4
1936	12.6	9.4	.6	.5	6.2	5.6	.2	.2	.2	1.7	1.5	2.7	2.2	3.2	2.7	14.8	12.9
1937	12.8	9.6	.7	.6	6.4	5.8	.3	.2	.2	1.8	1.6	2.6	2.1	3.3	2.8	15.3	13.3
1938	13.0	10.4	.7	.6	7.0	6.3	.3	.2	.2	1.9	1.7	2.5	2.0	3.6	3.1	16.2	14.1
1939	14.1	10.6	.8	.7	7.4	6.7	.3	.2	8/.3	2.1	1.8	2.9	2.3	3.1	2.6	16.9	14.5
1940	13.8	10.4	.6	.5	7.7	6.9	.4	.3	.2	1.9	1.7	2.7	2.2	3.2	2.7	16.7	14.5
1941	13.1	9.8	.7	.6	7.6	6.8	.3	.2	8/.3	1.8	1.6	2.6	2.1	2.9	2.5	16.2	14.0
1942	13.[illegible]	[illegible]	.8	.7	8.0	7.2	.4	.3	.2	1.6	1.6	2.5	2.0	3.4	2.9	16.9	14.7
1943	13.[illegible]	[illegible]	.7	.6	10.1	10.0	.4	.3	8/.3	1.4	1.2	2.2	1.8	3.3	2.8	19.4	16.9
1944	13.[illegible]	[illegible]	.7	.7	9.9	8.9	.4	.3	8/.3	1.8	1.6	2.2	1.8	3.1	2.6	18.7	16.3
1945	[illegible]	[illegible]	.9	.8	11.7	10.5	.5	.4	8/.3	2.1	1.8	2.3	1.9	3.5	3.0	21.3	18.6
1946	[illegible]	[illegible]	1.0	.9	9.8	8.8	.5	.4	8/.3	2.2	1.9	2.0	1.6	2.7	2.3	18.3	15.9
1947	[illegible]	[illegible]	1.0	.9	8.7	7.8	.5	.4	.2	1.9	1.7	1.9	1.5	3.8	3.2	18.0	15.7
1948	[illegible]	[illegible]	.9	.8	9.4	8.4	.5	.4	.2	2.1	1.9	1.7	1.4	3.9	3.3	18.7	16.4
1949	13.[illegible]	[illegible]	.9	.8	8.6	7.6	.5	.4	8/.3	2.3	2.0	2.0	1.6	3.3	2.8	17.8	15.4
1950	[illegible]	[illegible]	1.0	.9	8.8	7.9	.6	.5	8/.3	2.3	2.0	1.7	1.4	3.1	2.6	17.8	15.6
1951	14.[illegible]	10.[illegible]	.7	.6	8.0	7.[illegible]	.6	.5	8/.3	2.1	1.8	1.6	1.3	2.9	2.4	15.8	13.7
1952	13.1	9.8	.8	.7	7.9	7.1	.7	.6	8/.3	2.1	1.8	1.5	1.[illegible]	2.[illegible]	1.9	15.5	13.5
1953	12.[illegible]	9.7	.7	.6	7.8	7.1	.6	.5	8/.3	2.0	1.8	1.4	1.1	2.5	2.1	15.3	13.4
1954	12.9	9.9	.8	.7	7.7	7.0	.6	.5	.2	2.1	1.8	1.1	.9	2.9	2.5	15.2	13.4
1955	13.4	10.[illegible]	.8	.7	7.9	6.9	.6	.5	.2	2.2	1.9	1.0	.8	2.1	1.8	14.1	12.5
1956	12.[illegible]	9.7	.9	.8	7.8	7.[illegible]	.6	.5	.2	2.1	1.9	1.1	.9	2.8	2.5	15.1	13.6
1957	12.[illegible]	10.1	.9	.8	7.4	6.9	.7	.6	.2	2.3	2.1	1.0	.8	3.2	2.8	15.3	13.8
1958	11.9	9.[illegible]	.8	.8	7.7	6.9	.6	.5	.2	2.1	1.9	1.1	.9	3.[illegible]	2.9	14.9	13.7
1959	12.9	10.6	.8	.8	7.6	6.8	.7	.6	.2	2.3	2.1	1.0	.9	2.9	2.6	14.5	13.4
1960	12.[illegible]	10.5	.8	.8	7.1	6.8	.7	.6	.2	2.4	2.[illegible]	1.0	.9	3.6	3.3	15.4	14.4
1961	12.7	10.7	.8	.8	6.[illegible]	6.[illegible]	.7	.6	.2	2.6	2.4	.8	.7	4.0	3.7	15.5	14.5
1962	12.7	10.6	.8	.8	6.8	6.6	.7	.6	.1	2.5	2.3	.7	.6	3.6	3.3	14.8	13.9
1963 3/	12.[illegible]	10.[illegible]	.8	.8	7.1	6.9	.7	.6	.1	2.7	2.[illegible]	.7	.6	3.6	3.3	15.3	14.4

Continued -

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Table 24.—Fresh commercial vegetables: Per capita consumption, farm and retail weights 1/ -Continued

Year	Other																	
	Artichokes, farm and retail	Asparagus		Beans				Beets		Brussels sprouts, farm and retail	Cabbage		Cauliflower 3/		Celery		Corn	
				Snap		Lima (in shell)												
		Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail		Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1910	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1911	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1912	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1913	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1914	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1916	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1917	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1918	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1919	0.1	0.5	0.5	3.0	2.7	0.2	0.2	0.8	0.7	0.1	17.3	14.7	1.1	0.9	5.2	4.5	2.9	2.5
1920	.1	.6	.5	3.0	2.7	.2	.2	.8	.7	.1	27.3	23.2	1.2	1.0	5.5	4.7	2.7	2.3
1921	.1	.5	.5	3.1	2.8	.2	.2	.8	.7	.1	18.5	15.7	1.2	1.0	5.6	4.8	2.5	2.2
1922	.2	.5	.5	3.1	2.8	.2	.2	.8	.7	.1	23.0	19.6	1.3	1.1	5.5	4.7	2.4	2.1
1923	.2	.6	.5	3.4	3.0	.2	.2	.8	.7	.1	19.5	16.6	1.5	1.3	5.8	5.0	2.3	2.0
1924	.4	.7	.6	3.6	3.2	.2	.2	1.1	1.0	.1	24.0	20.4	1.3	1.1	6.2	5.3	2.8	2.4
1925	.4	.8	.7	3.6	3.2	.3	.3	1.1	1.0	.1	22.0	18.7	1.5	1.3	6.6	5.7	3.1	2.7
1926	.5	1.0	.9	3.5	3.1	.2	.2	.9	.8	.1	22.2	18.9	2.4	2.1	6.1	5.2	3.1	2.7
1927	.4	1.0	.9	3.7	3.3	.3	.3	1.2	1.1	.1	23.1	19.6	1.8	1.5	6.2	5.3	3.1	2.7
1928	.3	1.1	1.0	3.8	3.4	.2	.2	1.4	1.3	.1	19.8	16.8	2.0	1.7	7.4	6.4	3.4	2.9
1929	.3	1.0	.9	4.5	4.0	.3	.3	1.7	1.5	.1	21.0	17.8	2.5	2.2	8.5	7.3	3.4	2.9
1930	.3	1.2	1.1	4.5	4.0	.4	.4	1.7	1.5	.1	18.4	15.6	2.3	2.0	8.6	7.4	4.1	3.5
1931	.3	1.3	1.2	4.8	4.3	.5	.5	1.7	1.5	.1	19.4	16.5	2.7	2.3	7.6	6.5	4.4	3.8
1932	.2	1.4	1.3	4.5	4.0	.6	.6	1.5	1.4	.2	19.2	16.3	2.6	2.2	7.6	6.5	5.2	4.5
1933	.3	1.3	1.2	5.1	4.5	.5	.5	1.5	1.4	.2	17.1	14.5	2.5	2.2	7.4	6.4	5.4	4.6
1934	.3	1.4	1.3	5.1	4.5	.5	.5	1.8	1.6	.2	22.6	19.2	2.4	2.1	7.5	6.4	5.8	5.0
1935	.3	1.2	1.1	4.9	4.4	.6	.6	1.5	1.4	.2	19.6	16.7	2.4	2.1	6.6	5.7	5.7	4.9
1936	.3	1.4	1.3	4.4	3.9	.8	.7	1.6	1.4	.2	17.9	15.2	2.7	2.3	7.3	6.3	5.8	5.0
1937	.2	1.2	1.1	4.0	3.6	.7	.6	1.7	1.5	.2	17.8	15.1	3.1	2.7	7.8	6.7	5.1	4.4
1938	.3	1.1	1.0	4.8	4.3	.8	.7	1.8	1.6	.2	19.8	16.8	2.9	2.5	8.0	6.9	5.2	4.5
1939	.3	1.3	1.2	5.0	4.4	.9	.8	1.7	1.5	.3	16.4	13.9	3.3	2.8	8.3	7.1	5.1	4.4
1940	.2	1.5	1.4	5.0	4.4	.8	.7	1.7	1.5	.3	18.5	15.7	3.5	3.0	8.2	7.1	5.6	4.8
1941	.2	1.4	1.4	4.8	4.1	.8	.7	1.6	1.4	.2	16.2	13.8	2.6	2.2	8.8	7.6	6.2	5.3
1942	.3	1.4	1.2	4.9	4.4	.7	.6	1.4	1.3	.2	18.9	16.1	2.7	2.3	7.9	6.8	6.8	5.8
1943	.2	1.2	1.1	5.3	4.7	.6	.6	1.3	1.2	.2	17.0	14.4	2.6	2.2	7.0	6.0	6.3	5.4
1944	.3	1.2	1.1	4.7	4.2	.6	.6	1.2	1.1	.2	19.8	16.8	3.1	2.7	7.4	6.4	6.7	5.8
1945	.2	1.1	1.0	4.8	4.3	.6	.6	1.2	1.1	.2	20.5	17.4	3.5	3.0	8.2	7.1	7.9	6.8
1946	.2	1.1	1.0	4.7	4.2	.7	.6	1.6	1.4	.2	17.7	15.0	3.6	3.1	9.1	7.8	7.7	6.6
1947	.2	1.1	1.0	4.0	3.6	.6	.6	1.3	1.2	.3	17.0	14.4	3.3	2.8	7.9	6.8	7.7	6.6
1948	.2	.9	.8	4.1	3.6	.6	.6	1.3	1.2	.2	16.6	14.1	3.4	2.9	8.5	7.3	8.7	7.5
1949	.2	.9	.8	4.1	3.6	.6	.6	1.2	1.1	.2	14.7	12.5	3.1	2.7	8.2	7.1	7.6	6.5
1950	.2	.9	.8	3.9	3.5	.5	.5	1.1	1.0	.1	14.3	12.2	3.0	2.6	8.4	7.2	7.7	6.6
1951	.2	.8	.7	3.8	3.4	.5	.5	.9	.8	.1	13.3	11.3	2.7	2.3	8.8	7.6	7.6	6.5
1952	.2	.8	.7	3.4	3.0	.4	.4	1.0	.9	.1	12.8	10.9	2.6	2.2	8.6	7.4	7.8	6.7
1953	.2	.8	.7	3.5	3.1	.4	.4	.9	.8	.1	12.7	10.9	2.4	2.1	8.6	7.5	7.6	6.8
1954	.2	.7	.6	3.3	3.0	.4	.4	.8	.7	.1	12.5	10.8	1.3	1.1	8.6	7.5	8.5	7.4
1955	.2	.7	.6	3.3	3.0	.3	.3	.8	.7	.1	11.1	9.7	1.4	1.2	8.8	7.8	8.2	7.2
1956	.2	.8	.7	3.8	3.4	.3	.3	.8	.7	.1	11.8	10.4	1.5	1.3	8.6	7.6	7.9	7.0
1957	.2	.8	.7	3.9	3.7	.3	.3	.8	.7	.1	10.9	9.7	1.5	1.3	8.4	7.5	7.7	6.9
1958	.2	.8	.7	3.6	3.4	.3	.3	.8	.7	.1	10.8	9.7	1.3	1.2	7.8	7.0	8.4	7.5
1959	.2	.7	.6	3.5	3.3	.3	.3	.7	.6	.1	10.2	9.2	1.1	1.0	8.0	7.3	8.5	7.7
1960	.2	.7	.6	3.6	3.4	.4	.4	.7	.6	.1	10.5	9.6	1.3	1.2	8.0	7.3	8.1	7.4
1961	.3	.6	.5	3.5	3.3	.3	.3	.7	.6	.1	9.9	9.1	1.2	1.1	7.7	7.1	7.9	7.2
1962	.2	.6	.5	3.3	[illegible]	.3	.3	.6	.6	.1	10.0	9.3	1.2	1.1	7.2	6.7	8.0	7.4
1963 9/	.3	.6	.5	[illegible]	2.1	.3	.3	.6	.6	.1	9.9	9.2	1.1	1.0	7.0	6.4	7.7	7.1

Continued -

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Table 20.--Fresh commercial vegetables: Per capita consumption, farm and retail weights 1/ -Continued

Year	Other -Continued																Total fresh vegetables	
	Cucumbers		Eggplant		Garlic		Lettuce		Onions and shallots 4/		Peas, green (in shell)		Minor 2/		Total			
	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail	Farm	Retail
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(49)	---	(63)
1910	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(49)	---	(62)
1911	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(45)	---	(58)
1912	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(48)	---	(61)
1913	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(46)	---	(59)
1914	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(46)	---	(59)
1915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(48)	---	(61)
1916	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(49)	---	(62)
1917	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(49)	---	(62)
1918	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	(51)	---	(65)
1919	.7	.7	0.3	0.4	5/	5/	5.2	4.2	11.7	10.1	0.3	0.3	7.6	6.5	59.0	50.6	76.6	64.5
1920	.5	.5	.4	.3	0.1	0.1	7.4	6.0	14.3	12.3	.4	.4	9.6	8.1	76.2	64.9	95.0	79.9
1921	.6	.5	.5	.4	.1	.1	6.3	5.7	12.2	10.5	.6	.6	8.7	7.4	64.3	55.0	82.2	69.3
1922	.1	.7	.4	.3	.1	.1	8.0	6.5	13.0	11.2	.7	.7	9.9	8.4	72.3	61.9	92.8	78.2
1923	.8	.4	.4	.3	.1	.1	8.4	6.8	13.2	11.4	.9	.9	9.2	7.8	69.4	59.3	90.1	75.9
1924	.2	.8	.4	.3	.1	.1	9.6	7.8	13.8	11.9	1.1	1.0	10.7	9.1	79.3	67.7	100.9	84.9
1925	.4	.9	.4	.3	.1	.1	10.1	8.2	13.7	11.8	1.2	1.1	10.6	9.0	79.1	67.6	101.3	85.2
1926	.1	.7	.3	.3	.1	.1	10.7	8.7	13.4	11.5	1.4	1.3	10.6	9.0	79.7	68.1	100.6	85.0
1927	.2	.8	.4	.3	.1	.1	11.0	9.4	13.5	11.6	1.0	1.9	10.8	9.2	82.5	70.5	106.0	89.4
1928	.3	.8	.3	.3	.1	.1	11.3	9.9	13.4	11.5	2.2	2.1	10.5	8.9	81.5	69.7	104.2	88.0
1929	.0	.6	.4	.3	.1	.1	13.0	10.5	12.5	10.8	2.3	2.2	11.4	9.7	86.0	73.5	112.6	95.0
1930	.1	.7	.4	.3	.1	.1	12.6	10.4	13.0	11.2	2.6	2.5	11.7	10.0	85.2	73.0	111.9	94.7
1931	.8	.6	.4	.3	.1	.1	11.1	9.8	12.1	10.7	2.3	2.2	11.5	9.7	82.1	70.2	108.3	91.6
1932	.4	.0	.4	.3	.1	.1	11.0	8.9	11.0	9.5	2.5	2.4	11.4	9.7	81.8	70.2	108.8	92.0
1933	.3	1.9	.4	.3	.1	.1	10.8	8.7	11.4	9.8	2.7	2.6	10.4	8.8	79.2	67.9	104.5	88.5
1934	.3	.0	.4	.3	.1	.1	11.6	9.4	11.4	9.8	2.3	2.2	11.9	10.1	87.6	75.0	115.2	97.2
1935	.5	.1	.4	.3	.1	.1	11.7	9.4	11.0	9.5	2.5	2.4	11.8	10.0	83.0	71.3	111.2	94.2
1936	.1	1.9	.5	.4	.1	.1	11.3	9.0	13.3	11.4	2.5	2.4	11.7	10.0	85.1	72.8	112.5	95.1
1937	.1	1.8	.4	.4	.1	.1	10.3	8.0	12.0	10.3	2.3	2.2	11.8	10.0	82.9	70.9	111.0	93.8
1938	.4	.1	.5	.4	.1	.1	11.-	9.1	10.9	9.4	2.1	2.0	12.4	10.5	84.5	72.4	114.5	96.9
1939	.4	.1	.5	.4	.1	.1	13.1	10.7	12.6	10.8	2.3	2.2	11.9	10.1	85.6	73.2	116.6	98.3
1940	.4	.0	.4	.3	.1	.1	12.8	10.4	11.7	10.1	2.1	2.0	12.2	10.4	86.9	74.4	116.9	98.9
1941	.4	.0	.4	.4	.1	.1	13.4	10.9	12.3	9.7	2.1	2.0	12.0	10.1	84.5	72.2	113.8	96.0
1942	.4	1.9	.4	.3	.1	.1	14.-	10.7	13.9	11.1	1.7	1.6	12.4	10.5	88.1	75.3	119.0	100.5
1943	1.7	1.-	.4	.3	.1	.1	14.1	11.4	12.3	9.7	1.6	1.5	12.3	10.4	83.2	70.9	116.7	98.4
1944	1.8	1.-	.4	.4	.1	.1	16.0	13.0	13.1	11.3	1.7	1.6	12.3	10.5	90.8	77.7	123.9	104.8
1945	.4	.1	.5	.5	.1	.1	16.3	13.7	14.9	1.0	1.6	1.5	13.1	11.1	96.9	82.8	134.3	113.5
1946	.9	.7	.6	.4	.1	.1	18.8	15.-	13.4	11.2	1.4	1.3	12.3	10.5	96.2	81.8	129.9	109.3
1947	.0	.-	.4	.4	.1	.1	18.9	15.3	12.6	10.8	1.1	1.0	11.3	9.6	90.5	76.9	124.4	103.0
1948	.7	.3	.5	.4	.1	.1	16.-	14.7	11.8	10.-	.9	.9	12.6	9.9	90.4	77.0	123.0	103.8
1949	.5	.-	.4	.3	.1	.1	17.5	14.8	11.7	10.2	.8	.8	11.3	9.6	84.9	72.4	116.-	97.9
1950	.4	.1	.4	.3	.1	.1	18.0	14.6	11.8	10.-	.7	.7	10.9	9.3	84.5	72.1	115.2	97.3
1951	.6	.-	.5	.3	.1	.1	18.0	14.-	11.6	10.0	.5	.5	10.7	9.1	84.8	70.4	111.9	94.1
1952	.7	.3	.5	.4	.1	.1	19.1	15.5	11.8	10.-	.5	.5	10.-	8.9	83.0	70.5	111.6	93.8
1953	.6	.3	.4	.3	.1	.1	19.0	15.6	11.7	10.0	.4	.4	9.3	8.0	81.0	69.6	109.1	92.7
1954	.6	.4	.5	.4	.1	.1	19.0	15.8	11.1	9.7	.4	.4	8.7	7.5	79.1	68.1	107.-	91.4
1955	.9	.7	.4	.4	.1	.1	19.9	16.8	10.9	9.6	.4	.4	7.9	6.9	77.6	67.6	105.1	90.6
1956	.8	.5	.4	.4	.1	.1	21.0	18.0	11.4	10.-	.3	.3	8.7	7.7	79.7	70.1	107.1	93.4
1957	1.1	.8	.5	.5	.1	.1	20.1	17.-	11.8	10.6	.3	.3	9.0	8.0	78.5	69.9	106.4	93.8
1958	.8	.5	.4	.4	.1	.1	19.-	1.-	11.7	10.8	.3	.3	8.8	7.9	76.9	68.9	103.7	92.-
1959	.0	.5	.5	.4	.1	.1	19.-	17.-	11.5	10.-	.2	.2	9.0	8.2	75.5	68.3	102.9	92.3
1960	.9	.8	.4	.4	.1	.1	19.3	17.5	12.1	11.-	.2	.2	9.9	9.0	77.8	71.0	105.8	95.9
1961	.1	.8	.4	.4	.1	.1	19.6	18.0	11.7	10.9	.2	.2	10.3	9.5	76.7	70.6	104.9	95.8
1962	.8	.5	.4	.4	.1	.1	19.8	18.4	11.7	11.0	.2	.2	9.6	8.9	75.3	70.1	102.8	94.8
1963 p/	.1	.9	.4	.4	.1	.1	19.6	18.-	11.9	11.-	.2	.2	9.1	8.5	75.4	70.3	102.9	95.1

1/ Excludes quantities produced in home gardens. Data in parentheses are approximations. Retail weight derived from farm weight using factors indicated in table 6.
2/ Minor items allocated to groups on basis of earlier shipment data prior to 1954; subsequently distributed on basis of production of known items.
3/ Close trim basis since 1954; slight trim basis in prior years.
4/ Includes 0.1 pound of shallots each year 1919 through 1958; since 1958 less than 0.05 pound. In earlier years shallots included in minor vegetables.
5/ Included in minor vegetables.
6/ Less than 0.05 pound.
7/ Farm weight shown; retail weight 0.4 pound.
8/ Farm weight shown; retail weight 0.- pound.
9/ Preliminary.

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Table 21.—Canned vegetables, potatoes, and sweetpotatoes: Per capita consumption, 1909-63 1/

Year	Vegetables 2/																						Potatoes and sweetpotatoes 2/		Total vegetables, potatoes, and sweetpotatoes
	Tomato products						Dark green and deep yellow					Other vegetables													
	Whole tomatoes	Catsup and chili sauce	Paste and sauce	Pulp and puree	Tomato juices and other vegetable juices 3/	Total	Carrots	Pumpkin and squash	Spinach	Other	Total	Asparagus	Beans, Lima	Beans, Snap	Beets	Corn	Peas	Pickles	Sauerkraut	Other 4/	Total	Total vegetables	Potatoes	Sweetpotatoes	
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	6.0	—	—	—	—	6.0	—	—	—	(0.4)	(0.4)	—	—	—	—	2.1	1.8	—	—	5.0	8.9	15.3	—	—	15.3
1910	5.4	—	—	—	—	5.4	—	—	—	(.4)	(.4)	—	—	—	—	2.5	1.5	—	—	4.7	8.7	14.5	—	—	14.5
1911	4.9	—	—	—	—	4.9	—	—	—	(.4)	(.4)	—	—	—	—	3.8	1.4	—	—	5.1	10.3	15.6	—	—	15.6
1912	5.9	—	—	—	—	5.9	—	—	—	(.5)	(.5)	—	—	—	—	4.3	1.9	—	—	6.1	12.3	18.7	—	—	18.7
1913	7.1	—	—	—	—	7.1	—	—	—	(.6)	(.6)	—	—	—	—	3.3	2.5	—	—	6.3	12.1	19.8	—	—	19.8
1914	7.2	—	—	—	—	7.2	—	—	—	(.6)	(.6)	—	—	—	—	2.5	2.7	—	—	6.2	11.4	19.2	—	—	19.2
1915	6.0	—	—	—	—	6.0	—	—	—	(.5)	(.5)	—	—	—	—	3.0	2.7	—	—	5.8	11.5	18.0	—	—	18.0
1916	5.0	—	—	—	—	5.0	—	—	—	(.5)	(.5)	—	—	—	—	2.8	2.4	—	—	5.4	10.6	16.1	—	—	16.1
1917	6.6	—	—	—	—	6.6	—	—	—	(.6)	(.6)	—	—	—	—	2.8	2.4	—	—	6.5	11.7	18.9	—	—	18.9
1918	7.2	—	—	—	—	7.2	—	—	—	(.7)	(.7)	—	—	—	—	3.2	3.0	—	—	8.2	14.4	22.3	—	—	22.3
1919	6.4	—	—	—	—	6.4	—	—	—	(.6)	(.6)	—	—	0.9	—	3.6	2.8	1.6	1.4	4.0	14.3	21.3	—	—	21.3
1920	5.0	—	—	—	—	5.0	—	0.2	0.4	—	.6	0.4	—	.8	0.3	4.0	3.0	1.2	.8	2.1	12.6	18.2	—	0.3	18.5
1921	4.4	—	—	—	—	4.4	—	.2	.3	—	.5	.3	—	.5	.2	3.8	2.8	1.2	.9	2.0	11.7	16.6	—	.3	16.9
1922	4.5	—	—	—	—	4.5	—	.2	.6	—	.8	.3	0.1	.6	.2	3.2	2.9	1.8	1.2	1.2	11.5	16.8	—	.3	17.1
1923	5.8	—	—	—	—	5.8	—	.3	.8	—	1.1	.4	.1	.7	.2	3.4	3.6	1.2	2.2	2.5	14.3	21.2	—	.3	21.5
1924	6.1	—	0.2	0.6	—	6.9	—	.4	.5	—	.9	.4	.1	.9	.3	3.4	4.3	1.3	2.1	2.1	14.9	22.7	—	.3	23.0
1925	7.0	—	.4	.7	—	8.1	—	.4	.6	—	1.0	.4	.2	1.3	.5	3.8	4.6	1.5	1.5	2.5	16.3	25.4	—	.3	25.7
1926	6.8	2.1	.4	.7	—	10.0	—	.4	.5	—	.9	.4	.2	1.3	.4	4.4	4.3	2.5	1.3	—	14.8	25.7	—	.2	25.9
1927	5.4	1.8	.3	.6	—	8.1	—	.4	.7	—	1.1	.4	.1	1.0	.3	3.9	4.2	1.4	1.6	—	12.9	22.1	—	.2	22.3
1928	5.5	1.7	.3	.6	—	8.1	—	.5	1.0	—	1.5	.5	.1	1.3	.3	3.7	4.1	1.2	2.0	—	13.2	22.8	—	.2	23.0
1929	5.9	1.8	.3	.6	—	8.6	—	.8	1.3	.1	2.2	.5	.2	1.7	.4	3.9	4.4	1.8	2.0	—	14.9	25.7	—	.2	25.9
1930	6.6	1.8	.4	1.0	0.2	10.0	—	.6	.8	.8	2.2	.4	.2	2.0	.6	4.2	4.6	1.8	2.3	—	16.1	28.3	—	.1	28.4
1931	5.8	1.7	.2	.8	.6	9.1	—	.4	.6	—	1.0	.4	.3	1.7	.6	3.8	4.1	1.8	2.4	—	15.1	25.2	—	.1	25.3
1932	5.2	1.6	.2	.5	1.1	8.6	0.1	.4	.5	.3	1.3	.4	.2	1.3	.3	3.4	3.2	1.6	1.7	—	12.1	22.0	—	.1	22.1
1933	5.4	1.5	.4	.6	1.1	9.0	.1	.5	.6	—	1.2	.5	.2	1.1	.3	3.1	3.2	1.6	1.7	—	11.7	21.9	—	.1	22.0
1934	5.4	1.5	.4	.7	1.1	9.1	.2	.5	.8	.5	2.0	.5	.2	1.3	.4	2.9	3.6	1.7	1.5	—	12.1	23.2	—	.1	23.3
1935	5.7	1.6	.5	.8	1.6	10.2	.2	.3	.8	.3	1.6	.4	.3	1.4	.5	3.5	4.0	1.8	2.4	—	14.3	26.1	—	.1	26.2
1936	5.8	1.6	.5	.8	2.4	11.1	.2	.4	.9	.6	2.1	.5	.3	1.5	.5	4.1	4.3	2.0	1.4	-.2	14.4	27.6	—	.1	27.7
1937	5.6	1.7	.5	.8	3.0	11.6	.2	.5	1.0	.8	2.5	.5	.3	1.8	.6	3.9	4.6	2.1	1.4	—	15.2	29.3	—	.1	29.4
1938	5.9	1.8	.7	.7	2.8	11.9	.2	.4	.9	.8	2.3	.5	.3	2.0	.6	4.0	4.9	2.3	1.9	.3	16.8	31.0	—	.1	31.1
1939	5.8	2.1	.7	.6	2.7	11.9	.2	.6	.9	.7	2.4	.6	.4	2.1	.7	4.3	5.0	2.2	2.0	.1	17.4	31.7	—	.1	31.8
1940	5.9	2.5	.8	.7	3.0	12.9	.3	.7	1.1	.7	2.8	.6	.5	2.3	.8	4.5	5.5	2.2	2.1	—	18.5	34.2	—	.2	34.4
1941	6.0	2.5	.9	.6	3.7	13.7	.4	.6	.9	.8	2.7	.6	.6	2.3	.9	4.8	6.2	2.5	2.3	—	20.2	36.6	—	.3	36.9
1942	6.2	2.4	1.1	.8	4.4	14.9	.3	.6	1.2	.7	2.8	.7	.6	2.6	1.2	5.6	6.4	2.8	2.1	-.2	21.8	39.5	—	.2	39.7
1943	5.6	1.7	1.5	1.2	4.1	14.1	.2	.6	.8	.7	2.3	.6	.4	2.6	1.1	5.4	5.9	2.5	1.8	—	20.3	36.7	—	.3	37.0
1944	4.9	2.0	2.0	1.5	2.9	13.3	.3	.5	1.4	.8	3.0	.6	.2	2.9	1.0	5.0	5.3	2.2	.7	-.1	17.8	34.1	—	.3	34.4
1945	4.1	2.4	2.7	2.1	7.0	18.3	.4	.4	1.1	1.2	3.1	.4	.3	3.3	1.4	5.6	7.2	2.3	1.0	—	21.5	42.9	—	.3	43.2
1946	4.0	2.9	3.1	2.1	5.2	17.3	.6	.6	1.6	.7	3.5	1.0	.4	3.3	1.4	6.3	7.6	2.9	2.3	—	25.2	46.0	0.1	.7	46.8
1947	3.9	2.7	2.7	1.6	3.9	14.8	.4	.6	1.1	.7	2.8	.6	.3	2.7	1.2	5.8	5.9	3.3	2.4	—	22.2	39.8	.2	.5	40.5
1948	4.4	2.2	2.3	.5	4.2	13.6	.4	.6	1.0	1.0	3.0	.7	.4	2.8	1.2	5.0	5.8	3.4	1.1	.4	20.8	37.4	.2	.3	37.9
1949	4.7	2.5	2.2	.6	4.5	14.5	.3	.5	1.1	1.2	3.1	.6	.4	2.9	1.0	4.9	5.3	3.3	2.0	.3	20.7	38.3	.2	.5	39.0
1950	5.1	2.7	2.4	.7	5.0	15.9	.4	.6	.9	1.2	3.1	.7	.6	3.4	1.2	5.2	5.4	3.3	1.9	.5	22.2	41.2	.2	.7	42.1
1951	4.9	2.5	3.3	.8	4.7	16.2	.3	.6	1.2	1.2	3.3	.7	.5	3.2	1.5	4.9	5.4	3.1	2.3	.4	22.0	41.5	.2	.4	42.1
1952	4.1	2.8	2.7	.9	5.1	15.6	.4	.7	1.0	1.2	3.3	.7	.5	3.4	1.4	4.8	5.1	3.6	2.0	.4	21.9	40.8	.4	.8	42.0
1953	4.5	2.7	2.9	.8	5.5	16.4	.4	.6	1.0	1.1	3.1	.8	.5	3.5	1.4	5.2	4.9	3.9	1.9	.6	22.7	42.2	.4	.7	43.3
1954	4.6	2.8	2.7	.5	5.1	15.7	.4	.7	.7	1.0	2.8	.8	.5	3.6	1.4	5.2	4.9	3.9	2.0	.3	22.6	41.1	.2	.6	41.9
1955	4.5	3.0	3.3	.7	4.8	16.3	.4	.7	.9	1.0	3.0	.7	.5	4.0	1.3	5.3	4.8	3.9	1.9	.5	22.9	42.2	.4	.8	43.4
1956	4.6	3.1	3.3	.9	4.6	16.5	.4	.7	1.0	1.0	3.1	.8	.5	4.1	1.5	5.3	4.9	3.8	2.0	.2	23.1	42.7	.4	.8	43.9
1957	4.6	3.3	3.2	.7	5.3	17.1	.4	.7	.9	.9	2.9	.8	.5	3.9	1.4	5.4	4.8	3.9	1.6	.4	22.7	42.7	.4	.8	43.9
1958	4.6	3.5	3.4	.7	4.7	16.9	.5	.6	1.0	1.0	3.1	.8	.4	4.2	1.5	5.4	4.7	4.1	1.8	.3	23.2	43.2	.4	1.1	44.7
1959	4.6	3.6	3.5	.7	5.1	17.5	.5	.6	1.0	.9	3.0	.8	.4	4.2	1.5	5.1	4.9	4.0	1.6	.2	22.7	43.2	.4	1.2	44.8
1960	4.6	3.8	3.8	.7	4.7	17.6	.6	.6	.9	.8	2.9	.7	.4	4.2	1.4	5.3	4.4	3.9	1.7	.5	22.5	43.0	.4	.9	44.3
1961	4.8	3.9	3.7	.8	4.6	17.8	.5	.6	.8	.7	2.6	.8	.4	4.3	1.3	5.0	4.4	4.1	1.7	.6	22.6	43.0	.5	1.0	44.5
1962	4.6	4.1	3.9	.8	4.7	18.1	.6	.6	.9	.8	2.9	.8	.4	4.5	1.4	5.5	4.1	4.6	1.7	.4	23.4	44.4	.4	1.3	46.1
1963 5/	4.6	4.3	3.9	.8	5.4	19.0	.6	.6	.9	.7	2.8	.7	.4	4.4	1.5	5.6	4.1	4.5	1.6	.5	23.3	45.1	.3	1.1	46.5

1/ Data in parentheses are approximations. Excludes soups, baby foods, and canned dry bean and pea products. In 1909-42 calendar-year data are derived from pack-year data by combining proportional parts of each pack year involved. *Civilian consumption beginning 1941.*

2/ Minor vegetables and, especially in earlier years, items for which data are not shown separately are derived as a residual and included in "other" vegetables. The portion of this shown for 1909-19 in the green and yellow group is a rough approximation.

3/ Tomato juice comprises approximately 85 percent of the total, combination vegetable juices 13 percent, and other vegetable juices 2 percent. Combination vegetable juice contains approximately 70 percent or more tomato juice. Therefore, tomato juice content is about 94 percent of the total.

4/ Computed as a residual minus the items in the green and yellow group (see footnote 2). Negative amounts occur because of an adjustment for exports of unspecified items.

5/ Preliminary.

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Table 20.--Frozen vegetables, rhubarb, and potato products: Per capita consumption, 1937-63 1/

Year	Vegetables																		Other items		Total 3/
	Dark green and deep yellow vegetables							Other vegetables										Total vegetables			
	Broccoli	Carrots	Peas and carrots	Pumpkin and squash	Spinach	Other 2/	Total	Asparagus	Snap beans	Lima beans	Brussels sprouts	Cauliflower	Corn, cut basis	Peas	Succotash	Other	Total		Rhubarb	Potato products	
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1937	0.01	4/	4/	4/	0.02	---	0.03	0.03	0.05	0.11	4/	4/	0.03	0.15	5/	---	0.37	0.40	5/	5/	0.40
1938	.02	4/	4/	0.01	.02	---	.05	.05	.05	.09	4/	4/	.02	.15	5/	---	.36	.41	5/	5/	.41
1939	.02	4/	0.01	.01	.01	---	.05	.03	.04	.11	4/	4/	.04	.22	5/	0.01	.45	.50	5/	5/	.50
1940	.01	4/	4/	.01	.04	---	.06	.05	.04	.13	0.01	0.01	.05	.21	5/	.01	.51	.57	5/	5/	.57
1941	.03	0.01	4/	.01	.01	---	.06	.05	.07	.11	.01	4/	.04	.32	5/	.01	.61	.67	5/	5/	.67
1942	.03	.01	.01	.02	.13	---	.20	.04	.10	.24	.02	.01	.07	.41	5/	.01	.90	1.10	5/	5/	1.10
1943	.03	4/	.01	.03	.11	---	.18	.06	.05	.14	.02	4/	.02	.27	5/	---	.56	.74	4/	5/	.74
1944	.03	.03	.02	.07	.18	---	.33	.11	.16	.17	.05	.04	.11	.56	4/	.06	1.26	1.59	0.04	5/	1.63
1945	.08	.02	.02	.08	.26	---	.46	.14	.20	.17	.05	.04	.13	.62	0.01	.04	1.40	1.86	.04	5/	1.90
1946	.12	.04	.04	.03	.20	---	.43	.13	.20	.27	.07	.07	.15	.60	.01	.06	1.56	1.99	.05	5/	2.04
1947	.11	.07	.04	.06	.22	---	.50	.11	.26	.38	.04	.04	.25	.81	.01	.09	1.99	2.49	.08	0.01	2.58
1948	.17	.05	.07	.05	.31	0.01	.66	.14	.29	.38	.07	.09	.23	.91	.05	.09	2.25	2.91	.02	.05	2.98
1949	.21	.10	.04	.03	.29	.01	.68	.13	.28	.49	.12	.10	.22	.75	.05	.10	2.24	2.92	.02	.07	3.01
1950	.22	.08	.06	.06	.38	.02	.82	.12	.35	.51	.09	.09	.21	.86	.05	.13	2.41	3.23	.03	.12	3.38
1951	.31	.09	.08	.06	.50	.04	1.08	.13	.45	.55	.13	.13	.31	1.02	.06	.18	2.96	4.04	.04	.23	4.31
1952	.44	.11	.10	.06	.50	.06	1.27	.15	.53	.71	.14	.18	.39	1.16	.08	.27	3.61	4.88	.04	.36	5.28
1953	.43	.13	.09	.07	.51	.05	1.28	.16	.57	.73	.18	.16	.45	1.25	.06	.25	3.81	5.09	.03	.31	5.43
1954	.47	.17	.11	.09	.51	.06	1.41	.17	.64	.66	.16	.17	.43	1.40	.07	.30	4.00	5.41	.05	.44	5.90
1955	.54	.21	.10	.09	.57	.09	1.60	.16	.66	.72	.17	.19	.51	1.34	.06	.45	4.26	5.86	.04	.74	6.64
1956	.54	.15	.08	.10	.56	.06	1.49	.17	.72	.75	.20	.19	.66	1.50	.03	.33	4.55	6.04	.02	1.20	7.26
1957	.50	.26	.12	.12	.53	.08	1.61	.16	.73	.73	.19	.15	.59	1.58	.07	.43	4.63	6.24	.04	1.21	7.49
1958	.56	.26	.11	.09	.55	.09	1.66	.15	.79	.72	.17	.17	.69	1.64	.06	.55	4.94	6.60	.03	1.44	8.07
1959	.59	.27	.14	.10	.62	.09	1.81	.19	.80	.69	.20	.20	.68	1.61	.05	.58	5.00	6.81	.03	2.04	8.88
1960	.63	.35	.16	.10	.55	.10	1.89	.21	.76	.73	.19	.19	.64	1.75	.04	.65	5.16	7.05	.03	2.67	9.75
1961	.59	.33	.14	.12	.57	.13	1.88	.15	.72	.67	.19	.19	.70	1.64	.05	.89	5.20	7.08	.04	2.83	9.95
1962	.62	.39	.13	.07	.56	.12	1.89	.18	.81	.70	.20	.22	.85	1.83	.04	.97	5.80	7.69	.03	3.84	11.56
1963 6/	.60	.34	.08	.06	.57	.10	1.75	.16	.88	.70	.19	.19	.88	1.78	.03	.84	5.65	7.40	.03	4.47	11.90

1/ Civilian consumption only, beginning 1941.

2/ This category includes collards, kale, mustard greens, and turnip greens.

3/ Computed from unrounded data.

4/ Less than 0.005 pound.

5/ Included with "other vegetables."

6/ Preliminary.

Table 23.--Canned soups and baby foods: Per capita consumption, 1909-63 1/

Year	Canned soups 2/	Baby foods 3/			
		Fruit	Vegetable	Other 4/	Total
	Pounds	Pounds	Pounds	Pounds	Pounds
1909	0.3	---	---	---	---
1910	.5	---	---	---	---
1911	.7	---	---	---	---
1912	.9	---	---	---	---
1913	1.2	---	---	---	---
1914	1.6	---	---	---	---
1915	1.6	---	---	---	---
1916	1.6	---	---	---	---
1917	1.7	---	---	---	---
1918	1.7	---	---	---	---
1919	1.8	---	---	---	---
1920	1.9	---	---	---	---
1921	2.0	---	---	---	---
1922	3.1	---	---	---	---
1923	4.0	---	---	---	---
1924	3.2	---	---	---	---
1925	2.5	---	---	---	---
1926	2.7	---	---	---	---
1927	3.0	---	---	---	---
1928	3.4	---	---	---	---
1929	3.9	---	---	---	---
1930	3.1	---	---	---	---
1931	2.3	---	---	---	---
1932	2.2	---	---	---	---
1933	2.0	---	---	---	---
1934	3.2	0.01	0.04	0.04	0.09
1935	3.6	.01	.04	.04	.09
1936	4.2	.02	.10	.05	.17
1937	5.1	.05	.17	.06	.28
1938	5.4	.06	.18	.04	.28
1939	6.4	.08	.21	.10	.39
1940	6.8	.12	.28	.12	.52
1941	7.0	.14	.32	.27	.73
1942	7.4	.39	.49	.29	1.17
1943	5.3	.45	.73	.44	1.62
1944	6.7	.56	.82	.71	2.09
1945	7.5	.87	.92	.95	2.74
1946	8.8	.96	.81	1.02	2.79
1947	(8.8)	1.00	.78	1.01	2.79
1948	(9.7)	1.25	.91	1.38	3.54
1949	(9.7)	1.22	.83	1.31	3.36
1950	(10.3)	1.28	.80	1.33	3.41
1951	(10.6)	1.28	.78	1.36	3.42
1952	(11.4)	1.37	.83	1.48	3.68
1953	(11.9)	1.46	.81	1.64	3.91
1954	(12.3)	1.50	.81	1.70	4.01
1955	(12.7)	1.43	.79	1.76	3.98
1956	(13.1)	1.43	.77	1.90	4.10
1957	(13.7)	(1.66)	(.73)	(1.90)	(4.29)
1958	(14.4)	(1.83)	(.80)	(1.95)	(4.58)
1959	(15.0)	(1.95)	(.83)	(1.98)	(4.76)
1960	(15.5)	(2.07)	(.85)	(2.00)	(4.92)
1961	(15.8)	(2.18)	(.87)	(2.02)	(5.07)
1962	(16.0)	(2.24)	(.89)	(2.07)	(5.20)
1963	(16.2)	(2.30)	(.90)	(2.12)	(5.32)

1/ Civilian consumption beginning 1941. 2/ In current years tomato soup constitutes about 20 percent of the total. In years 1909-34 based on production data from Census of Manufactures, with interpolations for years not reported; beginning 1947 rough approximations only. 3/ For consumption per child under 3 years, see table 70. Data not available after 1956. Approximated 1957 to date on basis of production information obtained in 1958 Census of Manufactures. 4/ In current years meat constitutes approximately 80 percent of this item, custards and puddings 20 percent.

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Table 24.--Per capita consumption from home gardens, 1909-63 1/

Year	Vegetables				Melons	Dry beans and peas	Potatoes 4/	Sweet-potatoes 4/
	Tomatoes	Dark green and deep yellow vegetables 2/	Other vegetables 3/	Total				
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	30	8	88	126	18	6	14	1.5
1910	30	8	88	126	18	6	13	1.5
1911	30	8	88	126	18	6	13	1.4
1912	30	8	88	126	18	6	13	1.4
1913	30	8	83	121	18	6	12	1.3
1914	30	9	86	125	15	5	12	1.3
1915	30	9	81	120	15	5	11	1.2
1916	30	9	81	120	15	5	11	1.2
1917	30	11	79	120	15	5	10	1.5
1918	30	11	79	120	15	5	10	1.5
1919	27	11	78	116	15	4	10	1.3
1920	27	11	78	116	15	4	9	1.3
1921	25	15	76	116	15	4	9	1.1
1922	25	15	72	112	14	4	8	1.1
1923	25	15	68	108	13	4	8	1.0
1924	22	15	68	105	12	3	7	1.0
1925	22	15	68	105	12	3	7	1.0
1926	22	15	68	105	12	3	7	1.0
1927	22	14	64	100	12	3	6	.9
1928	22	14	64	100	12	3	6	.9
1929	21	14	64	99	13	3	6	.8
1930	23	14	65	102	13	3	6	.8
1931	23	14	64	101	13	3	6	.8
1932	25	14	67	106	13	3	7	.8
1933	25	14	67	106	14	3	7	.8
1934	23	14	66	103	14	3	7	.9
1935	25	14	65	104	14	3	7	.7
1936	25	14	64	103	14	3	7	.6
1937	25	14	64	103	14	3	7	.6
1938	25	14	63	102	14	3	7	.6
1939	24	13	63	100	14	3	7	.6
1940	24	13	62	99	14	3	7	.6
1941	22	13	61	96	13	3	7	.6
1942	25	13	61	99	12	3	6	.5
1943	30	14	62	106	12	3	7	.5
1944	31	14	62	107	12	3	8	.7
1945	29	14	61	104	12	3	6	.8
1946	27	12	53	92	12	2	6	.8
1947	25	11	51	87	11	2	5	.8
1948	24	11	48	83	11	2	5	.7
1949	22	10	45	77	10	2	5	.6
1950	20	9	44	73	9	2	4	.5
1951	20	8	43	71	9	1	4	.5
1952	19	8	41	68	8	1	4	.5
1953	19	7	39	65	8	.7	4	.5
1954	19	7	38	64	7	.6	4	.5
1955	19	7	38	64	7	.5	4	.5
1956	18	7	36	61	6	.4	4	.5
1957	16	6	35	59	6	.3	3	.4
1958	17	6	34	57	6	.3	3	.4
1959	17	5	33	55	5	.2	3	.4
1960	17	5	32	54	5	.2	3	.4
1961	16	5	31	52	5	.2	3	.4
1962	16	4	30	50	4	.1	3	.3
1963	16	4	30	50	4	.1	3	.3

1/ Rough approximations of consumption of the produce from farm, rural nonfarm, and urban gardens, based largely on the 1955 Household Food Consumption Survey. 2/ Includes lettuce, escarole (leaf), pumpkin, squash, other greens, and other dark green and deep yellow vegetables. 3/ Includes beets, cabbage, corn, cucumbers, lima beans, onions, green peas, radishes, snap beans, and miscellaneous other vegetables. 4/ Excludes farm-garden output.

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Table 25.--Potatoes, sweetpotatoes, dry edible beans, dry field peas, and soya products: Per capita consumption, farm and retail weights, 1909-63 1/

Year	Potatoes									Sweetpotatoes							Dry edible beans 8/	Dry field peas 9/	Soya grits and flour
	Canned		Frozen		Fresh use and other processed 3/		Total			Used fresh 6/		Canned		Total 7/					
							Fresh equivalent							Fresh equivalent					
	Farm	Retail	Farm	Retail 2/	Farm	Retail 4/	Farm	Retail	Retail 5/	Farm	Retail 4/	Farm	Retail	Farm	Retail	Retail			
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	---	---	---	---	187	173.9	187	173.9	173.9	26.2	22.5	---	---	26.2	22.5	22.5	6.8	(0.5)	---
1910	---	---	---	---	198	184.1	198	184.1	184.1	26.2	22.5	---	---	26.2	22.5	22.5	6.5	(.5)	---
1911	---	---	---	---	157	146.0	157	146.0	146.0	24.0	20.6	---	---	24.0	20.6	20.6	6.3	(.5)	---
1912	---	---	---	---	179	166.5	179	166.5	166.5	24.0	20.6	---	---	24.0	20.6	20.6	6.8	(.5)	---
1913	---	---	---	---	189	175.8	189	175.8	175.8	23.6	20.3	---	---	23.6	20.3	20.3	6.1	(.5)	---
1914	---	---	---	---	157	146.0	157	146.0	146.0	22.1	19.0	---	---	22.1	19.0	19.0	6.4	(.5)	---
1915	---	---	---	---	185	172.0	185	172.0	172.0	25.3	21.8	---	---	25.3	21.8	21.8	5.8	(.5)	---
1916	---	---	---	---	143	133.0	143	133.0	133.0	24.5	21.1	---	---	24.5	21.1	21.1	5.1	(.5)	---
1917	---	---	---	---	146	135.8	146	135.8	135.8	27.9	24.0	---	---	27.9	24.0	24.0	7.5	(.5)	---
1918	---	---	---	---	174	161.8	174	161.8	161.8	26.7	23.0	---	---	26.7	23.0	23.0	7.4	(.5)	---
1919	---	---	---	---	152	141.4	152	141.4	141.4	29.3	25.2	---	---	29.3	25.2	25.2	5.4	(.5)	---
1920	---	---	---	---	140	130.2	140	130.2	130.2	29.1	25.0	0.4	0.3	29.5	25.4	25.3	5.7	(.5)	---
1921	---	---	---	---	156	145.1	156	145.1	145.1	27.2	23.4	.3	.3	27.5	23.7	23.7	4.8	(.5)	---
1922	---	---	---	---	143	133.0	143	133.0	133.0	28.9	24.9	.3	.3	29.2	25.2	25.2	5.1	(.5)	---
1923	---	---	---	---	174	161.8	174	161.8	161.8	24.8	21.3	.3	.3	25.1	21.6	21.6	5.9	(.5)	---
1924	---	---	---	---	154	143.2	154	143.2	143.2	17.6	15.1	.3	.3	17.9	15.4	15.4	7.8	(.5)	---
1925	---	---	---	---	157	146.0	157	146.0	146.0	17.7	15.2	.3	.3	18.0	15.5	15.5	7.3	(.5)	---
1926	---	---	---	---	128	119.0	128	119.0	119.0	21.1	18.1	.2	.2	21.3	18.3	18.3	7.6	(.5)	---
1927	---	---	---	---	141	131.1	141	131.1	131.1	25.0	21.5	.2	.2	25.2	21.7	21.7	8.7	(.5)	---
1928	---	---	---	---	147	136.7	147	136.7	136.7	20.7	17.8	.2	.2	20.9	18.0	18.0	8.6	.5	---
1929	---	---	---	---	159	147.9	159	147.9	147.9	22.4	19.3	.2	.2	22.6	19.5	19.5	7.8	.4	---
1930	---	---	---	---	132	122.8	132	122.8	122.8	18.3	15.7	.1	.1	18.4	15.8	15.8	9.5	.5	---
1931	---	---	---	---	136	126.5	136	126.5	126.5	20.6	17.7	.1	.1	20.7	17.8	17.8	8.8	.7	---
1932	---	---	---	---	134	124.6	134	124.6	124.6	27.7	23.8	.1	.1	27.8	23.9	23.9	7.4	.6	---
1933	---	---	---	---	132	122.8	132	122.8	122.8	24.0	20.6	.1	.1	24.1	20.7	20.7	7.1	.9	---
1934	---	---	---	---	135	125.6	135	125.6	125.6	24.4	21.0	.1	.1	24.5	21.1	21.1	9.1	.8	---
1935	---	---	---	---	140	130.1	140	130.1	130.1	25.6	22.0	.1	.1	25.7	22.1	22.1	8.4	.5	(0.2)
1936	---	---	---	---	130	120.9	130	120.9	120.9	19.8	17.0	.1	.1	19.9	17.1	17.1	9.0	.6	(.2)
1937	---	---	---	2/	126	117.2	126	117.2	117.2	21.5	18.5	.2	.1	21.7	18.7	18.6	7.8	.6	(.2)
1938	---	---	---	2/	129	120.0	129	120.0	120.0	21.3	18.3	.2	.1	21.5	18.5	18.4	9.6	.6	(.2)
1939	---	---	---	2/	122	113.5	122	113.5	113.5	19.7	16.9	.1	.1	19.8	17.0	17.0	9.3	.7	(.2)
1940	---	---	---	2/	123	114.4	123	114.4	114.4	16.2	13.9	.2	.2	16.4	14.1	14.1	8.4	.7	(.2)
1941	---	---	---	2/	128	119.0	128	119.0	119.0	18.4	15.8	.4	.3	18.8	16.2	16.1	8.8	.5	(.2)
1942	---	---	---	2/	127	118.1	127	118.1	118.1	20.4	17.5	.3	.2	20.7	17.8	17.7	11.1	.6	(.6)
1943	---	---	---	2/	125	116.2	125	116.2	116.2	21.4	18.4	.3	.3	21.7	18.7	18.7	8.9	.8	(1.0)
1944	---	---	---	2/	136	126.5	136	126.5	126.5	19.7	16.9	.4	.3	20.1	17.3	17.2	8.1	.8	(.8)
1945	---	---	---	2/	122	113.5	122	113.5	113.5	18.3	15.7	.4	.3	18.7	16.1	16.0	7.8	.8	(.7)
1946	0.2	0.1	---	2/	123.1	114.5	123	114.7	114.6	17.2	14.8	.7	.7	17.9	15.5	15.5	8.7	.7	(.7)
1947	.2	.2	10/	10/	126.3	116.5	126	116.7	116.7	14.5	12.5	.5	.5	15.0	13.0	13.0	6.5	.5	(.7)
1948	.4	.2	0.1	0.1	104.9	97.6	105	98.1	97.9	11.5	9.9	.3	.3	11.8	10.2	10.2	6.8	.8	(.7)
1949	.3	.2	.2	.1	110.0	102.3	110	102.8	102.6	11.7	10.1	.6	.5	12.3	10.7	10.6	6.9	.4	.8
1950	.3	.2	.3	.1	105.7	98.3	106	98.9	98.6	12.1	10.4	.8	.7	12.9	11.2	11.1	8.6	.8	.9
1951	.2	.2	.6	.2	112.8	104.9	114	105.7	105.3	8.1	7.0	.4	.4	8.5	7.4	7.4	8.1	.7	.7
1952	.5	.4	.9	.4	100.5	93.5	102	94.9	94.3	7.3	6.3	.9	.8	8.2	7.2	7.1	8.1	.5	.9
1953	.6	.4	.8	.3	106.4	99.3	108	100.7	100.0	8.0	6.9	.8	.7	8.8	7.7	7.6	7.6	.6	.7
1954	.3	.2	1.1	.4	105.7	98.9	107	100.3	99.6	8.1	7.0	.7	.6	8.8	7.7	7.6	8.0	.6	.8
1955	.6	.4	1.8	.7	106.5	100.0	109	102.4	101.1	8.4	7.3	.9	.8	9.3	8.1	8.1	7.5	.5	(1.5)
1956	.6	.4	2.9	1.2	99.3	93.5	103	97.0	95.1	7.8	6.8	.9	.8	8.7	7.7	7.6	8.0	.7	(1.3)
1957	.6	.4	2.9	1.2	105.9	100.1	109	103.6	101.7	7.6	6.7	.9	.8	8.5	7.6	7.5	7.6	.6	(1.3)
1958	.6	.4	3.5	1.4	100.5	95.3	105	99.4	97.1	6.9	5.7	1.3	1.1	7.8	7.0	6.8	7.7	.4	(1.3)
1959	.5	.4	5.0	2.1	101.1	96.1	107	101.6	98.6	7.3	6.5	1.3	1.2	8.6	7.8	7.7	7.7	.7	11/
1960	.6	.4	6.6	2.7	101.2	96.5	108	103.7	99.6	6.3	5.6	1.0	.9	7.3	6.6	6.5	7.3	.3	11/
1961	.7	.5	6.8	3.8	101.8	97.4	109	104.9	100.7	5.5	4.9	1.2	1.0	6.7	6.1	5.9	8.0	.2	11/
1962	.6	.4	9.2	3.9	98.3	94.4	108	104.2	98.7	6.1	5.5	1.5	1.3	7.6	7.0	6.8	7.8	.5	11/
1963 12/	.5	.3	10.7	4.5	100.9	96.9	112	108.1	101.7	5.9	5.3	1.2	1.1	7.1	6.5	6.4	7.5	.3	11/

1/ Civilian consumption only, beginning 1941. Calendar year basis except for dry field peas for which the year begins in September of year indicated. Data for potatoes and sweetpotatoes include farm garden production, but exclude nonfarm garden output; data for dry beans and peas exclude all home-garden produce. Data in parentheses are rough approximations only. 2/ Prior to 1947 negligible quantities are included with "other" frozen vegetables. 3/ Includes fresh equivalent of potatoes used in mixtures, flour, dehydration, chips, and shoestring potatoes. These uses in recent years amounted to about 16 to 18 percent of the quantity shown. 4/ Factors used to convert from farm weight to retail weight are indicated in table 6. 5/ Includes fresh equivalent of items listed in footnote 3. 6/ Includes processed sweetpotatoes other than canned and, beginning 1961, frozen. 7/ Excludes insignificant quantities of frozen sweetpotato products beginning 1961. 8/ Cleaned basis, calendar years. 9/ Cleaned basis, crop years beginning approximately September of year indicated. Prior to 1928 basic data are inadequate. 10/ Less than 0.05 pound. 11/ Data no longer reported. 12/ Preliminary.

Table 26.—Flour and other cereal products: Per capita consumption, 1909-63 1/

Year	Wheat flour			Wheat cereal	Rye flour	Buck-wheat flour 3/	Rice 4/	Corn products 5/				Oat food products 7/	Barley products 8/	Total
	White and whole wheat	Semolina and durum flour 2/	Total					Flour and meal 6/	Cereal	Starch	Hominy and grits			
	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909	213	(4.2)	217	(2.7)	3.5	2.3	7.3	53.0	(1.3)	(1.0)	(4.6)	3.2	3.6	300
1910	210	(4.2)	214	(2.7)	3.6	2.1	8.3	51.1	(1.3)	(1.0)	(4.5)	3.3	3.5	295
1911	209	(4.2)	213	(2.7)	3.7	1.9	6.3	49.6	(1.3)	(1.0)	(4.5)	3.2	3.4	291
1912	207	(4.2)	211	(2.7)	3.8	1.8	6.0	47.8	(1.3)	(1.0)	(4.5)	3.3	3.3	286
1913	205	(4.2)	209	(2.7)	3.9	1.6	6.7	45.9	(1.3)	(1.0)	(4.4)	3.1	3.3	283
1914	203	(4.3)	207	(2.8)	3.9	1.5	7.0	45.0	(1.3)	(1.0)	(4.4)	3.4	3.2	280
1915	201	(4.3)	205	(2.8)	4.0	1.4	7.0	44.3	(1.4)	(1.0)	(4.0)	3.6	3.2	278
1916	200	(4.4)	204	(2.8)	4.1	1.3	6.9	45.1	(1.4)	(1.0)	(3.7)	3.6	3.2	277
1917	187	(4.4)	191	(2.8)	3.6	1.2	9.4	46.5	(1.4)	(1.0)	(3.4)	4.6	3.4	268
1918	175	(4.4)	179	(2.7)	2.3	1.2	10.2	49.7	(1.5)	(1.0)	(3.0)	5.2	3.8	260
1919	188	(4.5)	192	(2.9)	2.7	1.1	10.3	35.4	(1.5)	1.6	2.7	5.5	3.7	259
1920	174	(4.6)	179	(3.0)	3.2	.9	6.2	35.2	(1.5)	1.6	(2.6)	5.7	3.1	242
1921	162	(4.7)	167	(3.0)	2.5	.8	7.0	34.4	(1.6)	1.7	(2.5)	5.8	3.0	229
1922	176	(4.3)	180	(3.1)	2.8	.7	4.6	36.4	(1.6)	1.9	(2.4)	5.8	2.8	242
1923	176	(4.1)	180	(3.2)	2.7	.6	5.2	35.8	(1.7)	1.6	(2.3)	5.4	2.9	241
1924	176	(3.9)	180	(3.3)	2.6	.6	5.2	32.4	(1.8)	1.7	(2.2)	5.6	3.4	239
1925	176	3.6	180	(3.3)	2.8	.6	5.4	29.4	1.8	1.5	(2.1)	4.5	4.0	235
1926	178	4.3	182	(3.3)	2.9	.5	5.2	28.9	2.1	1.6	(2.0)	5.2	4.1	238
1927	177	3.9	181	(3.3)	2.9	.5	5.6	28.8	2.4	1.6	(1.9)	6.5	4.4	239
1928	175	4.3	179	(3.2)	2.8	.5	6.2	29.9	2.8	1.6	(1.8)	5.8	5.2	239
1929	172	4.9	177	(3.2)	2.8	.4	5.8	30.5	3.1	1.7	(1.7)	5.2	4.9	236
1930	167	4.4	171	(3.2)	2.7	.4	5.3	28.3	3.0	1.5	(1.7)	6.0	5.4	228
1931	164	4.7	169	3.2	2.6	.4	5.8	26.6	3.0	1.3	(1.6)	6.4	5.8	226
1932	166	3.9	170	3.1	2.7	.3	5.3	26.5	2.7	1.1	(1.5)	5.7	4.3	223
1933	157	4.6	162	2.6	2.9	.3	6.1	25.7	2.5	1.4	(1.5)	5.0	2.8	213
1934	153	4.3	157	3.0	2.6	.3	4.4	25.3	2.0	1.4	(1.4)	4.5	2.2	204
1935	154	4.4	158	3.1	2.5	.3	5.7	24.7	1.4	1.2	(1.3)	4.0	1.6	204
1936	158	4.6	163	3.3	2.3	.3	5.3	24.2	1.5	1.4	(1.3)	3.9	1.5	208
1937	155	3.7	159	3.4	2.1	.3	6.1	22.8	1.6	1.3	(1.2)	3.8	1.4	203
1938	155	4.6	160	3.4	2.1	.3	6.1	22.1	1.7	1.3	1.5	3.8	1.3	204
1939	153	5.0	158	3.4	2.3	.3	5.6	21.7	1.9	1.4	1.6	3.9	1.1	201
1940	150	4.7	155	3.3	2.4	.3	5.9	21.8	1.9	1.3	1.7	4.0	1.1	199
1941	150	5.5	156	3.3	2.2	.2	5.9	20.6	2.3	1.5	1.9	4.0	1.3	199
1942	151	6.3	157	3.3	2.5	.2	5.3	19.8	2.5	1.7	2.0	4.8	1.5	201
1943	156	7.0	163	3.3	3.1	.2	5.7	20.5	2.5	1.8	2.1	4.1	1.8	208
1944	143	5.9	149	3.2	2.6	.1	5.4	19.2	2.5	1.4	2.4	3.2	1.5	190
1945	153	7.6	161	3.2	2.4	.1	4.9	17.6	2.1	1.9	2.6	3.6	1.5	201
1946	150	6.2	156	3.2	1.8	.1	4.0	15.2	1.9	1.8	2.8	3.2	2.0	192
1947	132	6.9	139	3.3	1.4	.1	4.7	13.1	1.4	1.9	2.9	3.4	1.9	173
1948	131	6.1	137	3.2	1.4	.1	4.9	12.8	1.5	1.7	2.8	3.3	1.5	170
1949	130	6.7	136	3.2	1.5	.1	5.0	12.7	1.5	1.8	2.7	3.3	1.5	169
1950	126	6.7	133	3.1	1.5	.1	5.1	11.8	1.5	1.9	2.6	3.3	1.4	167
1951	126	6.8	133	3.1	1.5	.1	5.8	10.3	1.6	1.9	2.6	3.3	1.4	165
1952	124	6.8	131	3.0	1.5	.1	5.3	10.4	1.6	1.8	2.5	3.3	1.3	162
1953	123	4.8	128	3.0	1.5	.1	5.4	9.8	1.6	1.8	2.4	3.3	1.2	158
1954	119	4.9	126	2.9	1.4	.1	5.3	9.3	1.7	1.8	2.4	3.2	1.1	155
1955	122	1.4	123	2.9	1.4	.1	5.5	8.7	1.7	2.0	2.5	3.3	1.0	152
1956	118	4.0	121	2.8	1.3	.1	5.8	8.4	1.7	2.0	2.7	3.3	1.0	150
1957	114	4.6	119	2.8	1.2	.1	5.7	8.0	1.7	1.9	2.8	3.4	1.0	148
1958	116	4.6	121	2.8	1.2	.1	5.6	7.6	1.8	1.9	3.0	3.5	1.0	149
1959	116	4.3	120	2.7	1.2	.1	5.6	7.5	1.8	1.9	3.0	3.5	1.0	148
1960	113	5.4	118	2.7	1.2	.1	5.1	7.1	1.8	1.8	3.0	3.5	1.0	147
1961	113	4.6	118	2.7	1.1	.1	5.1	7.1	1.8	1.8	3.0	3.5	1.0	146
1962	111	4.7	115	2.6	1.1	.1	5.1	7.0	1.8	1.8	3.0	3.5	1.0	144
1963 9/	110	4.6	116	2.6	1.1	.1	4.7	6.9	1.8	1.8	3.0	3.5	1.0	144

1/ Consumption of most items is measured at the processing level. Excludes quantities used in alcoholic beverages. Civilian consumption only, beginning 1941. Data in parentheses are approximations. 2/ Semolina and durum flour in products such as macaroni, spaghetti, and noodles. 3/ Estimated on basis of data in Census of Manufactures plus an allowance for grind for farm home use. 4/ Milled basis. Rice consumption for year beginning August previous to year stated. Includes some table rice used by brewers prior to August 1934. 5/ See table 27 for data on corn sugar and corn sirup. 6/ Based on census data. In recent years approximately 50 percent of cornmeal was degermed. 7/ Principally oatmeal but includes an allowance for ready-to-eat oat cereals and infant foods. 8/ Barley food products expressed in terms of malt equivalent. Includes malt, pearl barley, and barley meal (in 1909-19). 9/ Preliminary.

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Per capita consumption is not estimated for most final cereal and bakery products, such as crackers, bread, rolls, cookies, and macaroni products. Most end products use a variety of cereals as well as other primary ingredients; their estimation would accordingly involve much duplication of other foods. But some of the food uses of corn, oats, and barley are measured in terms of production of final manufactured products, such as breakfast foods. They are converted to a meal- or flour-equivalent basis for comparability and to eliminate measurement of other primary food products. Corn used for corn sugar and corn sirup is excluded; these products are reported with other sweeteners. Grain products used for distilled spirits and alcoholic beverages are excluded from food use since these beverages are defined as nonfoods.

Sugars and Other Sweeteners

The derivation of cane and beet sugar consumption differs in concept from that of most other foods (table 27). Consumption represents distribution for that purpose rather than residual disappearance. A balancing item in the supply and utilization table makes up for any discrepancy between total supply and known use. Consumption is measured in terms of raw sugar, but is converted to a refined basis which is considered the primary level. No loss is assumed between the refined basis and sale at retail. Before sale at retail, most sugars are used as ingredients in the preparation of such foods as bakery products, sweetened condensed milk, canned fruits, soft drinks, jams and jellies, and confectionery products (see tabulation on p. 13).

Estimates of per capita consumption of processed fruits and vegetables and sweetened condensed milk are on a product-weight basis, which includes the sweeteners used. Since consumption of sugars and other sweeteners is measured at primary levels, these estimates include amounts going into such processed products. For purposes of totaling consumption of all foods, duplication is removed. The type of sweeteners used in each processed food is not possible to estimate, but the total of all sweeteners involved in the duplication is given in table 27. This total sugar "measured elsewhere" is subtracted from total consumption in deriving the remaining consumption of sugars and other sweeteners that is included in the all-food summary (table 5).

No estimate is made of the consumption of noncaloric sweeteners.

No supply-utilization tables are presented for the following sweeteners. Consumption estimates in table 27 were based primarily on production and foreign trade data.

Military use of sugars and other sweeteners is not separable from total consumption because of the many products purchased directly or indirectly from civilian supplies. Sugar in candy, soft drinks, and confectioneries purchased through post exchanges are not included in military procurement data. As a result, no attempt is made to exclude military consumption except during 1941-46; consumption of sugars and other sweeteners currently is computed as an average per capita for the entire population.

Honey

Rough approximations of honey production were made by BAE for 1919-38 on the basis of trade information. For 1939, much more adequate information was assembled from census data, State license inspection records, survey records, and leading producers and handlers of honey. On the basis of information from beekeepers on numbers of colonies on hand at the beginning of the season and the quantity of honey produced, reports have been published for each year since 1939. SRS has prepared yearly data on stocks since 1942 from beekeepers' reports. Stocks were reported as of November 15 in 1942 and 1943, and as of December 15 in later years. Data on imports, shipments into the United States, and exports of honey are published by the Department of Commerce.

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Table 27.--Sugars and sweeteners: Per capita consumption, 1909-63 1/

Year	Cane and beet sugar 2/	Corn sugar	Syrups					Edible cane molasses	Honey	All sugars and sweeteners 4/		
			Cane	Corn	Sorgo	Maple 3/	Refiners			Measured elsewhere 5/	Not measured elsewhere	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	73.7	1.1	(2.5)	4.9	(2.6)	(.5)	(0.2)	(1.4)	(1.2)	1.9	85.6	87.5
1910	75.4	1.1	2.7	5.4	2.1	(.5)	(.2)	1.3	(1.2)	2.0	87.9	89.9
1911	77.4	1.1	2.9	5.2	2.2	(.5)	(.2)	1.6	(1.2)	2.1	90.2	92.3
1912	75.4	1.2	3.0	5.3	1.9	(.5)	(.2)	1.6	(1.2)	2.2	88.6	90.8
1913	81.5	1.1	3.1	5.2	1.8	(.5)	(.2)	.8	(1.2)	2.2	93.0	95.2
1914	81.0	1.1	3.1	5.1	1.5	(.5)	(.2)	1.0	(1.2)	2.3	92.3	94.6
1915	77.0	1.2	2.8	5.7	1.6	(.5)	(.2)	.7	(1.2)	2.6	88.9	91.5
1916	70.8	1.4	2.8	6.2	1.7	.5	(.2)	.7	(1.2)	2.9	88.6	91.5
1917	78.6	1.4	3.1	6.0	1.5	.5	(.2)	1.3	(1.2)	3.2	90.0	93.2
1918	74.9	.8	3.2	7.0	4.1	.6	(.2)	1.9	(1.2)	3.3	90.9	94.2
1919	65.9	.7	3.6	11.4	3.7	.5	(7/)	1.3	1.5	2.9	105.9	108.8
1920	65.5	.5	2.5	10.1	3.4	.5	(7/)	.7	1.1	2.0	102.3	104.3
1921	67.3	1.0	2.4	6.6	3.5	.3	(7/)	.7	1.2	2.0	101.2	103.2
1922	114.4	2.0	2.4	7.6	3.0	.4	(.2)	.8	1.3	2.3	119.6	122.1
1923	90.9	3.0	2.3	7.5	1.9	.4	(7/)	.6	1.4	2.3	106.1	108.4
1924	94.5	4.1	1.9	8.7	1.5	.4	(.1)	.8	1.4	2.3	116.1	118.4
1925	104.3	3.4	1.8	7.7	1.2	.3	.4	.6	1.5	2.9	118.6	121.7
1926	108.5	5.0	1.9	8.6	1.1	.4	(.4)	.6	1.6	3.1	120.6	123.1
1927	102.4	6.4	1.8	7.7	1.4	.4	.3	.4	1.6	3.0	119.2	122.2
1928	103.7	6.8	1.9	7.9	1.2	.4	(.3)	.4	1.7	3.3	121.1	124.4
1929	96.4	6.2	1.7	7.8	1.6	.4	.1	8/1.0	1.7	2.9	113.4	116.8
1930	100.6	5.8	1.8	7.4	.8	.6	(.6)	8/1.2	1.4	3.6	125.7	128.7
1931	100.9	5.9	1.6	6.7	.7	.2	.2	8/1.1	1.3	2.6	115.3	117.9
1932	94.7	5.3	1.4	6.8	1.7	.3	(.3)	8/1.3	1.4	2.4	110.0	112.4
1933	89.7	5.4	1.7	7.3	1.4	.2	.3	8/1.5	1.2	2.5	111.9	114.4
1934	94.7	4.8	1.9	7.5	1.3	.3	(.6)	8/1.1	1.2	2.6	111.2	113.8
1935	97.8	5.4	2.1	9.1	1.7	.4	.4	.7	1.2	3.0	111.6	114.6
1936	97.1	6.4	2.3	8.4	1.5	.3	(.8)	.7	1.4	3.3	111.5	114.8
1937	94.4	5.7	2.4	7.8	1.4	.3	.3	.7	1.2	3.0	110.1	113.1
1938	97.4	5.7	2.1	7.7	1.1	.3	(.7)	.9	1.5	3.3	107.4	111.2
1939	102.8	6.0	2.0	8.0	1.2	.2	.2	.9	1.4	3.5	113.5	116.6
1940	91.7	5.1	2.1	7.4	.9	.2	(.4)	.8	1.3	4.0	108.1	112.1
1941	100.0	4.2	1.1	6.9	.7	.2	(.3)	.7	1.7	3.7	117.4	121.1
1942	102.3	4.7	1.3	10.1	.9	.4	(.6)	1.1	1.5	3.8	122.8	126.6
1943	97.7	4.1	1.6	12.0	1.0	.1	1.1	.9	1.7	4.1	108.5	112.6
1944	97.6	5.1	1.7	11.9	1.1	.3	1.2	1.1	1.9	3.1	108.8	111.9
1945	79.4	5.1	1.9	12.1	1.0	.2	1.2	.7	1.8	3.9	95.2	98.8
1946	79.3	5.5	2.2	11.4	.7	.1	1.2	1.3	1.8	4.7	93.3	98.3
1947	84.2	4.7	1.2	12.3	.7	.1	(.6)	1.4	1.4	4.8	113.7	118.5
1948	94.2	4.1	1.4	9.7	.7	.1	.2	.5	1.3	4.4	108.4	112.8
1949	91.8	4.1	1.1	9.9	.8	.1	.4	.8	1.5	4.4	108.5	112.9
1950	100.9	4.1	.7	9.3	.7	.1	.3	.8	1.9	4.7	113.1	117.8
1951	96.1	4.1	.7	9.6	.7	.1	.4	.8	1.7	4.8	108.2	113.0
1952	97.1	4.1	.4	9.7	.2	.1	.7	1.0	1.7	4.7	108.4	113.1
1953	97.0	4.1	.4	9.8	.2	.1	.4	.8	1.4	4.5	108.1	112.6
1954	96.0	3.7	.3	9.8	.2	.1	.3	.8	1.5	4.8	106.8	110.8
1955	96.9	3.7	.3	9.8	.2	.1	.4	.8	1.4	5.4	106.3	111.7
1956	97.3	3.5	.3	9.8	.2	.1	.2	.8	1.4	5.1	107.7	112.8
1957	96.0	3.6	.3	9.8	.2	.1	.2	.8	1.4	5.1	104.3	109.4
1958	95.1	3.7	.2	9.9	.2	.1	.3	.8	1.4	5.2	107.4	112.6
1959	91.4	3.4	.2	9.5	.1	.1	.2	.8	1.4	4.4	107.8	112.7
1960	97.4	3.4	.2	10.2	.1	.1	.2	.8	1.5	5.3	108.8	114.1
1961	97.1	3.7	.2	10.9	.1	.1	.2	.8	1.4	5.3	109.1	114.4
1962	97.1	3.4	.2	11.0	9/	.2	.2	.8	1.5	5.3	109.8	115.1
1963 p/	93.1	4.5	.2	10.4	9/	.2	.2	.2	1.5	5.4	110.0	115.4

1/ Military takings have not been subtracted from total supply, so per capita estimates are for the total population except for cane and beet sugar in 1941-45, which represent civilian consumption only. Data in parentheses are approximations. 2/ Refined, measured at approximately wholesale level of distribution. 3/ Includes syrup equivalent of maple sugar. 4/ Excludes noncaloric sweeteners. 5/ Included as product weight of processed fruits and vegetables and sweetened condensed milk. Duplication with frozen dairy desserts avoided in the dairy statistics. 6/ Not available. 7/ Less than 0.05 pound. 8/ Includes a large, but indeterminate, proportion of liquid sugar. p/ Preliminary.

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Sugarcane Sirup

Sugarcane sirup is produced from sugarcane grown in the Southern States. Except for Louisiana, cane sirup is produced mainly in small sirup mills located on farms producing the cane. In Louisiana, most of the sirup is produced by large-scale, factory-type mills. In recent years, over 90 percent of the production has been sold and the rest used in the home by producers. Consumption of pure sirup is largely confined to the producing area; sirup blends containing some cane sirup are more widely marketed for industrial and home use. The crop is harvested and the sirup made in late fall.

SRS has a production series on sugarcane sirup that goes back to 1909. The reporting schedule was begun in 1917, and production statistics were projected back to 1909. Production figures are based on yield data obtained from a small sample of producers--about 5 percent. Census data in enumeration years were used as checks. No data on stocks are available.

Sorgo Sirup

Like sugarcane sirup, sorgo sirup is produced in late fall in small mills that are usually located on farms producing sorghum. It is produced in areas north of 33° latitude, which is about on a line with Dallas, Tex., and Atlanta, Ga. Available statistics are similar to those on sugarcane sirup. By 1960, production had dwindled to a negligible amount and reporting was discontinued.

Edible Sugarcane Molasses

SRS has a production series on edible sugarcane molasses beginning in 1909. This series is based on production records of cane-sugar mills, most of which are in Louisiana. Data on imports and exports have been available from the Department of Commerce only since 1929. Consumption figures for 1909 through 1928 probably are understated because of lack of information on imports, although imports were probably not large. No data on stocks are available for molasses.

Maple Sugar and Sirup

The production series of SRS on maple sugar and sirup begins with 1916. Production estimates are based on information supplied by a small sample of producers. From 1916-53, production of maple sugar was estimated separately from maple sirup. By 1954, little maple sugar was produced. Beginning with 1954, estimated sirup production includes sirup later processed into sugar. Census data are used as a check. Up to 1917, import data were kept by the Department of Commerce on a fiscal-year basis. Through 1922, import data on maple sugar and maple sirup were combined. No data on stocks are available on either maple sugar or maple sirup.

Refiners' Sirup

Refiners' sirup production has been available for Census of Manufactures enumeration years since 1925. From 1943-46, production data were reported by refiners. During the war, production of refiners' sirup was greatly expanded. Starting with 1948, complete data have been collected by the Sugar Division of USDA. In other years, estimates of production were made by interpolation of census data. Data on exports are somewhat overstated, for they include sirups other than refiners' sirups. Consumption figures are correspondingly understated. No data on stocks are available.

Coffee, Tea, and Cocoa

Most of the coffee consumed in this country is imported as green beans. The green-bean basis is the primary level. Beans are adjusted to a roasted or soluble (instant coffee) basis in deriving retail weights (table 28). In keeping with industry practice, the factor used to convert beans to soluble coffee was increased in computing consumption for 1962 and 1963. Slight adjustments in coffee consumption data were made for 1948-62 to exclude stocks of roasted coffee for which data are no longer reported.

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Table 28.--Coffee, tea, and cocoa: Per capita consumption, 1909-63 1/

Year	Coffee						Tea	Cocoa	
	Instant 2/		Regular		Total				
	Green bean equivalent	Retail weight 3/	Green bean equivalent	Retail weight 4/	Green bean equivalent	Retail weight		Bean equivalent	Retail weight 5/
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	---	---	---	7.7	---	7.7	1.1	1.3	1.0
1910	---	---	9.2	7.7	9.2	7.7	1.0	1.2	.9
1911	---	---	8.3	7.0	8.3	7.0	1.1	1.4	1.0
1912	---	---	10.8	9.1	10.8	9.1	1.0	1.6	1.2
1913	---	---	9.0	7.6	9.0	7.6	.9	1.6	1.2
1914	---	---	9.2	7.7	9.2	7.7	.9	1.7	1.3
1915	---	---	10.6	8.9	10.6	8.9	1.0	1.9	1.4
1916	---	---	11.5	9.7	11.5	9.7	1.0	2.3	1.7
1917	---	---	12.1	10.2	12.1	10.2	1.2	3.6	2.7
1918	---	---	10.0	8.4	10.0	8.4	1.2	3.3	2.4
1919	---	---	11.8	9.9	11.8	9.9	.6	3.5	2.6
1920	---	---	11.7	9.8	11.7	9.8	.8	2.9	2.1
1921	---	---	12.0	10.1	12.0	10.1	.7	2.7	2.0
1922	---	---	11.8	9.9	11.8	9.9	.9	3.0	2.2
1923	---	---	12.6	10.6	12.6	10.6	.9	3.5	2.6
1924	---	---	12.2	10.2	12.2	10.2	.8	3.3	2.4
1925	---	---	10.6	8.9	10.6	8.9	.9	3.1	2.5
1926	---	---	12.4	10.4	12.4	10.4	.8	3.6	2.9
1927	---	---	12.2	10.2	12.2	10.2	.7	3.3	2.6
1928	---	---	11.9	10.0	11.9	10.0	.7	2.9	2.3
1929	---	---	12.2	10.2	12.2	10.2	.7	4.0	3.2
1930	---	---	12.5	10.5	12.5	10.5	.7	3.0	2.4
1931	---	---	13.0	10.9	13.0	10.9	.7	3.4	2.7
1932	---	---	12.4	10.4	12.4	10.4	.8	3.2	2.6
1933	---	---	12.8	10.8	12.8	10.8	.8	3.5	2.8
1934	---	---	12.3	10.3	12.3	10.3	.6	3.4	2.7
1935	---	---	13.4	11.3	13.4	11.3	.6	4.7	3.8
1936	---	---	13.7	11.5	13.7	11.5	.6	5.0	4.0
1937	---	---	13.3	11.2	13.3	11.2	.7	3.9	3.1
1938	---	---	14.9	12.5	14.9	12.5	.7	3.5	2.8
1939	---	---	14.9	12.5	14.9	12.5	.7	4.6	3.7
1940	---	---	15.5	13.0	15.5	13.0	.7	4.6	3.7
1941	---	---	15.9	13.4	15.9	13.4	.8	4.7	3.8
1942	---	---	13.6	11.4	13.6	11.4	.5	4.0	3.2
1943	---	---	12.9	10.8	12.9	10.8	.5	3.1	2.5
1944	---	---	15.8	13.3	15.8	13.3	.5	3.1	2.5
1945	---	---	16.4	13.8	16.4	13.8	.5	3.3	2.6
1946	---	---	20.1	16.9	20.1	16.9	.6	4.1	3.3
1947	---	---	17.4	14.6	17.4	14.6	.6	4.2	3.4
1948	---	---	18.4	15.5	18.4	15.5	.6	3.7	3.0
1949	---	---	18.7	15.7	18.7	15.7	.6	4.0	3.2
1950	---	---	16.1	13.5	16.1	13.5	.6	4.4	3.5
1951	0.7	0.2	15.9	13.4	16.6	13.6	.7	3.8	3.0
1952	.8	.2	16.1	13.5	16.9	13.7	.6	3.8	3.0
1953	1.1	.3	15.8	13.3	16.9	13.6	.7	3.8	3.0
1954	1.7	.5	13.0	10.9	14.7	11.4	.7	3.3	2.6
1955	1.9	.5	13.4	11.3	15.3	11.8	.6	3.2	2.6
1956	2.5	.7	13.3	11.2	15.8	11.9	.6	3.7	3.0
1957	2.6	.7	13.1	11.0	15.7	11.7	.6	3.8	3.0
1958	2.7	.7	12.8	10.8	15.5	11.5	.6	3.3	2.6
1959	2.8	.8	13.1	11.0	15.9	11.8	.6	3.5	2.8
1960	2.9	.8	12.9	10.8	15.8	11.6	.6	3.6	2.9
1961	2.8	.8	13.0	10.9	15.8	11.7	.6	3.9	3.1
1962	2.8	.8	13.1	11.0	15.9	11.8	.7	3.8	3.0
1963 6/	2.7	.9	13.0	10.9	15.7	11.8	.7	3.9	3.1

1/ Civilian only, 1941 to date.
2/ Estimates for 1951-53 computed from retail sales of instant coffee reported in Annual Coffee Statistics, 1962, Pan American Coffee Bureau; beginning 1954 data based on quantity processed for soluble use, reported by U. S. Department of Commerce, minus net exports of soluble coffee.
3/ Through 1961, computed by multiplying green bean equivalent by 0.278, 1962 by 0.303, and 1963 by 0.333.
4/ Computed by multiplying green bean equivalent by 0.84.
5/ Chocolate liquor (53 percent fat content); equivalent to 73.7 percent of cocoa bean from 1909-1924. A factor of 0.80 is used from 1925-1963.
6/ Preliminary.

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Tea consumption is reported on a leaf-equivalent basis, with no marketing loss assumed between measurement as imported and sale at retail (table 28). Instant tea consumption is not estimated separately.

Cocoa consumption is reported on a bean-equivalent basis as the primary level (table 28). Imports of cocoa powder, cocoa butter, and other cocoa products are converted to a bean-equivalent basis, using separate factors for powder and butter rather than a composite factor applied only to powder imports (which imputed the importation of cocoa butter) used previously. This revision affects cocoa consumption data since 1925, but only small changes occurred prior to 1950. A large change in relative importance of products imported in recent years made necessary the change in method of product conversion. Cocoa beans are converted to a chocolate liquor basis as the retail-weight equivalent. Chocolate liquor is processed into a wide variety of confectionery and other final consumer products.

Tree Nuts, Coconut, and Peanuts

Per capita consumption of tree nuts, peanuts, and dessicated coconut is given in table 29. Coconut oil is classed as an inedible oil, but food use of coconut oil is included with other fats and oils in table 11. Peanuts used for oil are omitted from peanut consumption but included with fats and oils. Production of peanuts is reported in terms of farmers' stock. In computing consumption, however, peanuts are converted to shelled equivalent, based on annual shelling outturns. Estimated consumption includes commercially cleaned and shelled peanuts, plus quantities consumed on farms where grown or sold locally.

Almonds, filberts, pecans, and walnuts are the most important domestic tree nuts. Hawaiian Macadamia nuts are included with domestic supplies since 1960. One-fourth to one-third of total U.S. consumption of tree nuts is imported. Imported items consist largely of tree nuts not grown commercially in the United States, such as pignolias, pistachios, Brazil nuts, and cashews.

Spices and Herbs

Most of the spices and herbs consumed in this country are imported. U. S. commercial production is reported only for mustard seed and dried chili peppers. Per capita consumption is listed separately in table 30 only for pepper and mustard seed, but total imports for consumption are listed by item for 22 other products in table 87. Consumption estimates involve the subtraction of exports and shipments to Territories from total domestic production and net imports for consumption. No information is available on stocks or on military takings. Consumption estimates are averages for the entire population rather than civilian alone. Data are not available prior to 1918.

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Table 29.--Tree nuts, coconuts, and peanuts: Per capita consumption, crop years, 1909-63 1/

Year	Tree nuts (shelled basis)						Coconut (dessicated) 3/	Peanuts (shelled basis)
	Almonds	Filberts	Pecans	Walnuts	Other 2/	Total		
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1909	0.15	0.06	0.01	0.31	0.26	0.8	(0.06)	2.4
1910	.17	.07	.01	.30	.19	.7	(.06)	2.5
1911	.15	.05	.01	.31	.26	.8	.06	2.3
1912	.17	.06	.01	.28	.16	.7	.07	2.3
1913	.16	.07	.01	.31	.29	.8	.10	2.5
1914	.16	.07	.01	.28	.19	.7	.06	2.5
1915	.17	.05	4/	.35	.21	.8	.08	2.8
1916	.22	.07	.01	.35	.13	.8	.09	2.8
1917	.23	.10	4/	.26	.18	.8	.20	4.2
1918	.29	.06	4/	.25	.16	.8	.13	2.8
1919	.33	.15	.24	.49	.23	1.4	.38	4.6
1920	.20	.07	.04	.31	.36	1.0	.19	3.0
1921	.31	.11	.16	.49	.36	1.4	.41	2.7
1922	.29	.11	.05	.44	.34	1.2	.29	2.7
1923	.30	.12	.19	.42	.39	1.4	.40	3.2
1924	.26	.07	.13	.48	.35	1.3	.38	3.5
1925	.23	.10	.17	.51	.29	1.3	.44	3.6
1926	.26	.08	.30	.37	.35	1.4	.44	3.4
1927	.24	.10	.11	.51	.14	1.1	.52	3.9
1928	.26	.09	.21	.38	.30	1.2	.47	3.8
1929	.20	.06	.16	.44	.23	1.1	.44	4.1
1930	.21	.06	.17	.33	.29	1.1	.33	3.2
1931	.17	.04	.26	.32	.33	1.1	.33	4.4
1932	.14	.05	.20	.36	.27	1.0	.29	4.1
1933	.12	.03	.23	.26	.25	.9	.39	3.6
1934	.11	.03	.17	.33	.35	1.0	.51	3.3
1935	.17	.04	.36	.34	.44	1.4	.58	4.0
1936	.16	.05	.17	.28	.47	1.1	.64	4.6
1937	.19	.03	.30	.38	.46	1.4	.58	4.4
1938	.14	03	.21	.32	.49	1.2	.61	4.3
1939	.21	.05	.27	.38	.46	1.4	.69	4.4
1940	.12	.03	.34	.32	.54	1.4	.78	5.0
1941	.07	.04	.34	.44	.40	1.3	.62	4.8
1942	.22	.03	.23	.35	.14	1.0	.01	6.2
1943	.23	.05	.38	.37	.07	1.1	.01	5.7
1944	.36	.10	.41	.41	.16	1.4	.03	6.0
1945	.34	.10	.37	.38	.24	1.4	.06	6.6
1946	.36	.13	.20	.38	.40	1.5	.27	5.3
1947	.30	.08	.31	.33	.45	1.5	.72	4.5
1948	.29	.09	.44	.36	.49	1.7	.84	4.6
1949	.30	.10	.31	.49	.53	1.7	.84	4.1
1950	.33	.06	.32	.37	.57	1.7	.89	4.5
1951	.30	.08	.39	.43	.49	1.7	.54	4.6
1952	.26	.09	.37	.46	.50	1.7	.64	4.4
1953	.24	.06	.51	.33	.50	1.6	.62	4.4
1954	.22	.08	.22	.39	.58	1.5	.64	4.2
1955	.21	.07	.34	.43	.59	1.6	.64	4.1
1956	.27	.04	.40	.35	.49	1.6	.67	4.4
1957	.19	.09	.30	.32	.59	1.5	.63	4.5
1958	.17	.07	.38	.39	.57	1.6	.54	4.5
1959	.37	.08	.31	.30	.52	1.6	.67	4.7
1960	.23	.07	.39	.35	.54	1.6	.61	4.9
1961	.32	.07	.51	.30	.54	1.7	.64	4.9
1962	.20	.05	.15	.35	.57	1.3	.66	4.9
1963 5/	.22	.06	.57	.35	.57	1.8	.7	5.0

1/ Crop year beginning July of year indicated for tree nuts; peanuts on September-August year. Civilian per capita consumption of peanuts beginning 1941 and of tree nuts in period 1942-46.

2/ Includes the following nuts: Brazil, pignolia, pistache, chestnuts, cashews, miscellaneous tree nuts and, beginning 1960, Macadamias.

3/ Based on imports beginning July 1 of year indicated.

4/ Less than 0.005 pound.

5/ Preliminary.

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Table 30.--Spices and herbs: Per capita consumption, 1918-63

Year	Pepper 1/	Mustard seed 2/	Other 3/	Total
	Pounds	Pounds	Pounds	Pounds
1918	0.3	0.1	0.4	0.8
1919	.2	.1	.4	.7
1920	.2	.1	.5	.8
1921	.3	.2	.4	.9
1922	.3	.2	.5	1.0
1923	.2	.1	.6	.9
1924	.2	.2	.4	.8
1925	.3	.2	.4	.9
1926	.2	.2	.4	.8
1927	.2	.3	.4	.9
1928	.2	.2	.4	.8
1929	.2	.2	.4	.8
1930	.2	.2	.4	.8
1931	.3	.1	.4	.8
1932	.3	.1	.4	.8
1933	.3	.2	.4	.9
1934	.3	.2	.4	.9
1935	.3	.1	.5	.9
1936	.6	.2	.5	1.3
1937	.3	.2	.4	.9
1938	.4	.1	.4	.9
1939	.5	.2	.5	1.2
1940	.1	.1	.5	.7
1941	.4	.2	.7	1.3
1942	4/	.5	.5	1.0
1943	4/	.3	.2	.5
1944	4/	.2	.3	.5
1945	4/	.2	.5	.7
1946	.1	.2	.5	.8
1947	.3	.3	.3	.9
1948	.2	.2	.4	.8
1949	.2	.2	.4	.8
1950	.2	.2	.5	.9
1951	.1	.3	.5	.9
1952	.2	.3	.4	.9
1953	.2	.2	.5	.9
1954	.2	.2	.5	.9
1955	.2	.3	.4	.9
1956	.2	.5	.3	1.0
1957	.2	.3	.3	.8
1958	.2	.2	.4	.8
1959	.2	.2	.5	.9
1960	.2	.3	.4	.9
1961	.2	.4	.4	1.0
1962	.2	.2	.5	.9
1963 5/	.2	.3	.5	1.0

1/ Based upon imports for consumption, adjusted for exports of foreign unground pepper from mid-1930, minus domestic exports and shipments to the Territories of unground pepper, when reported. 2/ Based upon imports for consumption plus the production of the preceding year, adjusted for seed for planting. 3/ Based upon imports for consumption and production of dried chili peppers (capsicum) in California. 4/ Less than 0.05 pound. 5/ Preliminary.

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CHAPTER 4. QUARTERLY CONSUMPTION PER CAPITA

Quarterly food consumption estimates are available for certain food products for recent years. The method of estimation is similar to that for annual consumption, but data and measurement problems are greater. Quarterly estimates are given in this chapter for many of the animal products: Meats, poultry, eggs, and fats and oils. Similar data could be calculated for dairy products but are not published because the magnitude of measurement errors may outweigh the variations in quarterly consumption rates. The necessary stock data are not available for most crop products.

Most of the production and foreign trade data necessary for development of quarterly consumption estimates are available monthly or quarterly. The major problem barring more complete quarterly data is the estimation of stocks in various processed forms and marketing channels. The disappearance method of estimating food consumption implicitly assumes no change in stocks other than those reported. For annual estimates, this assumption often is reasonable because largely compensating seasonal changes may occur in stock levels within a year. However, this assumption becomes suspect when "pipeline" stocks change, as they often do seasonally and in response to changing prices. As a result, development of quarterly data by the disappearance method demands more complete and accurate stock data than do estimates of annual data.

Quarterly consumption data are generally consistent with those described in chapter 3 (tables 31-34). They are on a 48-State basis through 1959 and a 50-State basis since 1960. Mid-quarter population data are used in deriving quarterly per capita consumption data. Since July 1 population is used in computing annual data, slight variations may arise between annual consumption and the total of the corresponding four quarters.

Quarterly consumption is available for broilers but not for farm chickens. Similarly, quarterly data are available for shell eggs but not for those used in processed products. Fats and oils quarterly consumption data are computed for total rather than civilian population. Data in the quarterly tables begin with 1955 or as soon thereafter as possible.

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Table 31.--Meats: Quarterly civilian consumption per capita, 1955-63 1/

Item and year	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Annual total
	Pounds	Pounds	Pounds	Pounds	Pounds
Beef					
1955	19.6	20.3	21.5	20.6	82.0
1956	21.3	21.5	21.3	21.3	85.4
1957	21.5	20.8	21.6	20.7	84.6
1958	19.5	19.8	21.0	20.2	80.5
1959	19.1	20.4	21.3	20.6	81.4
1960	20.8	20.9	22.4	20.9	85.0
1961	20.9	22.2	22.7	22.0	87.8
1962	22.0	22.1	22.9	21.8	88.8
1963 2/	22.4	23.4	24.4	24.0	94.2
Veal					
1955	2.2	2.2	2.6	2.4	9.4
1956	2.2	2.2	2.6	2.5	9.5
1957	2.1	2.2	2.4	2.1	8.8
1958	1.8	1.6	1.7	1.6	6.7
1959	1.4	1.4	1.4	1.5	5.7
1960	1.4	1.4	1.7	1.6	6.1
1961	1.4	1.4	1.4	1.4	5.6
1962	1.4	1.3	1.4	1.4	5.5
1963 2/	1.3	1.1	1.2	1.3	4.9
Lamb and mutton					
1955	1.2	1.2	1.1	1.1	4.6
1956	1.3	1.0	1.1	1.1	4.5
1957	1.2	1.0	1.0	1.0	4.2
1958	1.0	1.2	1.0	1.0	4.2
1959	1.3	1.2	1.1	1.2	4.8
1960	1.3	1.1	1.2	1.2	4.8
1961	1.3	1.4	1.2	1.2	5.1
1962	1.5	1.2	1.2	1.3	5.2
1963 2/	1.4	1.1	1.2	1.2	4.9
Pork					
1955	17.2	15.0	15.0	19.6	66.8
1956	18.6	15.6	15.1	18.0	67.3
1957	15.8	14.5	13.9	16.9	61.1
1958	15.0	14.1	14.2	16.9	60.2
1959	16.7	15.7	16.0	19.2	67.6
1960	17.9	15.6	15.1	16.7	64.9
1961	15.8	15.0	14.2	17.0	62.0
1962	16.3	15.4	14.5	17.4	63.6
1963 2/	16.4	15.9	15.1	17.9	65.3
Total meat					
1955	40.2	38.7	40.2	43.7	162.8
1956	43.4	40.3	40.1	42.9	166.7
1957	40.6	38.5	38.9	40.7	158.7
1958	37.3	36.7	37.9	39.7	151.6
1959	38.5	38.7	39.8	42.5	159.5
1960	41.0	39.0	40.4	40.4	160.8
1961	39.4	40.0	39.5	41.6	160.5
1962	41.2	40.0	40.0	41.9	163.1
1963 2/	41.5	41.5	41.9	44.4	169.3

1/ Carcass-weight basis. 2/ Preliminary.

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Table 32.--Poultry: Quarterly civilian consumption, per capita, 1960-63 1/

Year	Broilers					Farm chickens	Total chickens
	Jan.-Mar.	Apr.-June	June-Sept.	Oct.-Dec.	Annual total 2/		
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1960	5.1	6.2	6.5	5.5	23.4	4.7	28.1
1961	5.5	7.4	7.3	5.7	25.9	4.3	30.2
1962	5.6	7.0	6.8	6.3	25.6	4.4	30.0
1963 3/	6.1	7.1	7.4	6.4	27.0	3.9	30.9
	Turkey						
	Pounds	Pounds	Pounds	Pounds	Pounds		
1960	0.6	0.8	1.3	3.5	6.2		
1961	.6	1.0	1.7	4.1	7.4		
1962	.7	.9	1.5	3.9	7.0		
1963 3/	.5	.9	1.5	3.8	6.7		

1/ Ready-to-cook basis. 2/ Detail may not add exactly because of rounding. 3/ Preliminary.

Table 33.--Eggs: Quarterly civilian consumption per capita 1955-63

Year	Shell					Processed 2/	Total eggs
	Jan.-Mar.	Apr.-June	July-Sept.	Oct.-Dec.	Annual total 1/		
	Number	Number	Number	Number	Number	Number	Number
1955	90.0	84.2	81.9	90.3	346	25	371
1956	90.7	82.1	82.0	89.7	345	24	369
1957	87.9	81.5	80.0	85.5	335	27	362
1958	84.5	79.4	79.1	85.2	328	26	354
1959	83.5	77.0	76.3	81.7	319	33	352
1960	79.9	74.7	73.4	77.8	306	28	334
1961	75.5	71.7	72.1	75.5	296	30	326
1962	75.7	71.4	70.8	75.8	294	29	323
1963 3/	73.2	70.2	70.7	74.0	288	27	315

1/ Detail may not add exactly because of rounding and because the annual estimate is total disappearance divided by the July 1 population whereas quarterly estimates are based on quarterly or monthly population data. 2/ Shell egg equivalent. 3/ Preliminary.

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Table 34.--Fats and oils: Quarterly consumption per capita, 1955-63 1/

Item and year	January-March	April-June	July-September	October-December	Annual total 1/
	Lb.	Lb.	Lb.	Lb.	Lb.
Butter 2/					
1955	2.4	2.3	2.3	2.4	9.3
1956	2.3	2.3	2.2	2.3	9.0
1957	2.1	2.1	2.1	2.2	8.5
1958	2.0	2.2	2.0	2.2	8.4
1959	2.1	2.0	1.9	2.0	8.0
1960	1.9	1.8	1.9	2.0	7.6
1961	1.9	1.8	1.7	2.0	7.5
1962	1.9	1.9	1.6	2.0	7.4
1963 3/	1.9	1.8	1.5	1.9	7.0
Margarine 2/					
1955	2.2	2.0	1.7	2.1	8.0
1956	2.3	1.6	1.8	2.3	8.1
1957	2.1	2.0	2.0	2.3	8.5
1958	2.3	2.1	2.2	2.3	8.9
1959	2.4	2.1	2.1	2.5	9.1
1960	2.5	2.2	2.2	2.5	9.3
1961	2.5	2.2	2.2	2.5	9.3
1962	2.3	2.1	2.2	2.5	9.2
1963 3/	2.3	2.2	2.2	2.5	9.2
Lard 4/					
1955	2.6	2.3	2.3	2.7	9.9
1956	2.7	2.1	2.2	2.7	9.7
1957	2.4	2.1	2.1	2.7	9.3
1958	2.3	2.3	2.2	2.7	9.4
1959	2.0	2.1	2.0	2.5	8.7
1960	2.0	1.8	1.8	2.1	7.6
1961	1.7	2.0	1.8	2.1	7.6
1962	1.9	1.6	1.5	2.0	7.1
1963 3/	1.7	1.6	1.3	1.8	6.4
Shortening					
1955	3.0	3.1	2.6	2.9	11.6
1956	3.1	2.3	2.5	3.1	11.0
1957	2.4	2.5	2.7	2.8	10.5
1958	2.7	2.7	2.9	3.0	11.3
1959	3.3	3.0	3.1	3.2	12.6
1960	3.2	3.2	3.1	3.1	12.7
1961	3.4	3.0	3.1	3.4	12.8
1962	3.0	3.2	3.5	3.7	13.4
1963 3/	3.2	3.3	3.3	3.5	13.3
Other edible fats and oils 5/					
1955	2.3	2.8	2.6	2.7	10.4
1956	2.9	2.7	2.6	2.6	10.8
1957	2.5	3.0	2.8	2.5	10.8
1958	2.9	2.6	2.8	2.3	10.6
1959	3.0	3.3	2.5	2.5	11.2
1960	2.9	3.1	2.7	2.6	11.4
1961	2.9	2.8	3.3	2.4	11.1
1962	3.0	2.9	2.9	2.8	11.6
1963 3/	3.7	2.6	3.5	4.3	14.1
Total (fat content)					
1955	11.6	11.5	10.8	11.9	45.8
1956	12.5	10.3	10.5	11.9	45.2
1957	10.7	11.0	11.0	11.6	44.3
1958	11.4	11.0	11.3	11.6	45.3
1959	11.8	11.7	10.8	11.8	46.2
1960	11.5	11.3	10.9	11.6	45.2
1961	11.7	10.8	11.4	11.5	45.3
1962	11.3	10.9	11.0	12.3	45.5
1963 3/	11.9	10.6	11.1	13.1	46.7

1/ Average consumption of the total population including military. It differs slightly from annual per capita data for civilians only, shown elsewhere.
2/ Product weight basis.
3/ Preliminary.
4/ Excludes use in margarine, shortening, and nonfood products.
5/ Used in cooking and salad oils, salad dressing, mayonnaise, in bakery products, and for minor uses such as fish canning.

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CHAPTER 5. NUTRITIVE VALUE OF FOOD AVAILABLE FOR CONSUMPTION

Periodic estimates of the nutritive value of foods available for consumption provide a basis for determining trends in supplies of nutrients furnished by the Nation's food. The total number of calories and amounts of protein, fat, carbohydrate, three minerals, and five vitamins available for consumption per capita per day are shown in table 35. Tables 36 and 37 provide data on the food sources of these nutrients and the pounds of food consumed at various points in time.

Food consumption estimates used in nutrient calculations are expressed in terms of retail-weight equivalents. Food composition values are applied to these consumption data in estimating quantities of nutrients provided. Resulting figures represent supplies of nutrients available for ingestion, inasmuch as food consumption estimates do not take into account losses and trimmings in household food storage, meal preparation, and food discard.

Nutrient trends reflect changes in foods consumed over time. These changes have resulted from changes in supplies, incomes, and tastes; they also reflect the increased use of certain synthetic nutrients in foods. In general, the drop in the quantity of some nutrients in the mid-thirties can be attributed to the effect of low incomes on food consumption. Likewise, the subsequent rise in some nutrients can be correlated with rising incomes. The quantity of calcium is closely related to the consumption of milk, and quantities of vitamin A and ascorbic acid to the consumption of vegetables and fruits. Some nutrients, however, are more widely distributed in foods, and small year-to-year shifts in food consumption can be balancing in terms of nutrients furnished. The higher levels of B-vitamins and iron during the last two decades can be attributed in part to the enrichment of grain products which began in the mid-forties.

Food disappearance data are useful for the study of changes through time in the ingestion of major foods and the nutrients they provide. When used for purposes other than studying trends, the inherent nature of the data should be kept in mind. This is especially true when the nutritive value of food available for consumption is compared with estimates of the nutritional needs of the Nation. One measure of nutritional needs is obtained by multiplying the National Research Council's (NRC) recommended dietary allowances for specified age-sex groups (51) by the proportionate representation of these groups in the population for any given year. But the NRC's recommended allowances apply to nutrients in foods as eaten. Estimates of nutrients in the Nation's diet, on the other hand, indicate what is actually available for consumption at the retail store level without adjustments for nutrient losses which may occur in food preparation or for food waste in family and restaurant kitchens and at the dining table. Hence, the two concepts are not strictly comparable.

Although ample quantities of nutrients may be available from food on an average per capita basis, food is not available to individuals according to their nutritional needs. Some individuals may be receiving too little; others, more than they need. Thus, a generous margin in quantities of nutrients in relation to nutritional goals is desirable.

Estimates of the nutritive value of food available for consumption may not include the total supply of nutrients. For example, quantities of calcium and other minerals added to flour to make it self-rising are not included. The nutritive contents of baking powder, yeast or dough conditioners, alcoholic beverages, and vitamin and mineral preparations are also excluded.

Procedures Used

The general method used to calculate the nutritive value of food available for consumption is to multiply the pounds per capita of each food by its nutritive value per pound "as purchased." From totals of the resulting products, nutritive values per capita per day are obtained (table 35). Quantities of individual foods used in

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Table 35.—Nutrients available for consumption per capita per day, 1909-63 1/

Year	Food energy	Protein	Fat	Carbohydrate	Calcium	Phosphorus	Iron 2/	Vitamin A value 3/	Thiamine 2/	Riboflavin 2/	Niacin 2/	Ascorbic acid 4/
	Calories	Grams	Grams	Grams	Grams	Grams	Milligrams	Int'l units	Milligrams	Milligrams	Milligrams	Milligrams
1909	3,530	104	127	497	0.83	1.56	15.5	7,800	1.66	1.66	19.5	105
1910	3,490	102	124	495	.80	1.55	15.3	7,600	1.63	1.62	19.3	107
1911	3,470	101	126	488	.78	1.52	15.2	7,700	1.63	1.60	18.7	99
1912	3,470	102	124	490	.85	1.57	15.2	7,800	1.65	1.68	19.0	104
1913	3,460	100	125	489	.83	1.54	14.8	7,400	1.62	1.64	18.8	103
1914	3,440	98	127	483	.80	1.49	14.5	7,300	1.58	1.76	18.1	100
1915	3,430	97	126	481	.80	1.50	14.6	7,600	1.66	1.72	18.3	105
1916	3,380	96	126	474	.74	1.47	14.3	7,500	1.57	1.77	17.7	96
1917	3,330	95	122	469	.81	1.50	14.7	7,800	1.54	1.72	18.2	98
1918	3,380	97	129	484	.88	1.54	15.3	7,700	1.58	1.67	18.3	102
1919	3,440	97	130	476	.84	1.51	15.1	8,000	1.65	1.63	18.5	100
1920	3,290	93	123	457	.84	1.47	14.9	7,700	1.52	1.82	17.5	104
1921	3,280	91	122	441	.83	1.44	14.6	7,800	1.50	1.79	17.1	104
1922	3,430	97	129	480	.84	1.48	14.9	8,300	1.53	1.83	17.5	104
1923	3,440	97	130	486	.84	1.51	14.8	8,100	1.62	1.85	18.5	109
1924	3,460	96	131	474	.85	1.51	14.7	7,800	1.60	1.80	18.2	106
1925	3,450	95	134	474	.85	1.48	14.9	7,700	1.54	1.84	17.6	106
1926	3,460	94	133	476	.85	1.48	14.4	8,000	1.51	1.84	17.6	104
1927	3,470	95	134	477	.86	1.50	14.4	8,200	1.55	1.84	17.8	105
1928	3,440	94	132	462	.86	1.49	14.4	7,900	1.57	1.84	17.7	105
1929	3,460	94	137	471	.86	1.51	14.3	8,300	1.57	1.80	17.6	111
1930	3,440	93	134	474	.87	1.48	14.2	8,000	1.54	1.84	17.3	111
1931	3,380	92	139	460	.86	1.47	14.1	8,200	1.55	1.84	17.5	107
1932	3,320	91	133	446	.81	1.45	13.7	8,400	1.53	1.82	17.2	107
1933	3,280	90	133	436	.86	1.43	13.6	8,100	1.50	1.80	17.1	105
1934	3,280	91	134	432	.86	1.44	14.0	8,200	1.48	1.81	17.3	108
1935	3,280	88	137	436	.87	1.42	13.5	8,400	1.51	1.78	16.7	112
1936	3,290	92	133	436	.86	1.46	13.9	8,200	1.48	1.81	17.3	109
1937	3,280	90	133	433	.86	1.45	13.8	8,400	1.42	1.82	16.9	110
1938	3,280	90	133	433	.86	1.45	13.7	8,400	1.44	1.83	17.1	114
1939	3,340	92	136	439	.91	1.48	14.0	8,600	1.50	1.87	17.5	116
1940	3,350	93	142	429	.92	1.50	14.2	8,500	1.55	1.90	17.8	115
1941	3,410	94	144	445	.93	1.51	14.4	8,700	1.64	1.92	18.3	115
1942	3,482	97	146	465	.98	1.59	15.4	9,100	1.69	2.00	19.7	117
1943	3,590	100	142	480	.99	1.60	16.1	9,500	2.05	2.19	20.6	115
1944	3,590	99	142	480	1.00	1.60	17.5	9,700	2.14	2.37	22.5	125
1945	3,550	100	138	476	1.00	1.60	17.3	10,200	2.10	2.40	22.7	125
1946	3,530	100	143	472	1.00	1.62	16.8	9,500	2.19	2.48	23.1	123
1947	3,560	97	149	482	1.02	1.67	17.2	9,100	2.14	2.35	21.5	111
1948	3,520	98	146	477	1.04	1.63	16.4	8,700	1.97	2.26	21.0	112
1949	3,520	98	146	477	1.05	1.62	16.4	8,500	1.99	2.29	20.8	107
1950	3,480	98	145	466	1.03	1.63	16.5	8,400	1.94	2.24	20.8	106
1951	3,510	99	151	471	1.08	1.61	16.1	8,300	1.96	2.27	19.9	107
1952	3,470	98	142	462	1.07	1.59	15.8	8,400	1.90	2.31	19.1	105
1953	3,470	98	142	460	1.08	1.60	16.3	8,100	1.89	2.36	21.5	106
1954	3,450	98	140	454	1.08	1.61	16.0	8,300	1.91	2.28	20.1	105
1955	3,470	99	140	458	1.08	1.63	16.1	8,300	1.87	2.31	20.3	108
1956	3,480	99	140	458	1.09	1.64	16.4	8,400	1.87	2.32	20.7	108
1957	3,440	99	141	450	1.08	1.63	16.1	8,200	1.83	2.28	20.3	107
1958	3,410	98	136	435	1.07	1.62	16.1	8,200	1.83	2.27	20.0	106
1959	3,417	97	137	440	1.06	1.63	16.3	8,300	1.84	2.30	20.2	108
1960 p/	3,430	97	140	444	1.07	1.64	16.4	8,400	1.84	2.30	20.3	111
1961	3,424	96	140	442	1.07	1.64	16.4	8,400	1.84	2.31	20.4	110
1962	3,420	96	140	440	1.07	1.64	16.4	8,400	1.84	2.31	20.4	110
1963 p/	3,410	96	140	438	1.07	1.64	16.4	8,400	1.84	2.31	20.4	110

1/ Quantities of nutrients computed by Agricultural Research Service, Consumer and Food Economics Research Division on the basis of estimates of per capita food consumption (retail weight), including estimates of produce of home gardens, prepared by the Economic Research Service. No deduction has been made in nutrient estimates for loss or waste of food in the home, use for pet food, or for destruction or loss of nutrients during the preparation of food. Civilian per capita only, 1941 to date.

2/ Data for iron, thiamine, riboflavin, and niacin include estimates of the quantities of these nutrients added to flour and cereal products.

3/ Includes estimates of quantities added to margarine and to milk of all types.

4/ Includes estimates of quantities added to fruit juices and drinks.

p/ Preliminary.

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Table [illegible]--Percentage of [illegible] nutrients contributed by major food groups in selected periods 1/

Year	Meat, poultry, fish, including fat pork cuts				Eggs	Dairy products excluding butter	Fats and oils including butter		Fruits including melons				Vegetables excluding potatoes and sweetpotatoes				Potatoes and sweetpotatoes		Dry beans, peas, nuts, soya products	Flour and cereal products	Sugars and other sweeteners	Coffee and cocoa products 4/	All food 2/
									Citrus		Other fruits		Dark green and deep yellow		Other vegetables 3/								
	Meat	Poultry	Fish	Total			Butter	Total	Fresh	Processed	Fresh	Processed	Fresh	Processed	Fresh	Processed	Total 2/	Potatoes	Sweetpotatoes				
Food energy																							
[illegible]																							
1965-69	19.0	1.9	.9	21.8	1.1	11.6	4.5	11.7	.4	5/	3.0	3.5	2.0	.1	5/	1.4	.3	1.8	4.0	0.8	2.3	37.6	11.7	0.3	100.0
1965-[illegible]	19.0	[illegible]	.9	21.[illegible]	1.1	[illegible]	4.5	12.[illegible]	.4	5/	1.8	.4	3.[illegible]	.2	5/	1.4	.4	2.1	3.1	.7	2.5	31.0	15.9	.6	100.0
1[illegible]	18.[illegible]	[illegible]	.7	20.[illegible]	1.1	11.[illegible]	4.[illegible]	15.[illegible]	.4	5/	1.8	1.1	3.[illegible]	.3	5/	1.5	.6	2.4	3.[illegible]	.7	3.[illegible]	28.2	15.7	.8	100.0
1967-69	19.[illegible]	1.7	.7	21.[illegible]	1.0	11.[illegible]	3.[illegible]	14.[illegible]	.5	0/	1.5	1.2	2.4	.3	0/	1.4	.4	2.0	2.6	.4	2.[illegible]	23.4	15.7	.8	100.0
1967-	19.1	1.8	.7	21.6	1.0	11.[illegible]	3.3	14.[illegible]	.4	.4	1.5	1.3	3.3	.2	.1	1.2	1.2	2.6	2.5	.3	2.[illegible]	21.4	15.8	.8	100.0
1968	19.[illegible]	1.8	.7	21.[illegible]	1.0	11.[illegible]	3.1	14.[illegible]	.5	.5	1.3	1.4	3.4	.2	.1	1.2	1.2	2.7	2.6	.3	2.[illegible]	21.1	16.1	.8	100.0
1969	19.[illegible]	1.8	.7	21.[illegible]	1.0	11.[illegible]	3.1	14.[illegible]	.4	.4	1.2	1.4	3.3	.2	.1	1.2	1.2	2.7	2.6	.2	3.[illegible]	21.2	16.2	.8	100.0
1970	20.7	1.9	.7	23.[illegible]	1.0	11.[illegible]	3.[illegible]	15.1	.5	.5	1.3	1.4	3.4	.2	.1	1.1	1.3	2.7	2.6	.3	2.[illegible]	20.9	16.3	.7	100.0
1971 2/	17.1	1.[illegible]	.7	19.[illegible]	.9	10.[illegible]	3.[illegible]	13.[illegible]	.5	.4	1.2	1.4	3.1	.2	.1	1.1	1.3	2.7	2.6	.3	3.[illegible]	20.8	16.2	.7	100.0
Protein																							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.1	.1	0	.7	.1	.3	.2	5/	1.[illegible]	.3	2.[illegible]	3.8	.4	4.5	35.8	5/	.1	100.0
1965-[illegible]	22.[illegible]	2.4	.1	25.[illegible]	1.[illegible]	1[illegible]	.1	.1	.2	5/	.7	.3	1.2	.4	5/	2.[illegible]	.[illegible]	3.7	3.2	.4	4.6	31.8	5/	.3	100.0
1[illegible]	22.7	2.[illegible]	.1	25.[illegible]	1.[illegible]	[illegible]	.1	.1	.2	5/	.7	.3	1.3	.5	.1	2.[illegible]	.7	4.[illegible]	3.[illegible]	.4	5.7	28.7	5/	.5	100.0
1967-69	20.[illegible]	4.[illegible]	.1	25.[illegible]	1.[illegible]	[illegible]	.1	.1	.3	.1	.6	.3	1.2	.5	.1	2.4	1.1	4.1	2.5	.3	5.[illegible]	22.[illegible]	2/	.4	100.0
1967-	20.[illegible]	3.[illegible]	.1	24.[illegible]	1.[illegible]	[illegible]	.1	.1	.2	.2	.5	.3	1.2	.4	.1	1.[illegible]	1.4	3.[illegible]	2.4	.1	5.2	1[illegible]	2/	.4	100.0
1968	20.[illegible]	3.[illegible]	.1	24.[illegible]	1.[illegible]	[illegible]	.1	.1	.2	.2	.5	.3	1.2	.4	.2	1.[illegible]	1.4	3.[illegible]	2.3	.1	5.1	1[illegible]	2/	.4	100.0
1969	19.[illegible]	3.[illegible]	.1	23.[illegible]	1.[illegible]	[illegible]	.1	.1	.2	.2	.5	.3	1.1	.4	.1	1.[illegible]	1.4	3.[illegible]	2.4	.1	5.3	1[illegible]	2/	.4	1[illegible]
1970	17.[illegible]	3.[illegible]	.1	21.[illegible]	1.[illegible]	[illegible]	.1	.1	.2	.2	.4	.3	1.1	.3	.1	1.[illegible]	1 4	3.[illegible]	2.3	.1	5.2	1[illegible]	2/	.4	100.[illegible]
1971 2/	18.[illegible]	3.[illegible]	.1	22.[illegible]	1.[illegible]	[illegible]	.1	.1	.1	.2	.4	.3	1.[illegible]	.3	.1	1.[illegible]	1.4	3.[illegible]	2.3	.1	5.2	1[illegible]	2/	.4	100.[illegible]
Fat																							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.1	[illegible].7	5/	0	.4	2/	.3	2/	5/	[illegible]	.1	.3	.2	.1	1.[illegible]	3.8	0	.6	100.0
1965-[illegible]	[illegible]	[illegible].5	[illegible]	[illegible]	[illegible]	[illegible]	13.[illegible]	[illegible]	5/	5/	.[illegible]	.1	.3	2/	5/	[illegible]	.1	.4	.1	.1	2.[illegible]	2.[illegible]	0	1.2	100.0
1[illegible]	[illegible]	1.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	12.[illegible]	[illegible]	5/	5/	.[illegible]	.1	.3	.1	5/	[illegible]	.1	.5	.1	.1	3.3	2.5	0	1.6	100.0
1967-69	[illegible]	1.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5/	5/	.[illegible]	.1	.4	5/	5/	[illegible]	.2	.5	.1	2/	3.4	1.[illegible]	0	1.4	100.0
1967-	[illegible]	1.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5/	5/	.[illegible]	.1	.4	5/	5/	.2	.2	.4	.1	2/	3.2	1.5	0	1.4	100.0
1968	[illegible]	1.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5/	5/	.[illegible]	.1	.4	2/	5/	.2	.3	.5	.1	2/	3.4	1.5	0	1.4	100.0
1969	[illegible]	1.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5/	5/	.[illegible]	.1	.4	2/	5/	.3	.3	.4	.1	2/	3.5	1.5	0	1.5	100.0
1970	[illegible]	1.[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5/	5/	.[illegible]	.1	.4	2/	5/	.2	.3	.4	.1	2/	3.3	1.5	0	1.3	100.0
1971 2/	32.1	1.[illegible]	.[illegible]	[illegible]	.[illegible]	[illegible]	[illegible]	[illegible]	5/	5/	.[illegible]	.1	.3	2/	5/	.2	.3	.4	.1	2/	3.6	1.5	0	1.3	100.0
Carbohydrate																							
[illegible]	.1	[illegible]	0/	.1	.1	[illegible].7	2/	[illegible]	.[illegible]	.[illegible]	[illegible].[illegible]	[illegible].[illegible]	[illegible].[illegible]	.[illegible]	5/	2.1	.4	2.6	[illegible].4	1.2	2.[illegible]	50.1	21.5	.3	100.0
1965-[illegible]	.1	[illegible]	0/	.1	.1	[illegible].7	[illegible]	[illegible]	.[illegible]	.[illegible]	[illegible].4	1.7	[illegible].[illegible]	.3	5/	2.2	.7	3.3	5.1	1.1	2.1	47.3	29.9	.4	100.0
1[illegible]	.1	[illegible]	0/	.1	.1	[illegible].7	[illegible]	[illegible]	.[illegible]	.[illegible]	3.4	[illegible].[illegible]	[illegible].[illegible]	.4	5/	2.5	.[illegible]	3.[illegible]	5.[illegible]	1.2	2.5	44.3	30.4	.6	100.0
1967-69	.1	[illegible]	0/	.1	.1	[illegible].[illegible]	[illegible]	[illegible]	.[illegible]	.5	3.1	2.4	[illegible].[illegible]	.5	.1	2.5	1.5	4.5	4.7	.6	2.2	40.3	32.5	.7	100.0
1967-	.1	[illegible]	0/	.1	.1	[illegible].[illegible]	[illegible]	[illegible]	.[illegible]	.[illegible]	2.7	[illegible].[illegible]	7.1	.4	.1	2.2	2.1	4.7	4.6	.6	2.3	37.6	34.2	.7	100.0
1968	.1	[illegible]	0/	.1	.1	[illegible].[illegible]	[illegible]	[illegible]	.[illegible]	1.[illegible]	2.7	[illegible].[illegible]	7.2	.4	.1	2.2	2.1	4.8	4.8	.5	2.2	37.1	34.9	.7	100.0
1969	.1	[illegible]	0/	.1	.1	[illegible].[illegible]	[illegible]	[illegible]	.[illegible]	.[illegible]	2.[illegible]	3.[illegible]	7.1	.4	.1	2.1	2.2	4.8	4.[illegible]	.5	2.3	37.1	35.[illegible]	.7	100.0
1970	.1	[illegible]	0/	.1	.1	[illegible].[illegible]	[illegible]	[illegible]	.[illegible]	1.[illegible]	2.[illegible]	2.[illegible]	7.[illegible]	.4	.1	2.1	2.2	4.[illegible]	4.[illegible]	.5	2.3	36.8	35.3	.7	100.0
1971 2/	.1	[illegible]	0/	.1	.1	[illegible].[illegible]	[illegible]	[illegible]	.[illegible]	.[illegible]	2.[illegible]	[illegible].1	[illegible].7	.4	.1	2.1	2.3	4.[illegible]	4.[illegible]	.5	2.3	36.[illegible]	35.5	.7	100.0

Continued-

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Table 36.—Percentage of total nutrients contributed by major food groups in selected periods 1/ -Continued

Year	Meat, poultry, fish, including fat pork cuts				Eggs	Dairy products excluding butter	Fats and oils including butter		Fruits including melons				Vegetables excluding potatoes and sweetpotatoes				Potatoes and sweetpotatoes		Dry beans, peas, nuts, soya products	Flour and cereal products	Sugars and other sweeteners	Coffee and cocoa products 4/	All food 2/
									Citrus		Other fruits		Dark green and deep yellow		Other vegetables 3/								
	Meat	Poultry	Fish	Total 2/			Butter	Total	Fresh	Processed	Fresh	Processed	Fresh	Processed	Fresh	Processed	Total 2/	Potatoes	Sweetpotatoes				
Calcium																							
1909-13	2.2	0.3	1.6	4.1	2.7	67.8	0.5	0.9	0.3	0	1.4	0.4	2.1	0.6	5/	5.9	0.3	7.0	1.6	0.9	3.2	7.4	1.8	0.7	100.0
1925-29	1.9	.2	1.5	3.6	2.8	69.4	.5	.6	.5	5/	1.2	.7	2.4	1.8	0.1	5.6	.6	8.1	1.2	.7	2.9	6.1	1.3	.9	100.0
1935-39	1.7	.2	1.7	3.6	2.4	70.6	.5	.6	.6	5/	1.1	.7	2.6	2.1	.2	5.2	.7	8.1	1.0	.7	3.1	5.0	1.2	1.1	100.0
1947-49	1.8	.3	1.2	3.3	2.0	74.3	.3	.4	.2	0.2	.8	.6	2.3	1.8	.3	4.1	.9	7.0	.8	.4	2.5	3.3	1.1	1.1	100.0
1957-59	1.9	.3	1.0	3.2	2.8	70.6	.2	.4	.5	.3	.7	.7	2.1	1.3	.4	3.4	1.2	6.2	.7	.2	2.6	3.3	.8	1.1	100.0
1960	2.0	.3	.9	3.2	2.6	70.7	.2	.4	.5	.2	.6	.7	2.1	1.3	.4	3.4	1.2	6.3	.8	.2	2.5	3.3	.8	1.1	100.0
1961	2.0	.3	.9	3.2	2.6	70.4	.2	.4	.4	.4	.6	.7	2.1	1.3	.4	3.4	1.3	6.3	.8	.2	2.7	3.3	.8	1.1	100.0
1962	2.0	.3	.9	3.2	2.6	70.6	.2	.4	.4	.3	.6	.7	2.1	1.2	.4	3.3	1.3	6.2	.8	.2	2.6	3.3	.9	1.1	100.0
1963 6/	2.1	.3	.9	3.3	2.5	70.8	.2	.4	.3	.2	.6	.7	2.0	1.2	.4	3.3	1.3	6.2	.8	.2	2.6	3.3	.9	1.1	100.0
Phosphorus																							
1909-13	15.9	2.0	2.0	19.9	5.9	27.7	.2	.2	.1	0	1.2	.3	1.6	.3	5/	3.8	.4	4.5	3.3	.7	5.4	26.8	.2	.4	100.0
1925-29	14.9	2.0	2.2	19.1	6.2	31.1	.2	.2	.2	5/	1.2	.5	2.0	.6	5/	4.6	.8	5.4	5.1	.6	5.6	22.9	.2	1.8	100.0
1935-39	14.3	1.8	2.2	18.4	5.7	33.6	.2	.3	.4	5/	1.1	.6	2.1	.7	.1	4.2	.9	6.0	4.7	.6	6.5	19.8	.2	2.6	100.0
1947-49	15.4	2.4	2.0	20.3	7.0	37.4	.1	.2	.4	.2	.9	.5	2.0	.7	.1	3.6	1.3	5.8	3.8	.4	5.0	15.2	.2	2.1	100.0
1957-59	17.0	3.1	2.0	22.0	6.8	38.8	.1	.2	.2	.3	.8	.5	1.4	.5	.2	3.0	1.7	5.4	3.9	.2	5.7	13.1	.2	2.6	100.0
1960	17.5	3.2	2.0	22.7	6.4	38.6	.1	.2	.2	.3	.8	.5	1.5	.5	.2	3.0	1.8	5.5	3.7	.2	5.7	13.0	.2	2.6	100.0
1961	17.4	3.5	2.0	22.9	6.3	38.2	.1	.2	.2	.3	.8	.6	1.6	.5	.2	3.0	1.8	5.5	3.8	.2	5.9	12.7	.2	2.1	100.0
1962	17.8	3.4	2.0	23.2	6.2	38.4	.1	.2	.2	.4	.8	.5	1.6	.5	.2	3.0	1.8	5.5	3.7	.2	5.8	12.8	.2	2.0	100.0
1963 6/	18.2	3.5	2.0	23.7	6.0	38.2	.1	.2	.2	.4	.7	.6	1.7	.5	.2	3.0	1.8	5.4	3.7	.2	5.8	12.8	.2	2.0	100.0
Iron																							
1909-13	23.3	1.5	1.0	26.4	5.3	1.6	0	0	.3	0	3.7	1.0	4.8	.9	0.1	6.7	1.0	8.7	7.2	1.1	6.8	26.8	0.3	1.5	100.0
1925-29	22.3	1.5	1.4	25.2	7.2	1.9	0	0	.5	5/	3.8	2.0	6.5	2.2	.2	6.7	1.9	11.0	8.0	1.0	6.8	24.0	0.1	2.9	100.0
1935-39	21.0	1.4	1.5	24.7	6.7	2.1	0	0	.7	.1	3.8	2.0	6.5	2.7	.3	7.2	2.6	12.8	5.6	1.0	10.0	20.2	0.5	3.5	100.0
1947-49	21.4	1.5	1.2	24.1	7.2	2.1	0	0	.7	.3	2.9	2.0	5.2	1.4	.3	5.9	3.5	11.2	4.0	.5	7.2	20.7	0.3	3.1	100.0
1957-59	24.3	2.6	1.1	27.1	7.1	2.3	0	0	.5	.4	2.4	2.2	5.0	1.4	.3	4.2	4.0	11.1	3.9	.4	7.4	20.2	0.2	3.0	100.0
1960	23.7	2.6	1.1	27.5	6.9	2.3	0	0	.4	.4	2.4	2.2	5.0	1.4	.3	4.3	4.0	11.1	4.0	.3	7.6	20.0	0.5	3.0	100.0
1961	23.4	3.0	1.1	27.5	6.4	2.3	0	0	.4	.3	2.1	2.2	4.7	1.3	.3	4.4	4.7	10.4	4.0	.3	7.4	20.0	0.4	3.1	100.0
1962	23.8	3.0	1.0	27.9	6.4	2.3	0	0	.4	.3	2.0	2.2	4.9	1.2	.3	4.3	4.7	10.9	4.1	.3	7.2	20.4	0.4	3.0	100.0
1963 6/	24.9	3.0	1.0	28.9	6.2	2.3	0	0	.3	.3	2.0	2.3	4.9	1.2	.3	4.3	4.7	10.8	4.0	.3	7.1	20.1	0.5	3.0	100.0
Vitamin A value 1/																							
1909-13	13.3	2.2	.2	21.7	6.4	10.1	9.5	9.5	.2	0	8.6	1.0	9.2	8.4	.4	6.5	1.8	14.1	0	22.0	5/	2.0	0	5/	100.0
1925-29	10.4	2.0	.1	18.5	6.6	10.5	9.2	9.2	.4	5/	7.3	1.5	9.2	15.7	1.2	7.5	2.8	27.2	0	17.6	5/	1.1	0	5/	100.0
1935-39	14.3	1.8	.1	16.2	5.7	10.3	8.4	8.6	.7	5/	6.7	1.8	9.2	19.0	1.8	7.8	3.5	32.1	0	17.0	5/	.8	0	5/	100.0
1947-49	16.8	2.6	.1	19.5	7.1	11.5	5.0	7.6	.7	.3	5.9	1.6	8.3	14.1	3.5	6.9	5.3	34.8	0	10.7	5/	.5	0	5/	100.0
1957-59	17.6	2.2	.1	19.9	7.3	12.7	4.2	8.7	.4	.6	5.2	1.7	8.0	15.7	5.0	6.1	7.7	34.5	0	8.3	5/	.4	0	5/	100.0
1960	17.8	2.3	.1	20.2	6.9	12.1	3.8	8.7	.4	.7	5.3	1.8	8.2	15.8	5.3	6.2	8.2	36.0	0	7.4	5/	.4	0	5/	100.0
1961	18.1	2.5	.1	20.7	6.9	12.3	3.4	8.9	.4	.7	5.4	1.8	8.3	15.6	5.2	6.2	8.6	35.7	0	6.9	5/	.4	0	5/	100.0
1962	18.1	2.4	.1	20.6	6.8	12.3	3.8	8.6	.4	.8	5.1	1.7	8.0	15.0	5.8	6.1	8.6	35.6	0	7.7	5/	.3	0	5/	100.0
1963 6/	18.5	2.5	.1	21.1	6.7	12.2	3.6	8.5	.3	.6	5.1	1.9	7.9	15.5	5.4	6.1	8.9	35.8	0	7.3	5/	.3	0	5/	100.0

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Table 36.—Percentage of total nutrients contributed by major food groups in selected periods 1/ -Continued

Year	Meat, poultry, fish, including fat pork cuts				Eggs	Dairy products excluding butter	Fats and oils including butter		Fruits including melons					Vegetables excluding potatoes and sweetpotatoes					Potatoes and sweetpotatoes		Dry beans, peas, nuts, soya products	Flour and cereal products	Sugars and other sweeteners	Coffee and cocoa products 4/	All food 2/
									Citrus		Other fruits			Dark green and deep yellow		Other vegetables 3/									
	Meat	Poultry	Fish	Total 2/			Butter	Total	Fresh	Processed	Fresh	Processed	Total 2/	Fresh	Processed	Fresh	Processed	Total 2/	Potatoes	Sweetpotatoes					
														Thiamine 1/											
1909-13	30.3	0.8	0.4	31.5	2.6	9.1	0	0	0.6	0	2.6	0.3	3.5	0.5	5/	6.0	0.6	7.2	11.9	1.4	7.2	25.6	5/	5/	100.0
1925-29	31.7	.6	.3	33.0	3.0	10.2	0	0	1.0	5/	2.6	.7	4.3	1.0	5/	6.9	1.1	9.1	9.8	1.2	7.2	22.0	5/	0.1	100.0
1935-39	29.5	.8	.5	30.8	2.9	11.4	0	0	1.7	0.1	2.5	.9	5.2	1.3	0.1	7.8	1.5	10.7	9.5	1.3	8.7	19.3	5/	.1	100.0
1947-49	26.6	.8	.4	27.7	2.9	10.0	0	0	1.4	.2	1.6	.7	4.2	1.0	.1	5.2	1.8	8.1	6.2	.6	5.7	34.5	5/	.1	100.0
1957-59	26.1	.9	.4	27.4	2.8	10.5	0	0	.8	1.3	1.4	.8	4.3	.8	.2	4.4	2.5	7.8	6.0	.4	6.0	34.8	5/	.1	100.0
1960	26.8	.9	.4	28.1	2.6	10.3	0	0	.8	1.4	1.4	.8	4.3	.8	.2	4.4	2.6	7.9	6.0	.3	5.7	34.5	5/	.1	100.0
1961	26.1	.9	.4	27.4	2.6	10.2	0	0	.7	1.3	1.3	.8	4.2	.8	.2	4.3	2.6	7.9	6.2	.3	6.1	35.1	5/	.1	100.0
1962	26.7	.9	.4	28.0	2.6	10.2	0	0	.7	1.5	1.3	.8	4.3	.7	.2	4.2	2.6	7.8	6.1	.3	5.8	34.7	5/	.1	100.0
1963 6/	27.4	1.0	.4	28.7	2.5	10.2	0	0	.5	1.1	1.3	.8	3.7	.8	.2	4.2	2.7	7.8	6.1	.3	6.0	34.5	5/	.1	100.0
														Riboflavin 1/											
1909-13	20.6	1.4	1.4	23.5	6.7	42.0	0	0	0.2	0	2.4	0.4	2.9	0.9	5/	4.7	0.5	6.1	3.8	.7	2.3	11.3	.3	.5	100.0
1925-29	18.6	1.3	1.1	21.0	7.2	45.0	0	0	.3	5/	2.3	.6	3.2	1.6	.1	4.8	.7	7.3	3.0	.6	2.3	9.5	.2	.8	100.0
1935-39	17.4	1.2	1.1	19.6	6.6	47.8	0	0	.4	5/	2.1	.7	3.3	1.8	.1	5.0	.9	7.8	2.7	.6	2.6	7.7	.2	1.0	100.0
1947-49	16.6	1.3	.8	18.7	6.8	44.7	0	0	.4	.1	1.4	.5	2.5	1.4	.2	3.6	1.1	6.2	1.9	.3	1.9	16.1	.1	.8	100.0
1957-59	16.8	3.6	.7	21.2	6.5	45.3	0	0	.2	.2	1.2	.6	2.2	1.0	.2	3.0	1.4	5.6	1.7	.2	1.9	14.6	.1	.8	100.0
1960	17.2	3.8	.7	21.8	6.1	45.1	0	0	.2	.2	1.2	.6	2.2	1.0	.3	3.0	1.5	5.6	1.7	.2	1.8	14.6	.1	.8	100.0
1961	17.2	4.2	.7	22.0	6.0	44.5	0	0	.2	.2	1.2	.6	2.2	1.0	.2	2.9	1.5	5.6	1.7	.2	1.9	14.9	.1	.8	100.0
1962	17.4	4.1	.7	22.3	6.0	44.6	0	0	.2	.2	1.1	.6	2.1	.9	.2	2.9	1.5	5.6	1.7	.2	1.9	14.8	.1	.8	100.0
1963 6/	17.8	4.2	.7	22.8	5.8	44.5	0	0	.2	.1	1.1	.6	2.1	9	.2	2.9	1.6	5.6	1.7	.2	1.9	14.7	.1	.8	100.0
														Niacin 1/											
1909-13	33.5	6.6	3.3	43.4	.1	1.5	0	0	.2	0	2.3	0.5	2.9	.4	5/	4.4	0.8	5.6	14.2	0.7	4.8	22.6	.1	4.0	100.0
1925-29	32.2	6.6	3.6	42.4	.1	1.8	0	0	.4	5/	2.4	.8	3.6	.7	5/	4.9	1.4	7.1	11.9	.7	6.5	20.3	.1	5.6	100.0
1935-39	31.7	6.3	4.2	42.2	.1	2.0	0	0	.6	5/	2.3	.9	3.8	.9	.1	5.5	1.8	8.3	11.1	.7	7.7	17.0	.1	6.9	100.0
1947-49	30.2	7.0	3.2	40.4	.1	1.9	0	0	.5	.2	1.7	.7	3.1	.7	.1	4.0	2.3	7.1	7.8	.3	6.1	26.0	.1	7.2	100.0
1957-59	32.1	6.6	3.5	42.3	.1	2.0	0	0	.3	.4	1.5	.8	3.0	.6	.2	3.2	3.0	6.9	7.4	.2	6.3	25.2	5/	6.4	100.0
1960	32.4	6.6	3.5	42.5	.1	1.9	0	0	.3	.4	1.5	.8	3.1	.6	.2	3.2	3.1	7.0	7.4	.2	6.4	25.1	5/	6.3	100.0
1961	32.2	7.0	3.6	42.8	.1	1.9	0	0	.3	.4	1.4	.8	3.0	.6	.2	3.1	3.1	6.9	7.5	.2	6.5	24.8	5/	6.3	100.0
1962	32.5	7.0	3.6	43.1	.1	1.9	0	0	.3	.5	1.3	.8	2.9	.5	.2	3.1	3.1	6.9	7.4	.2	6.5	24.6	.1	6.3	100.0
1963 6/	33.3	7.1	3.5	43.8	.1	1.9	0	0	.2	.3	1.3	.9	2.7	.5	.2	3.0	3.2	6.9	7.3	.2	6.6	24.3	5/	6.2	100.0
														Ascorbic Acid 1/											
1909-13	1.1	0	5/	1.1	0	4.4	0	0	5.7	0	10.5	.4	16.5	4.6	.1	35.1	2.4	42.1	31.2	4.6	5/	0	5/	0	100.0
1925-29	1.0	0	5/	1.0	0	4.5	0	0	9.4	.1	10.2	.9	20.6	8.7	.2	33.8	3.4	46.0	24.1	3.9	5/	0	5/	0	100.0
1935-39	.8	0	5/	.8	0	4.3	0	0	13.3	.8	8.6	1.2	24.0	10.1	.2	31.6	4.1	46.0	21.1	3.7	5/	0	5/	0	100.0
1947-49	1.0	0	5/	1.0	0	4.8	0	0	14.7	5.7	7.1	1.8	29.2	9.8	.6	27.7	6.0	44.0	18.7	2.2	5/	0	5/	0	100.0
1957-59	1.1	0	5/	1.1	0	5.2	0	0	9.6	12.5	6.5	4.4	33.0	8.1	1.2	22.7	8.1	40.0	19.2	1.5	5/	0	5/	0	100.0
1960	1.0	0	5/	1.0	0	4.9	0	0	9.2	13.3	6.3	4.9	33.7	8.2	1.2	22.2	8.2	39.9	19.1	1.3	5/	0	5/	0	100.0
1961	1.0	0	5/	1.0	0	4.9	0	0	8.5	12.5	6.5	5.9	33.3	8.6	1.2	21.9	8.4	40.0	19.6	1.1	5/	0	5/	0	100.0
1962	1.0	0	5/	1.0	0	4.9	0	0	8.1	13.9	6.2	5.9	34.3	7.9	1.2	21.7	8.4	39.1	19.4	1.3	5/	0	5/	0	100.0
1963 6/	1.1	0	5/	1.1	0	5.2	0	0	6.6	10.6	6.7	6.6	30.5	8.5	1.2	22.6	9.1	41.6	20.3	1.3	5/	0	5/	0	100.0

1/ Percentages were derived from nutrient data which include quantities of iron, thiamine, riboflavin, and niacin added to flour and cereal products; quantities of vitamin A value added to margarine and milk of all types; quantities of ascorbic acid added to fruit juices and drinks. 2/ Components may not add to total due to rounding. 3/ Includes tomatoes. 4/ Coffee and chocolate liquor equivalent of cocoa beans. 5/ Less than 0.05 percent. 6/ Preliminary.

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Table 37.--Per capita consumption of food by major groups in selected periods 1/

Year	Meat, poultry, fish				Eggs 5/	Dairy products, excluding butter (milk equivalent 6/)	Fats and oils, including butter		Fruits, including melons 8/					Vegetables, excluding potatoes and sweetpotatoes					Potatoes and sweetpotatoes 11/		Dry beans, peas, nuts, soya products 14/	Flour and cereal products	Sugar and other sweeteners 15/	Coffee, tea, cocoa 16/
									Citrus		Other			Dark green and deep yellow		Other, including tomatoes								
	Meat 2/	Poultry 3/	Fish 4/	Total			Butter	Total 7/	Fresh	Processed 9/	Fresh	Processed 10/	Total	Fresh 11/	Processed 12/	Fresh 11/	Processed 13/	Total	Potatoes	Sweetpotatoes				
	Lb.	Lb.	Lb.	Lb.	Lb.	Qt.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
1909-13	141.4	17.5	13.3	172.2	37.4	177	17.6	40.6	16.9	---	15[illegible]	8.1	176.3	14	0.5	171.[illegible]	16.[illegible]	203	182.3	22.7	16.3	291	89.1	9.9
1925-29	139.0	16.6	13.7	159.4	40.3	191	15.3	47.8	30.7	0.2	134.1	18.5	183.5	13.9	1.3	166.4	25.3	216.9	142.5	19.5	16.9	237	118.6	13.4
1935-39	120.1	16.[illegible]	13.1	149.3	38.4	20[illegible]	17.9	49.3	46.7	2.3	120.8	23.2	1[illegible]	27.2	2.3	170.8	30.8	231.1	127.7	19.3	18.9	204	110.5	15.9
1947-49	141.1	20.4	14.8	176.3	47.3	[illegible]36	16.3	49.[illegible]	52.0	13.7	111.[illegible]	30.2	2[illegible]7.7	26.5	4.4	157.4	43.3	231.6	110.7	12.0	16.8	171	109.5	19.1
1957-59	144.3	33.9	13.3	191.[illegible]	45.[illegible]	24[illegible]	8.[illegible]	48.8	32.[illegible]	24.9	87.7	37.8	1[illegible].[illegible]	19.3	9.[illegible]	130.5	53.5	208.8	102.1	7.7	16.5	148	106.5	15.1
1960	1[illegible].7	4[illegible].7	1[illegible].[illegible]	1[illegible].[illegible]	42.4	2[illegible]	7.[illegible]	48.5	31.[illegible]	2[illegible].[illegible]	[illegible]0.7	4[illegible].5	184.[illegible]	14.4	5.[illegible]	130.5	54.[illegible]	2[illegible].[illegible]	102.6	[illegible].[illegible]	16.2	147	1[illegible].8	15.1
1961	1[illegible].[illegible]	3[illegible].[illegible]	1[illegible].7	1[illegible].2	41.[illegible]	2[illegible]	7.4	48.4	2[illegible].2	2[illegible].[illegible]	8[illegible].[illegible]	3[illegible].1	177.[illegible]	1[illegible].[illegible]	[illegible].4	120.3	[illegible]5.1	2[illegible].3	1[illegible].7	[illegible].3	16.[illegible]	146	1[illegible].1	15.4
196[illegible]	1[illegible].1	3[illegible].4	1[illegible].[illegible]	1[illegible].1	41.[illegible]	2[illegible]	7.[illegible]	4[illegible].[illegible]	2[illegible].[illegible]	2[illegible].2	7[illegible].2	3[illegible].[illegible]	174.2	1[illegible].[illegible]	[illegible].7	12[illegible].[illegible]	56.[illegible]	2[illegible].4	1[illegible].7	7.1	1[illegible].[illegible]	144	1[illegible].8	15.[illegible]
1963 17/	1[illegible].7	3[illegible].[illegible]	1[illegible].[illegible]	2[illegible].3	4[illegible].[illegible]	2[illegible]	[illegible].[illegible]	4[illegible].[illegible]	21.4	2[illegible].[illegible]	7[illegible].7	4[illegible].[illegible]	1[illegible].5	15.4	[illegible].4	12[illegible].7	57.[illegible]	2[illegible].2	1[illegible].4	[illegible].7	1[illegible].[illegible]	144	11[illegible].[illegible]	15.[illegible]

1/ Summary of quantity data used in the nutrient calculations; equivalent to the retail store level of distribution. Food groupings were selected to match those of importance to nutrient analysis and are parallel to those in table [illegible]. Data for individual items are found in tables 7-29. The data are the same as those in table 5, the annual summary of all food, except for fruit and vegetable groupings and: (1) Spices are omitted; (2) concentrated fruit juices are on a single-strength basis. Detail may not add to total and total may not precisely equal the similar total in table 5 because of rounding.

2/ Fresh-retail-cut equivalent. Includes fat cuts of pork, game, and edible offal.

3/ Ready-to-cook basis. Excludes game birds.

4/ Edible-weight basis. Includes game fish, approximated at 2.0 pounds 1909-31, increasing 0.1 pound annually to 3.0 pounds in 1961.

5/ Shell egg basis.

6/ Milk equivalent based on calcium content. One quart of fluid milk weighs 2.15 pounds.

7/ Product weight except for "other edible fats and oils," which represents use in mellorine, salad dressings, and other products.

8/ Includes melons produced in home gardens.

9/ Product weight except for concentrated citrus juices which are on a single-strength equivalent.

10/ Includes fruit baby food.

11/ Includes home-garden produce.

12/ Includes baby foods.

13/ Includes vegetable soups: Tomato soup estimated to constitute one-third of the total soups shown in table 23 through 1940, then proportion declines gradually to 20 percent in 1946 and thereafter; other vegetable soups are estimated to comprise 40 percent of total soups over the entire period; ingredients of remaining soups (meat and fish base) are included in their respective groups.

14/ Data from tables 24, 25, and 29. Includes dry beans and peas produced in home gardens.

15/ Excludes sugar used in production of canned and frozen fruit, canned fruit juices, canned vegetables, and unskimmed sweetened condensed milk.

16/ Includes regular coffee on roasted basis, instant coffee on a product basis, and chocolate liquor equivalent of cocoa and chocolate products.

17/ Preliminary.

estimating the nutrient contents are tabulated and described in chapter 3 and summarized in table 37. The percentage of each nutrient contributed by major food groups in selected time periods is given in table 36.

With few exceptions, the food composition values used were those in Composition of Foods (92, table 2). The values are U.S. averages that represent the nutrients in foods throughout the year. They are for foods "as purchased," and allow for refuse such as bones, rinds, and peelings. They assume products are in good condition with an average amount of refuse. The values do not allow for losses in fruits and vegetables due to excessive peeling and trimming, or to bruises and rot.

Current estimates of consumption include data on approximately 250 different foods. For earlier years, however, detailed data were not available for as many individual foods. In some instances, estimates were given only for totals of groups of similar foods. Because similar foods often vary greatly in proportions of nutrients they contain, for earlier years it was necessary to approximate roughly the quantities of individual foods comprising these group totals. These approximations covered only a small percentage of all food.

For most commodities, one set of food composition values judged most representative was used consistently throughout the time series. The food composition values are averages that take into account the variety, breed, stage of maturity, and seasonal and geographic differences in foods. These factors have not remained constant over the years of this study, but there are no statistics on which to base adjusted composition values for most foods. However, differences in values and quantities consumed would have to be large in order to affect significantly the overall nutritive value of the Nation's food. In a few cases, the nutritive values per pound for a food were adjusted to account for marked changes in marketing practices and in varietal differences over the years. These changes are discussed under the specific commodity groups.

Meat, Poultry, and Fish

Meat

Supplies of meat from different species of animals were estimated in terms of carcass trimmed to a fresh, retail-cut equivalent. The nutritive values of these supplies were calculated by applying data from published tables of food composition to quantities of the different kinds of meat. For beef, data selected for computation were the nutritive values for the composite of the trimmed retail cuts from carcasses of U. S. Grade Good. In contrast to the per capita consumption estimates, no change was assumed over time in the proportion of loss from carcass to retail weight of beef and veal. The same nutritive values were used throughout the series, although they probably apply less well to beef in earlier years than to supplies currently in the retail market.

For pork other than bacon and salt pork, data on composition selected for the calculations were those for the composite of the so-called lean cuts from hog carcasses of a medium-fat class (trimmed to retail basis). The composite of these lean cuts consisted of the ham, loin, shoulder, and spareribs. Estimates for bacon and salt pork were given only in terms of total fat cuts that together represent about 28 percent of the carcass. Trade data indicated that these products were available in the proportion of about 3 parts of bacon to 1 part of salt pork. This ratio was used in developing weighted nutritive values for fat cuts. The same proportion was used for the entire series.

For lamb, data used were for the composite of the retail cuts from lamb carcasses of U. S. Grade Choice. Data for medium-fat veal carcasses were used for estimating nutritive value of supplies of veal because of lack of data on composition of veal carcasses trimmed to the retail basis.

Edible offal includes such items as liver, heart, kidney, tongue, brains, tripe, and sweetbreads. Edible offal production was computed as a percentage of meat production (carcass weight) for each species of meat animal. The total of all

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offal by species was divided among the various kinds of organ meats by applying a weighted average yield for each. A representative nutritive value was assigned to each component in obtaining a weighted nutritive value for all edible offal from all species for the entire series.

Poultry

An estimate was made of the proportion of mature and young chickens consumed over the years. This made it possible to apply separate nutritive values to per capita consumption estimates that account for the shift in consumption from older (stewers) to younger (roasters and fryers) birds.

Fishery Products

Information on fish and shellfish consumption has been provided by the U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Commercial Fisheries. Estimates of the proportion of fatty and lean fresh and frozen fish have been made on the basis of historical data on catch of the various kinds of fresh fish. This detail has made it possible to evaluate more accurately the nutritive value of the fish and seafood supply.

Dairy Products, Excluding Butter

Per capita consumption estimates of dairy products were made in terms of quantities of individual foods except for fluid milk and cream and for ice cream and other frozen desserts. Because of the changing composition of these items over time, nutrient estimates were based on the total milkfat and residual, nonfat portion of the fluid fresh items, and on the milkfat and solids-not-fat content of ice cream and other frozen desserts.

Beginning with 1957, nutrient calculations include an estimate of the amount of vitamin A used in the fortification of milk. This estimate is based on the Census survey, "The Enrichment and Fortification of Foods, 1957-61"(49). Estimates for 1962 and 1963 are assumed to have remained at the 1961 level.

In interpreting the nutritional contribution of dairy products, other than butter, it sometimes is desirable to convert quantities consumed to a milk equivalent using calcium content of various dairy products as the basis. The total quantity of calcium furnished by all dairy products, excluding butter, in any year is divided by the calcium in 1 quart of milk to arrive at estimates of the number of quarts of fluid-whole-milk equivalent of the milk products. Milk and milk products are leading sources of calcium in the national diet. However, this method of converting to a milk-equivalent basis has the disadvantage of not allowing for changes in the other nutrients found in dairy products. Pounds per capita of total fluid-milk equivalent (calcium basis) of all dairy products (except butter) are shown in table 10.

Fats and Oils

In computing nutrients contributed by the fats and oils group, an estimate of the degree of fortification of margarine with vitamin-A value was incorporated. No fortification was assumed for margarine before 1937. The proportions and levels of fortification assumed after that date are shown below:

Year	Fortification	Level of fortification per pound
	Percent	International units
1938	65	9,000
1939	70	9,000
1940	75	9,000
1941	80	9,000
1942	85	9,000
1943	95	9,000
1944	100	9,000
1945	100	9,000
1946	10	9,000
	90	15,000
1947	5	9,000
	95	15,000
1948	1	9,000
	99	15,000
1949-63	100	15,000

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Vegetables and Fruits

Vegetables

Nutrients were computed separately for potatoes; sweetpotatoes; dark-green and deep-yellow vegetables; and other vegetables including tomatoes. The dark-green and deep-yellow vegetable group is being used for the first time. The group brings together those vegetables that are outstanding sources of vitamin-A value. The groupings for vegetables will now conform more closely to those used in dietary guidance materials and household food surveys.

Before 1919, estimates of per capita consumption of some of the vegetables within these groups were not available. A 5-year average (1919-23) of more detailed vegetable statistics was used to derive percentage distributions by which to estimate the vegetable distribution for each year prior to 1919.

Some subgroups of vegetables contain minor items that are quantitatively significant only in certain seasons or in particular regions. Included are such vegetables as collard, Chinese cabbage, parsnips, turnips, and rutabagas. The only information on supplies of such individual vegetables is from carload reports for the major cities of the United States. Distribution of individual vegetables within each of these groups was used as the basis for deriving weighted nutritive values per pound for estimates of total amounts of miscellaneous vegetables. The weighted values were used for all years.

Potatoes and Sweetpotatoes

Decreased consumption of white potatoes until the mid-1950's and sweetpotatoes might logically be expected to have resulted in a noticeable drop in amounts of ascorbic acid and vitamin-A value in the Nation's food. But compensating factors have partially offset the effect of decreased use. Fall-harvested potatoes, most of which are stored for later marketing, accounted for nearly all the total white potato supply in early years. But over the years, potatoes harvested during the spring and summer and marketed after little storage have furnished an increased share of the total supply. Since new potatoes contain much more ascorbic acid than storage potatoes and since storage conditions have been much improved, the average ascorbic acid content of white potatoes per pound is higher now than in early years.

Genetic research conducted on sweetpotatoes has resulted in a substantial replacement of the paler varieties by deep-yellow or orange-fleshed ones which are higher in vitamin-A value. Therefore, an adjustment was made in the vitamin-A values applied to sweetpotato consumption figures for recent years.

Fruits

In the nutrient study, fruits are classified as either "citrus fruits" or "other fruits." Except for watermelons and cantaloups, estimates of per capita consumption for individual fruits were available for the entire series. Only the total of watermelons and cantaloups was available prior to 1919. The same procedure used to estimate the quantities of individual vegetables before 1919 was used to estimate the quantities of watermelons and cantaloups.

Beginning with 1957, nutrient calculations for "other fruits" include an estimate of the amount of ascorbic acid used in the fortification of fruit juices and fruit drinks. These estimates are based on the 1957-61 enrichment survey, which will be discussed in connection with enrichment of cereal products.

Cereal Products

Nutritive values were used for most individual foods in the cereal group. But, for a few foods, composite values seemed more representative. Nutritive values used for "wheat cereals" assumed the use of 50 percent of the farina type and 50 percent of the shredded type of cereal. The nutritive value of corn flakes was used for all corn breakfast cereals. Cornmeal was assumed to be equal parts of white, whole-ground, unbolted, and yellow degermed meals. These composite values were used throughout the series.

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During 1946, about 17 percent of all white flour was assumed to be milled using an 80-percent extraction rate. A Government order effective March 1, 1946, required that wheat for human consumption be milled to 80-percent extraction. This order was withdrawn as of September 1, 1946, because long extraction flours did not produce the quality of baked products which Americans expected from white flour.

Data on supplies of self-rising and phosphated flour are not available for the entire series, so calcium contributed by these flours could not be evaluated year by year. It is estimated, however, that these products would have little effect on the per capita supply of calcium.

A major problem in estimating the nutrients contributed by grain products was to ascertain the extent to which various products were enriched or fortified during the later years. The methods used in deriving these levels are described in the following paragraphs.

Enrichment of White Flour

No enrichment of white flour was assumed before 1941. For 1941-45, the industry and a USDA "bread specialist" estimated the proportion of the total flour that went into white bread and rolls. The flour was assumed to be enriched to the minimum levels promulgated by the U.S. Food and Drug Administration, as published in the Federal Register for May 27, 1941, and July 3, 1943. After the expiration in 1946 of War Food Order No. 1, requiring compulsory enrichment, it could not be assumed that enrichment was continuing at the previous rate. Consequently, the Bureau of the Census has made periodic surveys for USDA to collect information from manufacturers and distributors of synthetic vitamins and iron on the quantities of ingredients added to cereal products. 5/ The percentage of total white flour (exclusive of semolina and durum) estimated to have been enriched each year since 1940 and the estimated level of enrichment are given below:

Year	Percentage enriched	Level of enrichment
1941	20	Iron, thiamine, and niacin to the minimum levels promulgated by the U.S. Food and Drug Administration in 1941. (Federal Register, May 27, 1941.)
1942	50	As in 1941.
1943	67	Three-fourths to the same levels as in 1941-42. One-fourth with iron, thiamine, riboflavin, and niacin to the minimum levels promulgated by the U.S. Food and Drug Administration in 1943. (Federal Register, July 3, 1943.)
1944-53	65	Iron, thiamine, riboflavin, and niacin to the minimum levels promulgated by the U.S. Food and Drug Administration in 1943.
1954-63	60	As in 1944-53.

5/ Surveys for the following years were published in the National Food Situation: 1946-47, NFS-49, July-Sept. 1949; 1948-49, NFS-54, Oct.-Dec. 1950; 1950-53, NFS-69, Aug. 1954; 1957-61, NFS-106, Nov. 1963 (19).

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It is likely that some products were enriched above minimum levels. Since the extent of this practice cannot be determined, only minimum levels of enrichment were assumed.

Enrichment of Other Cereal Products

No enrichment or fortification was assumed for wheat or corn cereals before 1939, although there may have been some during the latter part of the period. On the basis of trade data for 1939-41, half of the farina-type cereals and half of the corn cereals were assumed to be fortified with iron, thiamine, and niacin. The farina-type wheat cereal was assumed enriched to the minimum levels promulgated by the U. S. Food and Drug Administration in 1941 (Federal Register, May 27, 1941). The corn cereals were assumed fortified to minimum amounts suggested by NRC for "restored" cereals (50).

From 1942 to 1945, all of the farina-type cereals and all of the corn cereals were assumed enriched with the same nutrients as in 1939-41 and beginning in 1944, with riboflavin.

Beginning with 1946, estimates of enrichment or fortification of cereal products were obtained from surveys made by the Bureau of the Census for USDA. But surveys before 1957 provided an estimate of the ingredients used only for the entire group of cereal products other than flour. The quantities of nutrients added to specified cereal products--ready-to-eat and hot cereals, cornmeal and hominy grits, macaroni, and rice --were not collected until the 1957-61 Census survey.

The quantities of nutrients added to cereal products other than flour for 1946-53 were assumed to represent enrichment or fortification of ready-to-eat and hot cereals. No cornmeal or hominy grits were assumed to be enriched prior to 1943. Nutrient calculations for succeeding years have included enrichment ingredients. For macaroni, adjustments in calculations for enrichment were made beginning with 1945 and for rice, with 1954. Any enrichment of these products for years earlier than indicated probably was insignificant. Amounts of enriching ingredients added to cereal products, other than flour, are based on survey data, with interpolation for the years prior to 1957. Estimates for 1962 and 1963 are assumed to have remained at the 1961 level.

Sugars and Other Sweeteners

Consumption of sugars and other sweeteners has been adjusted to exclude amounts used in the manufacture of canned and frozen fruits and vegetables, sweetened condensed milk, and frozen dairy products (chapter 3). Nutrients in the sweeteners used in these processed products are included in their respective food groups. Therefore, the sugars and other sweeteners group in table 36 does not include the total carbohydrate and calories in all sweeteners consumed.

Miscellaneous Foods

Nutritive values for chocolate liquor were used for calculating nutritive values of chocolate products since consumption was reported on that basis. A factor of 73.7 percent has been applied to the weight of cocoa beans to obtain the weight of chocolate liquor. Revised per capita consumption estimates of cocoa beans in chapter 3 were not available in time to recompute the nutrients.

The nutrients given for coffee represent only the soluble nutrients extracted in brewing coffee. Data for coffee have been included because recent research has indicated significant quantities of niacin present.

It was not feasible to estimate the small quantities of nutrients that may be furnished by tea.

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CHAPTER 6. SUPPLY AND USE OF FOOD

Food consumption estimates are derived from balance sheet tables that tally the total supply of a given commodity for each year and allocate the total annual use among various end uses. Civilian food consumption usually is derived as the residual after all specified uses are deducted from total annual use. The purpose of this chapter is to give the basic supply and utilization tables and describe their organization, components, and the primary data from which they are derived.

Balance Sheet Organization

The components of a table of supply and utilization are expressed in terms of equivalent units. The point of measurement often is an early stage in the marketing system but not before the item can be recognized as a food product rather than a raw farm commodity. Exceptions are made for certain foods; for example, the food uses of corn, oats, and barley are converted to grain equivalents. Processed products, such as fats and oils, dairy products, and part of the fruits and vegetables, usually are shown in terms of standard processed weights. Many of these products are measured before becoming final consumer products because after processing, primary products may be indistinguishable. Products that are marketed in essentially the same form as produced on farms, such as fresh produce, are measured in farm weights at the first stage of assembly or sale after leaving the farm.

The organization of the supply-utilization tables differs from that previously published. The difference between annual supply and use is the year-end carryover stock; it becomes the following year's beginning stock, unless otherwise noted. To avoid repetition, no year-end stock column is now shown.

Supply

Total supply is defined as beginning stocks, annual production, and imports. It is a gross concept that, particularly for crops, may exceed the total amount of product available at any given time of the year. Stocks on hand January 1 may be well depleted by the time the new crop is harvested in summer or fall. Also, total imports for the year are added to supply even though similar products may simultaneously be exported. Resulting net foreign trade may be small. Total annual use omits the duplication of production and stock carryover but not that involved in foreign trade.

Carryover stocks include both those commercially held and those owned or under loan by the Commodity Credit Corporation(CCC), USDA. Stocks normally reported include those reported on farms, in terminal markets, in cold-storage and other warehouses, and those held by processors and wholesalers. Stocks held beyond the wholesale level of the marketing system normally are excluded because of lack of data. Unreported stocks usually include those held by retailers and other final sellers, the military, consumers, and sometimes even those held by processors and wholesalers. Availability, source, and coverage of data vary by commodity and occasionally over time, but beginning and ending stocks in each year are comparable.

Imports include inshipments from the Territories. Alaska and Hawaii were treated as Territories through 1959, though data between 1948 and 1959 were incomplete. Beginning with 1960, the first full year after Alaska and Hawaii became States, data are on a 50-State basis. For a few commodities, the break in series is noticeable, but for most the change is small.

Utilization

The utilization side of the balance sheet is divided between exports and domestic use. Domestic use is further broken down among various food and nonfood uses. Exports for all uses are subdivided into commercial exports and those moving under USDA programs. Exports include shipments to Territories--including Alaska and Hawaii prior to 1960 , insofar as data are available.

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Beginning with 1955, USDA exports include those exported under Public Law 480 (Agricultural Trade Development and Assistance Act) and Public Law 87-195 (Mutual Security and the Act for International Development). USDA exports are the Food-for-Peace shipments comprising sales for foreign currency, foreign disaster relief and other donations, barter, and sales under long-term loans. Commerical exports include all exports except those specified as USDA. Included are sales with export assistance, such as cash payments, payments-in-kind, sales using Government-extended short-term credit, Government-to-Government sales, as well as the regular unassisted commercial transactions. For most commodities, USDA exports under the designated programs are synonymous with total exports from USDA stocks. However, minor exports under P.L. 480 have not come from USDA stocks; and some exports from USDA stocks have gone out under other than the specified programs.

Prior to 1955, the first full year of P.L. 480, the distinction by type of program was not made. USDA exports then consisted of total deliveries for export as carried in the separate USDA account previously published as part of the balance sheet. They involved only noncommercial transactions. Under the current integrated format, USDA stocks are added to commercial stocks and total supply. Net purchases for export no longer are listed separately but can usually be derived by combining net USDA stock change with USDA exports.

Nonfood uses of food products such as livestock feed, seed, alcohol, production not marketed, and certain minor marketing losses are listed as appropriate for individual commodities. In a few instances, to prevent duplication a food used as an ingredient of another food product is deducted from use of the primary product; for example, lard used in shortening or margarine. But there are few supply-utilization tables of mixed foods.

Military use is shown separately for most commodities. Only military purchases by central procurement are included. Local purchases and purchases by military personnel from post exchanges, commissaries, and nonmilitary sources normally are excluded. As a result, total rather than civilian consumption per capita may be the better concept for use during peace-time. Military consumption attains large proportions during wartime. Consequently, consumption data since 1941 show both civilian and military use whenever feasible. During World War II, an adjustment was made to account for civilian food supplies eaten by military personnel.

Domestic food distribution programs have expanded sharply in recent years, so foods donated to civilians are shown separately beginning with 1955. Included are commodities acquired under USDA's price-support and surplus-removal programs and donated through the Commodity Distribution Program of the Consumer and Marketing Service (C&MS) to needy persons, charitable institutions, and the school lunch program. In addition, schools participating in the National School Lunch Program receive supplementary foods purchased centrally with designated USDA funds. Not included are subsidized food purchases under the Food Stamp Program, local purchases of food for school lunch, and foods donated to the military or veterans. The value of foods or funds donated domestically in fiscal 1964 totaled $669 million for all programs, $430 million (or about two-thirds) of which is included as USDA-donated commodities in the supply-utilization tables. 6/ Though listed separately, donated foods are included in civilian per capita food consumption estimates.

Total civilian food use normally is computed as the residual from total supply after deducting all other known uses. More precisely, the data are estimates of disappearance of food into the marketing system. Being a residual quantity, it includes errors of measurement or omission in the data used in building up the supply and allocating among the various uses, including ending stocks. For this reason, data sources and continuity over time are

6/ The value of donated commodties is the total cost incurred by the Federal Government in procuring, processing, storing, and transporting the commodities.

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carefully evaluated for all uses. For example, measurement of stocks may be changed over time due to new sources of data becoming available, but beginning and ending stocks within a given year are kept comparable.

Per capita civilian consumption is computed on the basis of U.S. civilian population on July 1, except for a few foods not on a calendar-year basis. The consumption estimates are tabulated in detail in the various food consumption tables reported in chapter 3. The population data are given in chapter 9.

Major Sources of Data

Production

Historical data on annual national production of most of the major food commodities are reasonably adequate for most of the last 4 decades. Information for years before 1924 is much less satisfactory. Estimates of food production are based on data from the Censuses of Agriculture and Manufactures which provide benchmarks every 5 years, and from the Crop Reporting Board of SRS for interim years. USDA has good historical records, usually by States, of acreages, yields, production, stocks, and prices for major crops and of livestock production, numbers on feed, movements, and prices.

The Crop Reporting Board is the central fact-collecting and estimating agency for current agricultural statistics. However, primary meat slaughter data are a byproduct of Federal meat inspection by the Consumer and Marketing Service (formerly Agricultural Marketing Service). Data on fish are collected by the Fish and Wildlife Service.

The present crop reporting service has developed gradually since establishment of USDA more than 100 years ago (94). The Crop Reporting Board was organized in 1905 to review all State crop and livestock reports and to issue national reports. Significant improvements in the reporting system were made just before World War I and in 1923 and 1924. Work is carried on through the offices of Federal agricultural statisticians located in 43 States. These offices obtain much of their current information through the cooperation of some 750,000 voluntary reporters. These reporters are chiefly farmers reporting on their own farm operations, but they also include many local merchants, handlers, and processors of agricultural commodities, assessors, and other State and local officials. Many sources are available to cross-check much of the primary data.

Though production data are essentially complete and are continually being improved, data still lacking or fragmentary include estimates of production from home gardens and orchards for most foods; local fish catch and game kill; noncommercial production of apples (estimates of which are forbidden by statute); nonfarm production of milk, eggs, and poultry; production of ducks and geese; estimates of acreage and production of quinces and some small fruits, other than cranberries and strawberries; and regular and uniform reporting of the number and age of fruit and nut trees by varieties. No annual data are available on the dry milling of cereal products. Check data, such as market receipts, sometimes cover too small a part of total production to be worthwhile. Information is lacking for nonfederally inspected production of canned meat, by species, for many other processed meats, and for edible offal.

To fill in gaps in information considered essential during World War II, special surveys were made. These included Census surveys of the packs of processed fruits and vegetables and surveys by the Bureau of Agricultural Economics (BAE) of nonfederally inspected wholesale and retail slaughter. The fruit and vegetable work later was taken over by the National Canners Association; the slaughter surveys have been continued by SRS.

Much of the production, stock, and consumption data for fats and oils comes from monthly surveys conducted by Bureau of the Census. Census also conducts a monthly survey of soybean crushings.

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Foreign Trade

Information on foreign trade in food commodities for years up to 1942, and for imports throughout the period, was taken from reports of the Bureau of the Census. 7/ Data in these publications were derived from documents filed by exporters and importers. Before January 1, 1934, only general imports were available. General imports included commodities entering bonded customs warehouses for storage. To approximate imports for consumption, exports of foreign merchandise (re-exports) were subtracted from general imports.

Data on imports for consumption are available beginning January 1, 1934. These include commodities entering immediately into merchandising or consumption channels, plus commodities withdrawn from bonded warehouses for domestic consumption. Re-exports are omitted both from imports and exports in this handbook.

For the World War II years, additional data were available on foreign trade. These included information on Government shipments to U. S. Territories under the stockpiling programs, Government procurement in the Territories for immediate export or for military use, and shipments by Government agencies for use by our allies. For most commodities, it was possible to reconcile data on lend-lease shipments for the total war period. When differences in classification, timing, or errors in reporting prevented reconciliation, detailed study was made of USDA purchases. USDA data on deliveries, coordinated with its data on stocks, indicated annual takings from market supplies. Food procured by the military services for civilian feeding in occupied areas was measured in the year procured rather than in the year shipped. It was included with military procurement data as described below.

Exports and shipments of food through commercial channels were estimated for the war years after a careful analysis was made of total exports and of Government exports, such as those under the Lend-Lease Act, the United Nations Relief and Rehabilitation Administration (UNRRA), and other relief programs. Beginning in April 1948, no official data were available on inshipments from and shipments to Alaska and Hawaii, because shippers were not required to file documents on the subject in accordance with the provisions of P.L. 476 (80th Congress, approved April 7, 1948). For those foods for which receipts from or shipments to Alaska and Hawaii were large, estimates were made for 1948 to 1959. Alaskan and Hawaiian exports and imports are included with those of the other 48 States.

Exports under P.L. 480 and AID programs currently are published in Foreign Agricultural Trade of the United States (17). Detailed data by title under P.L. 480, by commodity and by country of destination, are given in pound and dollar values in various issues of the report. Exports under specified programs are published on both a fiscal-year and calendar-year basis. In addition, CCC credit sales, export-import bank loans, and medium-term guarantees are published annually by major commodity groups. A recent report gives shipments under specified Government-financed programs annually by title of P.L. 480 for 1955-63 (14).

Stocks

Stocks of food commodities include supplies held in all forms by farmers, manufacturers, the CCC, and various

7/ From 1909-1946, Foreign Commerce and Navigation of United States (74); beginning with 1947, data on imports appeared in United States Imports of Merchandise for Consumption (79) and export data were in United States Exports of Domestic and Foreign Merchandise (78) Annual statistics on trade with offshore Territories and possessions of the United States from 1909-41 were obtained from the December issues of Monthly Summary of Foreign Commerce (75); beginning with 1942, United States Trade in Merchandise and Gold and Silver with United States Territories and Possessions (77) was the source.

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types of distributors. Although available information on total stocks are often incomplete, the bulk of the stocks probably is reported for most products.

Information on stocks of food was obtained from reports on commercial cold-storage warehouse stocks (since 1914), Crop Reporting Board reports such as grain stocks on farms and at mills, terminals, and elevators, market-news data on stocks in terminal markets, Bureau of the Census surveys, and some trade data. During World War II, such data were supplemented by special surveys when the Government took control over distribution of coffee, tea, cocoa, and some of the spices. Monthly reports on packers' and wholesale distributors' stocks were required for administration of the rationing program. Price-support loans and inventories held by CCC currently are reported monthly (13).

Data on War Food Administration stocks were estimated until 1944 when the first complete physical inventory was made. A second complete inventory was taken in 1945-46. Military stocks were excluded from changes in supplies because military procurement was defined as the quantities taken annually from commercial marketing channels.

Only scattered information on retail stocks of food and supplies in transit is available. Wholesalers' and processors' stocks of perishable items are partially covered in cold-storage warehouses reports, but supplies held outside commercial cold-storage warehouses are not reported.

Military and Other Government Takings

Although a thorough investigation of source material has been made, it is not possible to obtain usable data on military takings during World War I. The only available data are records of overseas shipments to the American Expeditionary Forces (AEF), which apparently included supplies for Belgian relief, the American Red Cross, and the allies. Accordingly, consumption estimates for 1917-19 include the Armed Forces in the population and supplies for the AEF in the total food supply. Information on military takings before 1942 is fragmentary, partly because procurement was largely decentralized. Estimates were made for 1941, when they first became significant.

Estimates of military food takings after 1941 are based on reports of actual deliveries to military agencies of centrally procured food products. Detailed, monthly reports are received by the Economic Research Service (ERS) directly from Headquarters, Defense Subsistence Supply Center, Chicago, Illinois. They currently consist of computer machine tabulations of individual transactions reported by class of product, giving pounds, total cost, and unit cost. Data do not cover military acquisitions from foreign sources because such do not enter the United States. ERS commodity specialists who compile the supply utilization tables adjust the reported data to primary weight equivalents and make estimates of certain locally procured supplies, such as fluid milk.

Supplies procured and used by the Armed Forces for feeding civilians in occupied areas are included with those for the Armed Forces. Such use was significant during and immediately following World War II. There is little information on such food diverted to troops nor on food diverted to civilians from supplies for troops. No information is available on food supplies procured under the regular supply programs and sold or used for civilian feeding abroad by the Armed Forces at the end of the war. However, transfers of such supplies held in the United States were accounted for.

Nonfood Utilization

The Crop Reporting Board provides information on principal nonfood uses of food commodities at the farm level. Some data on such uses during processing stages are available from the Census of Manufactures and from monthly census surveys. Production not marketed and certain waste and marketing losses also are reported for some commodities. However, data on many industrial and other miscellaneous uses, such as for pet food, are not available in sufficient detail to exclude from total food consumption.

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Meats

Civilian meat consumption in the United States for 1909-63 is the difference between the supply available from all sources and domestic utilization (table 38) 8/ It is computed by the standard disappearance method.

Meat is produced in commercially operated plants and by slaughter on farms. Commercial slaughter is divided into slaughter under Federal inspection and by other commercially operated plants. Data on number of head slaughtered in federally inspected plants are obtained through the administration of the Meat Inspection Act of 1906, which applies to meat for interstate sale. Live and dressed weights are obtained directly from the plants. Meat production and slaughter statistics relating to slaughter in non-federally inspected plants have been obtained monthly since 1944 by SRS. Estimates for earlier years were based on information available in the Census of Manufactures and with balance sheets of livestock numbers, and on miscellaneous records of local slaughter obtained through State agencies (91).

Primary data on the number of meat animals slaughtered on farms have been obtained for about 40 years by SRS as part of annual field surveys of the disposition of livestock. Production data for 1933-36 include meat from livestock bought and slaughtered by the Federal Government and used mainly for drought relief.

Commercial stocks have been reported since 1916. As a rule, estimates of civilian consumption are poorest for earliest years, and progressively improve in accuracy, decade by decade. Currently, data on total meat stocks are published in Cold Storage Report (88). Total stocks are a summation of stocks of beef, pork, lamb and mutton, veal, excluding canned products. Stocks held by the Government during its programs of 1933-36 and of World War II are deducted from data on commercial stocks and are carried as USDA stocks. Stocks are reported in product weight rather than carcass-weight equivalent, but the difference in these two categories is small.

Meat produced under Government programs in the mid-1930's went into domestic consumption. Some of each year's production was in storage at the end of the year. The net change in USDA stocks, as calculated from beginning and ending storage figures, carries forward the supplies from USDA slaughter. In this way, the quantity of each year's consumption includes only that part of emergency slaughter meat actually released to civilian consumers during the year.

USDA operations in the meat field were quite extensive during and just after World War II. At that time, the Department supplied meat for Lend-Lease, UNRRA, and several other agencies. Information on meat procurement by military agencies during and since World War II is based principally on the records of the Defense Subsistence Supply Center in Chicago and its predecessors.

Production and Distribution of Edible Offal

Edible offal is a secondary, but by no means negligible, product from livestock slaughter. Nonetheless, aside from beef kidneys, data on carcass weights of meat production and consumption exclude edible offal.

In terms of weight per animal, the most important offal products are head meat (including tongue), heart, liver, and tripe (table 39). Other items include plucks, sweetbreads, weasands, and tails. Hog, sheep, and lamb kidneys are included, but beef kidneys are not because they are part of the dressed-beef carcass. Caul and other fats, tallow, oleo oils, and casings are excluded.

8/ Data in table 38 are in terms of carcass weight. Carcass weight of beef, veal, and lamb and mutton is defined as approximately equivalent to the dressed carcass, excluding offal. But as pork is cut immediately into products, the carcass weight of pork is the total of the individual products, excluding offal and omitting the weight of material rendered into lard.

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Table 38.--Meats: Supply and utilization, 1909-63 1/

Year	Supply						Utilization							
			Beginning stocks 4/					Exports and shipments			Domestic disappearance for food			
												Civilian		
	Production 2/	Imports and inshipments 3/	Commercial	USDA	Total	Total supply	Total use 5/	Commercial 6/	USDA	Total	Military 7/	USDA donations	Total	Per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
							A. Beef							
1909	6,915	1	---	---	---	6,916	6,916	203	---	203	---	---	6,713	74.2
1910	6,647	1	---	---	---	6,648	6,648	140	---	140	---	---	6,508	70.4
1911	6,549	1	---	---	---	6,550	6,550	124	---	124	---	---	6,426	68.5
1912	6,234	3	---	---	---	6,237	6,237	84	---	84	---	---	6,153	64.6
1913	6,182	42	---	---	---	6,224	6,224	67	---	67	---	---	6,157	63.3
1914	6,017	277	---	---	---	6,294	6,294	150	---	150	---	---	6,144	62.0
1915	6,075	111	---	---	---	6,186	6,186	518	---	518	---	---	5,668	56.4
1916	6,460	21	148	---	148	6,629	6,389	386	---	386	---	---	6,003	58.9
1917	7,239	51	240	---	240	7,530	7,175	488	---	488	---	---	6,687	64.7
1918	7,7 0	375	355	---	355	8,456	8,121	954	---	954	---	---	7,167	68.5
1919	6,756	76	335	---	335	7,167	6,868	406	---	406	---	---	6,462	61.5
1920	6,306	51	299	---	299	6,656	6,513	220	---	220	---	---	6,293	59.1
1921	6,042	29	143	---	143	6,194	6,109	85	---	85	---	---	6,024	55.5
1922	6,588	34	85	---	85	6,707	6,591	88	---	88	---	---	6,503	59.1
1923	6,721	30	116	---	116	6,867	6,761	90	---	90	---	---	6,671	59.6
1924	6,877	32	106	---	106	7,015	6,872	86	---	86	---	---	6,786	59.5
1925	6,878	33	143	---	143	7,054	6,969	81	---	81	---	---	6,888	59.5
1926	7,089	72	85	---	85	7,246	7,145	71	---	71	---	---	7,074	60.3
1927	6,395	134	101	---	101	6,630	6,553	69	---	69	---	---	6,484	54.5
1928	5,771	183	77	---	77	6,030	5,931	59	---	59	---	---	5,872	48.7
1929	5,871	246	99	---	99	6,216	6,112	64	---	64	---	---	6,048	49.7
1930	5,917	134	104	---	104	6,155	6,080	59	---	59	---	---	6,021	48.9
1931	6,009	52	75	---	75	6,136	6,083	58	---	58	---	---	6,025	48.6
1932	5,789	63	53	---	53	5,905	5,862	32	---	32	---	---	5,830	46.7
1933	6,440	104	43	---	43	6,587	6,508	39	---	39	---	---	6,469	51.5
1934	8,345	118	79	---	79	8,542	8,122	56	---	56	---	---	8,066	63.8
1935	6,608	201	141	279	420	7,229	6,823	53	---	53	---	---	6,770	53.2
1936	7,358	226	106	300	406	7,990	7,796	54	---	54	---	---	7,742	60.5
1937	6,798	307	194	---	194	7,219	7,158	51	---	51	---	---	7,107	55.2
1938	6,908	200	61	---	61	7,169	7,111	53	---	53	---	---	7,058	54.4
1939	7,011	219	58	---	58	7,288	7,211	52	---	52	---	---	7,159	54.7
1940	7,175	168	77	---	77	7,420	7,313	56	---	56	---	---	7,257	54.9
1941	8,082	257	107	---	107	8,446	8,309	51	1	52	236	---	8,021	60.9
1942	8,843	211	135	2	137	9,191	9,048	31	24	55	944	---	8,049	61.2
1943	8,571	225	127	16	143	8,939	8,619	26	64	90	1,669	---	6,860	53.3
1944	9,112	189	227	93	320	9,621	9,454	37	65	102	2,206	---	7,146	55.6
1945	10,276	127	89	78	167	10,570	10,070	34	11/295	329	2,076	---	7,665	59.4
1946	9,376	19	10/258	242	500	9,895	9,738	35	11/626	661	544	---	8,533	61.6
1947	10,432	64	151	3	154	10,650	10,481	176	3	179	386	---	9,916	69.6
1948	9,075	351	169	---	169	9,595	9,446	44	---	44	239	---	9,163	63.1
1949	9,439	247	149	---	149	9,835	9,714	27	---	27	248	---	9,439	63.9
1950	9,534	338	121	---	121	9,993	9,846	21	---	21	296	---	9,529	63.4
1951	8,837	472	147	---	147	9,456	9,438	18	---	18	748	---	8,472	56.1
1952	9,650	429	197	21	218	10,297	10,035	29	---	29	458	---	9,548	62.2
1953	12,407	471	238	24	262	12,940	12,691	39	12/29	58	520	---	12,113	77.6
1954	13,963	231	226	23	249	13,443	13,255	44	12/18	62	450	---	12,743	80.1
1955	13,969	229	177	11	188	13,986	13,781	59	6	65	403	23	13,313	82.0
1956	14,468	211	197	8	205	14,878	14,634	80	29	109	404	30	14,121	85.4
1957	14,202	390	207	37	244	14,836	14,702	48	64	112	348	67	14,242	84.6
1958	13,330	866	131	3	134	14,360	14,186	47	---	47	353	---	13,786	80.4
1959	13,580	1,047	171	3	174	14,801	14,599	51	---	51	346	---	14,202	81.4
1960	14,791	760	700	2	702	15,713	15,543	54	1	55	343	1	15,145	85.0
1961	15,323	1,021	167	3	170	16,414	16,314	54	2	56	360	30	15,898	87.8
1962	15,320	1,414	197	3	200	16,934	16,745	50	1	51	372	1	16,322	88.8
1963 13/	16,448	1,641	186	3	189	18,288	18,007	52	---	52	365	23	17,590	94.2

See footnotes at end of table

Continued -

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Table 38.—Meats: Supply and utilization, 1909-63 1/ -Continued

Year	Supply						Utilization							
			Beginning stocks 4/					Exports and shipments			Domestic disappearance for food			
	Production 2/	Imports and inshipments 3/	Commercial	USDA	Total	Total supply	Total use 5/	Commercial 6/	USDA	Total	Military 7/	USDA donations	Civilian Total	Civilian Per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil. b.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	lb.
							B. Veal							
1909	660	—	—	—	—	660	660	—	—	—	—	—	660	7.3
1910	667	—	—	—	—	667	667	—	—	—	—	—	667	7.2
1911	666	—	—	—	—	666	666	—	—	—	—	—	666	7.1
1912	662	—	—	—	—	662	662	—	—	—	—	—	662	6.9
1913	608	1	—	—	—	609	609	—	—	—	—	—	609	6.3
1914	572	—	—	—	—	572	572	—	—	—	—	—	572	5.8
1915	590	1	—	—	—	591	591	—	—	—	—	—	591	5.9
1916	656	1	—	—	—	656	656	—	—	—	—	—	656	6.4
1917	744	1	—	—	—	745	745	—	—	—	—	—	745	7.2
1918	760	1	—	—	—	761	761	—	—	—	—	—	761	7.3
1919	819	5	—	—	—	824	824	—	—	—	—	—	824	7.8
1920	842	10	—	—	—	852	852	—	—	—	—	—	852	8.0
1921	820	4	—	—	—	824	824	—	—	—	—	—	824	7.6
1922	852	6	—	—	—	858	858	—	—	—	—	—	858	7.8
1923	916	3	—	—	—	919	919	—	—	—	—	—	919	8.2
1924	972	5	—	—	—	977	977	—	—	—	—	—	977	8.6
1925	989	4	—	—	—	993	993	—	—	—	—	—	993	8.6
1926	955	4	—	—	—	959	959	—	—	—	—	—	959	8.2
1927	867	8	—	—	—	875	875	—	—	—	—	—	875	7.4
1928	778	3	—	—	—	781	781	—	—	—	—	—	781	6.5
1929	761	5	—	—	—	766	766	—	—	—	—	—	766	6.3
1930	790	4	—	—	—	794	794	—	—	—	—	—	794	6.4
1931	823	1	—	—	—	824	824	—	—	—	—	—	824	6.6
1932	822	—	—	—	—	822	822	—	—	—	—	—	822	6.6
1933	891	—	—	—	—	891	891	—	—	—	—	—	891	7.1
1934	1,180	—	—	—	—	1,180	1,182	—	—	—	—	—	1,182	9.4
1935	1,083	—	—	04	04	1,087	1,087	—	—	—	—	—	1,087	8.5
1936	1,075	—	—	—	—	1,075	1,075	—	—	—	—	—	1,075	8.4
1937	1,106	—	—	—	—	1,106	1,106	—	—	—	—	—	1,106	8.6
1938	994	—	—	—	—	994	994	—	—	—	—	—	994	7.6
1939	991	—	—	—	—	991	991	—	—	—	—	—	991	7.6
1940	981	—	—	—	—	981	981	—	—	—	—	—	981	7.4
1941	1,000	—	—	—	—	1,000	1,005	5	—	5	26	—	1,005	7.6
1942	1,151	1	—	—	—	1,152	1,152	3	—	3	65	—	1,084	8.2
1943	1,107	1	—	—	—	1,108	1,159	3	10	13	81	—	1,059	8.2
1944	1,738	1	—	—	—	1,739	1,744	4	25	29	111	—	1,594	12.4
1945	1,904	1	2	9	14	1,919	1,650	5	7	12	112	—	1,534	11.9
1946	1,446	1	10	11	21	1,467	1,454	4	15	21	49	—	1,384	10.0
1947	1,315	2/	27	1	28	1,343	1,347	17	1	18	34	—	1,345	10.8
1948	1,401	2/	21	—	21	1,422	1,422	4	—	4	40	—	1,378	10.5
1949	1,294	2/	21	—	21	1,315	1,316	2	—	2	34	—	1,280	9.7
1950	1,229	2/	10	—	10	1,239	1,242	3	—	3	34	—	1,205	8.8
1951	1,264	2/	14	—	14	1,285	1,288	3	—	3	63	—	1,222	8.6
1952	1,152	2/	17	—	17	1,169	1,152	1	—	1	62	—	1,089	7.2
1953	1,540	2/	14	—	14	1,554	1,554	2	—	2	62	—	1,489	9.5
1954	1,644	1	31	—	31	1,676	1,648	2	—	2	55	—	1,591	10.0
1955	1,559	2/	31	—	31	1,590	1,580	3	—	3	46	—	1,531	9.4
1956	1,646	2/	14	—	14	1,660	1,641	8	—	8	51	—	1,572	9.5
1957	1,580	2/	26	—	26	1,606	1,598	4	—	4	48	—	1,546	8.8
1958	1,200	2/	12	—	12	1,212	1,160	2	—	2	44	—	1,150	6.7
1959	1,438	2/	10	—	10	1,448	1,438	2	—	2	38	—	1,398	8.7
1960	1,134	2/	10	—	10	1,144	1,134	2	—	2	25	—	1,092	6.1
1961	1,060	2/	14	—	14	1,074	1,058	2	—	2	40	—	1,022	5.6
1962	1,030	2/	11	—	11	1,041	1,041	2	—	2	35	—	1,004	5.5
1963 1/	43	2/	11	—	11	54	54	2	—	2	10	—	42	4.7

See footnotes at end of table

Continued -

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Table 38.—Meats: Supply and utilization, 1909-1963 1/ -Continued

Year	Supply						Utilization							
			Beginning stocks 4/					Exports and shipments				Domestic disappearance for food		
	Production 2/	Imports and inshipments 3/	Commercial	USDA	Total	Total supply	Total use 5/	Commercial 6/	USDA	Total	Military 7/	Civilian		
												USDA donations	Total	Per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	lb.
						C. Lamb and mutton								
1909	608	9/	—	—	---	608	608	2	---	2	—	---	606	6.7
1910	597	1	---	---	---	598	598	2	---	2	---	---	596	6.5
1911	693	9/	---	---	---	693	693	3	---	3	---	---	690	7.3
1912	735	9/	---	---	---	735	735	6	---	6	---	---	729	7.7
1913	706	1	---	---	---	707	707	6	---	6	---	---	701	7.2
1914	693	20	---	---	---	713	713	5	---	5	---	---	708	7.1
1915	605	12	---	---	---	617	617	5	---	5	---	---	612	6.1
1916	585	16	5	---	5	606	601	6	---	6	---	---	595	5.8
1917	463	6	5	---	5	474	467	4	---	4	---	---	463	4.5
1918	506	1	7	---	7	514	501	2	---	2	---	---	499	4.8
1919	590	8	13	---	13	611	601	3	---	3	---	---	598	5.7
1920	538	102	10	---	10	650	562	4	---	4	---	---	578	5.4
1921	639	26	68	---	68	733	727	65	---	65	---	---	662	6.1
1922	553	12	6	---	6	571	567	2	---	2	---	---	565	5.1
1923	588	5	4	---	4	597	595	3	---	3	---	---	592	5.3
1924	597	2	2	---	2	601	598	2	---	2	---	---	596	5.2
1925	603	3	3	---	3	609	607	2	---	2	---	---	605	5.2
1926	639	3	2	---	2	644	639	2	---	2	---	---	637	5.4
1927	629	3	5	---	5	637	633	2	---	2	---	---	631	5.3
1928	663	3	4	---	4	670	664	2	---	2	---	---	662	5.5
1929	682	4	6	---	6	692	687	1	---	1	---	---	686	5.6
1930	825	1	5	---	5	831	826	2	---	2	---	---	824	6.7
1931	885	9/	5	---	5	890	888	2	---	2	---	---	886	7.1
1932	884	9/	2	---	2	886	883	1	---	1	---	---	882	7.1
1933	852	9/	3	---	3	855	851	2	---	2	---	---	849	6.8
1934	851	9/	4	---	4	855	800	2	---	2	---	---	798	6.3
1935	877	9/	5	50	55	932	925	2	---	2	---	---	923	7.3
1936	854	9/	3	4	7	861	851	2	---	2	---	---	849	6.6
1937	852	9/	10	---	10	862	859	2	---	2	---	---	857	6.6
1938	897	9/	3	---	3	900	896	2	---	2	---	---	894	6.9
1939	872	9/	4	---	4	876	871	2	---	2	---	---	869	6.6
1940	876	9/	5	---	5	881	876	3	---	3	---	---	873	6.6
1941	923	9/	5	---	5	928	920	6	---	6	13	---	901	6.8
1942	1,042	1	8	---	8	1,051	1,011	4	8	12	49	---	950	7.2
1943	1,104	1	21	19	40	1,145	1,091	3	126	129	132	---	830	6.4
1944	1,024	9/	33	21	54	1,078	1,046	3	68	71	118	---	857	6.7
1945	1,054	9/	20	12	32	1,086	1,064	4	24	28	93	---	943	7.3
1946	968	9/	16	6	22	990	974	4	17	21	30	---	923	6.7
1947	799	9/	16	---	16	815	796	12	---	12	22	---	762	5.3
1948	747	3	19	---	19	769	743	5	---	5	5	---	733	5.1
1949	604	4	26	---	26	633	619	3	---	3	7	---	609	4.1
1950	597	3	14	---	14	614	604	2	---	2	6	---	596	4.0
1951	521	7	10	---	10	538	524	1	---	1	6	---	517	3.4
1952	646	6	14	---	14	668	646	1	---	1	5	---	640	4.2
1953	729	3	22	---	22	754	742	2	---	2	5	---	735	4.7
1954	734	2	12	---	12	748	738	2	---	2	6	---	730	4.6
1955	758	2	10	---	10	770	759	1	---	1	5	---	753	4.6
1956	741	1	11	---	11	753	741	2	---	2	4	---	735	4.5
1957	707	4	12	---	12	723	718	4	---	4	5	---	709	4.2
1958	688	41	9	---	9	734	725	2	---	2	4	---	719	4.2
1959	738	108	7	---	7	851	836	2	---	2	4	---	830	4.8
1960	766	87	15	---	15	870	858	2	---	2	4	---	852	4.8
1961	832	101	10	---	10	945	927	2	---	2	2	17	923	5.1
1962	809	143	18	---	18	970	955	2	---	3	2	13	950	5.2
1963 13/	770	145	15	---	15	930	918	1	---	1	3	12	908	4.9

See footnotes at end of table

Continued -

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Table 38.—Meats: Supply and utilization, 1909-63 1/ -Continued

Year	Supply						Utilization						
			Beginning stocks 4/					Exports and shipments			Domestic disappearance for food		
	Production 2/	Imports and inshipments 3/	Commercial	USDA	Total	Total supply	Total use 5/	Commercial 6/	USDA	Total	Military 7/	Civilian	
												USDA donations	Total
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.
						D. Pork (excluding lard)							
1909	6,557	1	—	—	—	6,558	6,558	493	—	493	—	—	6,065
1910	6,087	1	—	—	—	6,088	6,088	332	—	332	—	—	5,756
1911	6,961	2	—	—	—	6,963	6,963	481	—	481	—	—	6,482
1912	6,822	2	—	—	—	6,824	6,824	467	—	467	—	—	6,357
1913	6,979	1	—	—	—	6,980	6,980	479	—	479	—	—	6,501
1914	6,824	28	—	—	—	6,852	6,852	399	—	399	—	—	6,453
1915	7,616	6	—	—	—	7,622	7,622	932	—	932	—	—	6,690
1916	8,207	1	421	—	421	8,629	8,070	1,033	—	1,033	—	—	7,037
1917	7,055	3	559	—	559	7,617	7,053	960	—	960	—	—	6,093
1918	8,349	4	564	—	564	8,917	8,194	1,810	—	1,810	—	—	6,384
1919	8,477	6	723	—	723	9,206	8,608	1,896	—	1,896	—	—	6,712
1920	7,648	3	598	—	598	8,249	7,715	949	—	949	—	—	6,766
1921	7,697	1	534	—	534	8,232	7,817	788	—	788	—	—	7,029
1922	8,145	1	415	—	415	8,561	7,990	754	—	754	—	—	7,236
1923	9,483	2	571	—	571	10,056	9,347	1,037	—	1,037	—	—	8,310
1924	9,149	7	709	—	709	9,865	9,218	767	—	767	—	—	8,451
1925	8,128	9	647	—	647	8,784	8,312	578	—	578	—	—	7,734
1926	7,966	13	472	—	472	8,451	7,978	449	—	449	—	—	7,529
1927	8,430	22	473	—	473	8,925	8,402	344	—	344	—	—	8,058
1928	9,041	14	523	—	523	9,578	8,908	363	—	363	—	—	8,545
1929	8,833	9	670	—	670	9,512	8,891	407	—	407	—	—	8,484
1930	8,482	9	621	—	621	9,106	8,585	339	—	339	—	—	8,246
1931	8,739	4	521	—	521	9,264	8,701	224	—	224	—	—	8,477
1932	8,923	6	563	—	563	9,492	9,001	176	—	176	—	—	8,825
1933	9,234	3	491	—	491	9,728	9,087	202	—	202	—	—	8,885
1934	8,397	2	630	11	641	9,040	8,352	211	—	211	—	—	8,141
1935	5,919	11	688	—	688	6,618	6,291	136	—	136	—	—	6,155
1936	7,474	45	327	—	327	7,846	7,179	118	—	118	—	—	7,061
1937	6,951	80	667	—	667	7,698	7,299	114	—	114	—	—	7,185
1938	7,680	57	399	—	399	8,136	7,706	152	—	152	—	—	7,554
1939	8,660	45	430	—	430	9,135	8,666	192	—	192	—	—	8,474
1940	10,044	6	469	—	469	10,519	9,863	162	—	162	—	—	9,701
1941	9,528	12	656	—	656	10,196	9,063	111	372	483	173	—	9,007
1942	10,876	1	459	74	533	11,410	10,472	66	1,134	1,200	904	—	8,368
1943	13,840	8	488	450	938	14,586	13,616	38	2,075	2,113	1,331	—	10,172
1944	13,304	3/	503	467	970	14,274	13,787	54	1,660	1,714	1,843	—	10,230
1945	10,637	2	316	171	487	11,186	10,758	34	15/839	873	1,287	—	8,598
1946	11,136	3/	14/365	63	428	11,564	11,267	75	15/405	480	295	—	10,492
1947	10,502	3/	272	25	297	10,799	10,281	107	25	132	230	—	9,919
1948	10,055	1	518	—	518	10,574	10,105	85	—	85	180	—	9,840
1949	10,286	3	469	—	469	10,758	10,284	104	6	110	183	—	9,991
1950	10,714	33	474	—	474	11,221	10,722	110	—	110	222	—	10,390
1951	11,481	51	499	—	499	12,031	11,482	136	—	136	489	—	10,857
1952	11,527	71	534	15	549	12,147	11,658	154	—	154	392	—	11,112
1953	10,666	164	466	23	489	10,659	10,332	134	—	134	298	—	9,900
1954	9,870	184	315	12	327	10,381	9,932	105	—	105	278	—	9,549
1955	10,990	175	436	13	449	11,614	11,193	126	—	126	234	—	10,833
1956	11,200	151	415	6	421	11,772	11,492	133	5	138	229	178	11,125
1957	10,424	144	275	5	280	10,848	10,654	121	23	144	213	8	10,297
1958	10,454	193	188	6	194	10,841	10,635	118	—	118	192	—	10,325
1959	11,993	186	206	0	206	12,385	12,121	143	—	143	181	—	11,797
1960	11,614	186	262	2	264	12,064	11,884	137	1	138	183	—	11,573
1961	11,420	187	168	2	170	11,777	11,577	135	4	139	201	99	11,237
1962	11,844	216	1 [illegible]	2	2[illegible]	12,260	12,030	130	2	132	210	126	11,688
1963 13/	12,447	225	2[illegible]	2	230	12,902	12,625	207	1	208	237	104	12,186

Year	Domestic disappearance for food	
	Civilian	
	Per capita 8/	
	Lb.	
	D. Pork (excluding lard)	
1909	67.0	
1910	62.3	
1911	69.0	
1912	66.7	
1913	66.9	
1914	65.1	
1915	66.5	
1916	69.0	
1917	58.9	
1918	61.0	
1919	63.9	
1920	63.5	
1921	64.8	
1922	65.7	
1923	74.2	
1924	74.0	
1925	66.8	
1926	64.1	
1927	67.7	
1928	70.9	
1929	69.6	
1930	67.0	
1931	68.4	
1932	70.7	
1933	70.7	
1934	64.4	
1935	48.4	
1936	55.1	
1937	55.8	
1938	58.2	
1939	64.7	
1940	73.5	
1941	68.4	
1942	63.7	
1943	78.9	
1944	79.5	
1945	66.6	
1946	75.3	
1947	69.6	
1948	67.8	
1949	67.7	
1950	69.2	
1951	71.9	
1952	72.4	
1953	63.5	
1954	60.0	
1955	66.8	
1956	67.3	
1957	61.1	
1958	60.2	
1959	67.6	
1960	64.5	
1961	62.6	
1962	63.6	
1963 13/	65.3	

See footnotes at end of table

Continued -

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Table 38.--Meats: Supply and utilization, 1909-63 1/ - Continued

Year	Supply: Production 2/	Supply: Imports and inshipments 3/	Supply: Beginning stocks 4/: Commercial	Supply: Beginning stocks 4/: USDA	Supply: Beginning stocks 4/: Total	Supply: Total supply	Utilization: Total use 5/	Utilization: Exports and shipments: Commercial 6/	Utilization: Exports and shipments: USDA	Utilization: Exports and shipments: Total	Utilization: Domestic disappearance for food: Military 7/	Utilization: Domestic disappearance for food: Civilian: USDA donations	Utilization: Domestic disappearance for food: Civilian: Total	Utilization: Domestic disappearance for food: Civilian: Per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
						E. Total meat								
1909	14,740	2	---	---	---	14,742	14,742	698	---	698	---	---	14,044	155.2
1910	13,998	3	---	---	---	14,001	14,001	474	---	474	---	---	13,527	146.4
1911	14,869	3	---	---	---	14,872	14,872	608	---	608	---	---	14,264	151.9
1912	14,453	5	---	---	---	14,458	14,458	557	---	557	---	---	13,901	145.9
1913	14,475	45	---	---	---	14,520	14,520	552	---	552	---	---	13,968	143.7
1914	14,103	328	---	---	---	14,431	14,431	554	---	554	---	---	13,877	140.0
1915	14,886	130	---	---	---	15,016	15,016	1,455	---	1,455	---	---	13,561	134.9
1916	15,907	39	574	---	574	16,520	15,716	1,425	---	1,425	---	---	14,291	140.1
1917	15,501	61	804	---	804	16,366	15,440	1,452	---	1,452	---	---	13,988	135.3
1918	17,341	381	926	---	926	18,648	17,577	2,766	---	2,766	---	---	14,811	141.6
1919	16,642	95	1,071	---	1,071	17,808	16,901	2,305	---	2,305	---	---	14,596	138.9
1920	15,334	166	907	---	907	16,407	15,662	1,173	---	1,173	---	---	14,489	136.0
1921	15,178	60	745	---	745	15,983	15,477	938	---	938	---	---	14,539	134.0
1922	16,138	53	506	---	506	16,697	16,006	844	---	844	---	---	15,162	137.7
1923	17,708	40	691	---	691	18,439	17,622	1,130	---	1,130	---	---	16,492	147.3
1924	17,595	46	817	---	817	18,458	17,665	855	---	855	---	---	16,810	147.3
1925	16,598	49	793	---	793	17,440	16,881	661	---	661	---	---	16,220	140.1
1926	16,649	92	559	---	559	17,300	16,721	522	---	522	---	---	16,199	138.0
1927	16,321	167	579	---	579	17,067	16,463	415	---	415	---	---	16,048	134.9
1928	16,248	207	604	---	604	17,059	16,284	424	---	424	---	---	15,860	131.6
1929	16,147	264	775	---	775	17,186	16,456	472	---	472	---	---	15,984	131.2
1930	16,016	140	730	---	730	16,886	16,285	400	---	400	---	---	15,885	129.0
1931	16,456	57	601	---	601	17,114	16,496	284	---	284	---	---	16,212	130.7
1932	16,418	69	618	---	618	17,105	16,568	209	---	209	---	---	16,359	131.1
1933	17,417	107	537	---	537	18,061	17,337	243	---	243	---	---	17,094	136.1
1934	18,839	120	713	11	724	19,683	18,456	269	---	269	---	---	18,187	143.9
1935	14,427	212	834	393	1,227	15,866	15,126	191	---	191	---	---	14,935	117.4
1936	16,761	271	436	304	740	17,772	16,901	174	---	174	---	---	16,727	130.6
1937	15,709	307	871	---	871	16,887	16,424	167	---	167	---	---	16,257	126.2
1938	16,479	257	463	---	463	17,199	16,707	207	---	207	---	---	16,500	127.1
1939	17,534	264	492	---	492	18,290	17,739	246	---	246	---	---	17,493	133.6
1940	19,076	174	551	---	551	19,801	19,033	221	---	221	---	---	18,812	142.4
1941	19,569	269	768	---	768	20,606	19,928	173	373	546	448	---	18,934	143.7
1942	21,912	214	603	75	678	22,804	21,683	104	1,166	1,270	1,962	---	18,451	140.3
1943	24,482	235	636	485	1,121	25,838	24,485	70	2,281	2,351	3,213	---	18,921	146.8
1944	25,178	190	763	590	1,353	26,721	26,021	98	1,818	1,916	4,278	---	19,827	154.2
1945	23,691	130	433	267	700	24,521	23,548	75	16/1,165	1,240	3,568	---	18,740	145.2
1946	22,920	20	651	322	973	23,913	23,433	117	16/1,066	1,183	918	---	21,332	154.1
1947	23,338	64	451	29	480	23,882	23,155	312	29	341	672	---	22,142	155.3
1948	21,300	360	727	---	727	22,387	21,722	138	---	138	464	---	21,120	145.5
1949	21,662	261	665	---	665	22,588	21,963	136	6	142	472	---	21,349	144.6
1950	22,075	384	625	---	625	23,084	22,414	135	---	135	558	---	21,721	144.6
1951	21,898	542	670	---	670	23,110	22,312	157	---	157	1,306	---	20,849	138.0
1952	22,994	506	762	36	798	24,298	23,501	185	---	185	917	---	22,399	146.0
1953	24,688	438	750	47	797	25,923	25,314	167	12/29	196	885	---	24,233	155.3
1954	25,214	418	573	36	609	26,241	25,573	153	12/18	171	789	---	24,613	154.7
1955	26,895	406	637	31	668	27,969	27,313	189	6	195	688	23	26,430	162.3
1956	28,035	363	642	14	656	29,054	28,498	223	34	257	688	208	27,553	166.7
1957	26,859	543	514	42	556	27,958	27,612	182	87	269	614	75	26,729	158.7
1958	25,658	1,143	337	9	346	27,147	26,742	169	---	169	593	---	25,980	151.6
1959	27,319	1,353	397	5	405	29,077	28,586	198	---	198	569	---	27,819	159.5
1960	28,242	1,046	487	4	491	29,781	29,415	195	2	197	555	1	28,663	160.8
1961	28,620	1,325	361	5	366	30,311	29,882	193	6	199	603	146	29,080	160.5
1962	28,980	1,799	424	5	429	31,217	30,771	185	3	188	619	134	29,964	163.1
1963 13/	30,593	2,047	441	5	446	33,086	32,497	262	1	263	644	139	31,590	169.3

1/ Includes products converted to carcass weight equivalent. Edible offals are not part of carcass and are therefore not included. 2/ Includes following slaughter under Emergency Drought Program: Beef, 1,27[illegible] million pounds in 1934, 80 million in 1935, and 1 million in 1936; veal, 161 million pounds in 1934, 9 million in 1935; lamb and mutton, 31 million in 1934. Pork includes 136 million pounds slaughtered under sow and pig purchase program and 14 million pounds under supplemental hog purchase program in 1933 and 159 million in 1934. Total meat produced under Government emergency programs: 1933, 193 million pounds; 1934, 1,060 million pounds; 1935, 69 million pounds; 1936, 1 million pounds. Prior to 1940 data include federally inspected meat production in Hawaii and the Virgin Islands. 3/ For all meats except beef, general imports prior to 1941 and imports for consumption 1964 and thereafter. Beef, imports for consumption 1964 to date. 4/ Cold-storage holdings in public warehouses and packing plants. Product weight as reported by CRS assumed to be equivalent to carcass weight. 5/ Total supply less ending stocks. 6/ Beginning 1941 excludes military shipments and all USDA shipments for lend-lease, UNRRA and other claimants. Exports and shipments of veal are not reported seperately; beginning 1941 estimates obtained as a constant percentage of total beef and veal. Exports and shipments under AID are included. 7/ Total military takings, including those for civilian feeding in occupied areas. Exclude Army transfers of meat to UNRRA, adjusted to year procured. Estimates of military takings are not available prior to 1941. 8/ Beginning 1941, per capita consumption of civilian population only. 9/ Less than 500,000 pounds. 10/ Includes 114 million pounds of beef procured by Army in 1945 and transferred to USDA and UNRRA in 1946. 11/ Includes beef transferred by military agencies to UNRRA: 1945, 167 million pounds; 1946, 74 million pounds. 12/ In 1953 and 1954 respectively, includes 5 and 6 million pounds (carcass weight equivalent) of canned beef and gravy procured by USDA and shipped abroad by CARE. In 1954, includes 3 million pounds (carcass weight) of canned beef and gravy transferred from Section 32 for shipment to Germany. 13/ Preliminary. 14/ Includes 55 million pounds of pork procured by Army in 1945 and transferred to USDA and UNRRA in 1946. 15/ Includes pork transferred by military agencies to UNRRA: 1945, 116 million pounds; 1946, 55 million pounds. 16/ Includes beef and pork transferred by military agencies to UNRRA. See footnotes 11/ and 14/.

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Table 39.—Edible offals: Supply and utilization, 1909-63

Year	Supply				Utilization				
							Domestic food use		
								Civilian	
	Production 1/	Imports and inshipments 2/	Beginning stocks 3/	Total supply	Total use 4/	Exports and shipments 5/	Military	USDA donations	Total	Per capita 6/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	lb.
1909	1,004	---	---	1,004	1,004	---	---	---	1,004	11.1
1910	955	---	---	955	955	---	---	---	955	10.3
1911	1,012	---	---	1,012	1,012	---	---	---	1,012	10.8
1912	983	---	---	983	983	---	---	---	983	10.3
1913	983	---	---	983	983	---	---	---	983	10.1
1914	956	---	---	956	956	---	---	---	956	9.6
1915	1,011	---	---	1,011	1,011	---	---	---	1,011	10.1
1916	1,083	---	---	1,083	1,083	---	---	---	1,083	10.6
1917	1,061	---	---	1,061	1,061	---	---	---	1,061	10.3
1918	1,184	---	56	1,240	1,111	---	---	---	1,111	10.6
1919	1,138	---	129	1,267	1,158	---	---	---	1,158	11.0
1920	1,052	---	109	1,161	1,086	---	---	---	1,086	10.2
1921	1,040	---	75	1,115	1,055	---	---	---	1,055	9.7
1922	1,106	---	60	1,166	1,103	---	---	---	1,103	10.0
1923	1,214	---	63	1,277	1,194	---	---	---	1,194	10.7
1924	1,208	---	83	1,291	1,199	---	---	---	1,199	10.5
1925	1,142	---	92	1,234	1,177	---	---	---	1,177	10.2
1926	1,144	---	57	1,201	1,137	---	---	---	1,137	9.7
1927	1,118	---	64	1,182	1,121	---	---	---	1,121	9.4
1928	1,109	---	61	1,170	1,087	---	---	---	1,087	9.0
1929	1,101	---	83	1,184	1,094	---	---	---	1,094	9.0
1930	1,092	---	90	1,182	1,098	---	---	---	1,098	8.9
1931	1,121	---	84	1,205	1,139	---	---	---	1,139	9.2
1932	1,119	---	66	1,185	1,142	---	---	---	1,142	9.2
1933	1,189	---	43	1,232	1,167	---	---	---	1,167	9.3
1934	1,298	7/	65	1,363	1,237	28	---	---	1,209	9.6
1935	994	7/	126	1,120	1,046	17	---	---	1,029	8.1
1936	1,152	7/	74	1,226	1,094	18	---	---	1,076	8.4
1937	1,083	7/	132	1,215	1,148	14	---	---	1,134	8.8
1938	1,130	7/	67	1,197	1,125	19	---	---	1,106	8.5
1939	1,200	1	72	1,273	1,178	19	---	---	1,159	8.9
1940	1,303	2	95	1,400	1,298	11	---	---	1,287	9.7
1941	1,338	3	102	1,443	1,338	8	---	---	1,330	10.1
1942	1,498	2	105	1,605	1,519	11	7/	---	1,508	11.5
1943	1,669	1	86	1,756	1,619	22	2	---	1,595	12.4
1944	1,740	7/	8/97	1,837	1,800	68	2	---	1,730	13.5
1945	1,637	7/	37	1,674	1,633	3	3	---	1,627	12.6
1946	1,578	7/	41	1,619	1,563	1	7/	---	1,562	11.3
1947	1,615	7/	56	1,671	1,600	9	7/	---	1,591	11.2
1948	1,477	5	71	1,548	1,490	1	7/	---	1,489	10.3
1949	1,495	7	58	1,560	1,498	2	7/	---	1,496	10.1
1950	1,519	6	62	1,586	1,527	3	7/	---	1,524	10.1
1951	1,501	4	59	1,564	1,500	6	7/	---	1,494	9.9
1952	1,577	1	64	1,642	1,573	4	7/	---	1,569	10.2
1953	1,704	1	69	1,774	1,715	29	7/	---	1,686	10.8
1954	1,743	1	59	1,803	1,738	46	7/	---	1,692	10.6
1955	1,853	7/	65	1,918	1,848	70	7/	---	1,778	11.0
1956	1,932	7/	70	2,002	1,943	99	7/	---	1,844	11.2
1957	1,849	7/	59	1,908	1,908	91	7/	---	1,817	10.8
1958	1,756	2	---	1,758	1,758	69	7/	---	1,689	9.8
1959	1,869	2	---	1,861	1,861	91	7/	---	1,770	10.1
1960	1,924	2	---	1,926	1,926	118	7/	---	1,808	10.1
1961	1,946	2	---	1,948	1,948	123	7/	6	1,825	10.1
1962	1,970	3	---	1,973	1,973	124	7/	13	1,849	10.1
1963 9/	2,075	3	---	2,078	2,078	158	7/	11	1,920	10.3

1/ Based on percentage of carcass-weight meat production: Beef, 6.7 percent; veal, 10.7; lamb and mutton, 9.1, and pork excluding lard, 6.7 percent.
2/ Comparable data not available prior to 1934.
3/ Trimmings included prior to 1944. Stocks not reported after 1956; assumed no change in stocks during 1957.
4/ Total supply minus ending stocks.
5/ Exports only beginning 1951. In 1941-47 includes small quantities of sausage ingredients reported in Bureau of Census classification "other meats except canned (including edible animal organs)."
6/ Civilian per capita only, beginning 1941.
7/ Less than 500,000 pounds.
8/ Excludes an estimated allowance of 40 million pounds for trimmings, which were reported in stocks prior to July 1, 1944.
9/ Preliminary.

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Data on offal production are not currently collected. It was necessary to estimate production by average percentage yields per 100 pounds dressed weight of carcass. The factors were based on data for the production of each offal item relative to weight of animals for a number of plants during 1941.

The supply of offal was distributed among exports and shipments, military takings, ending stocks, and civilian consumption. Data on foreign trade were obtained by combining several classes of meats that are mostly offal. As kidneys and livers make up the bulk of foreign trade in offal, any error due to classification is slight. Comparable data on imports and exports are not available before 1934.

Cold-storage stocks of edible offal are no longer reported separately. Until December 31, 1956, trimmings were included in offal stocks. From 1957 on, they have been included with the individual meats, except for pork whose offal is reported as miscellaneous freezer stocks.

Fishery Products 9/

Production

Production data on fish and shellfish are assembled by the Bureau of Commercial Fisheries (table 40). State records of fishery marketing specialists are the primary sources of information on the annual commercial catch. When complete data are not available from these sources, visits are made to fishermen, wholesale dealers, and manufacturers of fishery products.

So far as funds allow, representatives of the Bureau of Commercial Fisheries have made annual canvasses of all commercial fishery operations of the oceans and bays, and of the coastal areas as far inland as commercial fisheries are of significance; of the fisheries on the Mississippi River and all its tributaries where commercial fishing activities are conducted; and the Great Lakes, the adjacent bays, the international lakes of northern Minnesota, and the rivers that have outlets in these waters. The only years for which a complete survey of the entire country was made were 1908, 1931, 1950, and annually from 1954 to date, except for 1961 when only a partial survey of the Mississippi River and its tributaries was made. Data are available on the total catch in the United States for all years following 1920. For earlier years in which no catch or production data were reported, consumption estimates were based on trends.

Annual production data for fish used fresh or frozen from 1929 to date have been developed by the Bureau of Commercial Fisheries on the basis of their surveys of the fish catch. Annual production data for packaged fish are reasonably complete, but the output of packaged shellfish was estimated for the years between 1940 and 1950 because no surveys were made for this item.

Data relating to production of canned fishery products and industrial products have been obtained annually since 1921 by Bureau or State employees from each U. S. processing plant. 10/ Reports normally are obtained by mail but personal visits are made to nonrespondents.

Data on commercial production of frozen fish and shellfish and cold-storage holdings are collected each month directly from warehousemen and fish processors by the Bureau o. Commercial Fisheries.

9/ Prepared by the staff of the Bureau of Commercial Fisheries, Fish and Wildlife Service, U. S. Department of the Interior, and based in part on the work of the late Harry Sherr, Economic Research Service, U. S. Department of Agriculture.

10/ Data exclude quantities of nonfish items such as potatoes, noodles, and rice in canned clam chowder, cod fish cakes, tuna and noodles, and the pack of clam broth. The gross rather than the net drained weight of canned clam, oyster, mussel, and conch meats were used in the calculations.

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Table 40.—Commercial fishery products (edible weight): Supply and utilization, 1929-63

Year	Supply: Production 1/	Supply: Imports and inship-ments 1/	Supply: Beginning stocks: Commercial 2/	Supply: Beginning stocks: USDA	Supply: Beginning stocks: Total	Supply: Total supply	Utilization: Total use 3/	Utilization: Exports and shipments 1/: Commercial	Exports and shipments 1/: USDA	Exports and shipments 1/: Total	Domestic disappearance for food: Military	Domestic disappearance for food: Civilian 4/: USDA donations	Civilian 4/: Total	Civilian 4/: Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
						A. Fresh and frozen 5/								
1929	784	61	56	—	56	901	846	10	—	10	—	—	836	6.9
1930	650	73	55	—	55	778	726	8	—	8	—	—	718	5.8
1931	535	73	52	—	52	660	616	8	—	8	—	—	608	4.9
1932	477	55	44	—	44	576	544	7	—	7	—	—	537	4.3
1933	470	62	32	—	32	564	530	8	—	8	—	—	522	4.2
1934	502	63	34	—	34	599	553	9	—	9	—	—	544	4.3
1935	581	76	46	—	46	703	656	7	—	7	—	—	649	5.1
1936	596	89	47	—	47	732	668	8	—	8	—	—	660	5.2
1937	615	99	64	—	64	778	725	8	—	8	—	—	717	5.6
1938	609	84	53	—	53	746	689	7	—	7	—	—	682	5.2
1939	611	96	57	—	57	764	705	6	—	6	—	—	699	5.3
1940	661	96	59	—	59	816	753	3	—	3	—	—	750	5.7
1941	744	92	63	—	63	899	828	3	—	3	—	—	825	6.3
1942	613	86	71	—	71	770	709	2	—	2	6/20	—	687	5.2
1943	665	98	61	—	61	824	767	3	—	3	55	—	709	5.5
1944	679	110	57	—	57	846	779	4	—	4	64	—	711	5.5
1945	780	152	67	—	67	999	909	4	—	4	54	—	851	6.6
1946	705	151	90	—	90	946	848	4	—	4	26	—	818	5.9
1947	681	147	98	—	98	926	840	5	—	5	15	—	820	5.8
1948	713	191	86	—	86	990	889	5	—	5	16	—	868	6.0
1949	681	198	101	—	101	980	880	5	—	5	18	—	857	5.8
1950	711	259	100	—	100	1,070	968	3	—	3	18	—	947	6.3
1951	717	277	102	—	102	1,096	986	4	—	4	32	—	950	6.3
1952	702	307	110	—	110	1,119	981	3	—	3	32	—	946	6.2
1953	728	280	138	—	138	1,146	1,027	3	—	3	27	—	997	6.4
1954	693	350	119	—	119	1,162	1,021	6	—	6	25	—	990	6.2
1955	699	287	141	—	141	1,127	990	10	—	10	25	—	955	5.9
1956	683	306	137	—	137	1,126	976	10	—	10	27	—	939	5.7
1957	636	320	150	—	150	1,106	966	10	—	10	23	—	933	5.5
1958	679	347	140	—	140	1,166	1,008	12	—	12	23	—	973	5.7
1959	629	440	158	—	158	1,227	1,063	10	—	10	23	—	1,030	5.9
1960	678	388	164	—	164	1,230	1,044	11	—	11	23	—	1,010	5.7
1961	616	453	186	—	186	1,255	1,102	13	—	13	23	—	1,066	5.9
1962	626	511	153	—	153	1,290	1,111	18	—	18	20	—	1,073	5.8
1963 7/	631	518	179	—	179	1,328	1,127	24	—	24	20	—	1,083	5.7
						B. Canned 8/								
1929	—	—	—	—	—	—	—	—	—	—	—	—	—	3.9
1930	—	—	—	—	—	—	—	—	—	—	—	—	—	3.4
1931	—	—	—	—	—	—	—	—	—	—	—	—	—	3.2
1932	—	—	—	—	—	—	—	—	—	—	—	—	—	3.4
1933	—	—	—	—	—	—	—	—	—	—	—	—	—	3.9
1934	—	—	—	—	—	—	—	—	—	—	—	—	—	4.2
1935	—	—	—	—	—	—	—	—	—	—	—	—	—	4.7
1936	755	76	203	—	203	1,032	830	89	—	89	—	—	741	5.8
1937	692	79	202	—	202	973	775	97	—	97	—	—	678	5.3
1938	621	55	198	—	198	874	717	96	—	96	—	—	621	4.8
1939	655	75	157	—	157	887	727	107	—	107	—	—	620	4.7
1940	636	44	160	—	160	840	746	133	—	133	—	—	613	4.6
1941	—	—	—	—	—	—	—	—	—	—	—	—	—	4.2
1942	—	—	—	—	—	—	—	—	—	—	—	—	—	2.9
1943	—	—	—	—	—	—	—	—	—	—	—	—	—	1.8
1944	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6
1945	—	—	—	—	—	—	—	—	—	—	—	—	—	2.6
1946	687	52	67	2/88	155	894	778	54	133	187	5	—	586	4.2
1947	689	41	87	29	116	846	754	106	89	195	10	—	549	3.8
1948	707	56	89	3	92	855	746	80	7	87	19	—	640	4.4
1949	755	56	109	—	109	920	804	137	—	137	9	—	658	4.5
1950	831	104	116	—	116	1,051	858	114	—	114	7	—	737	4.9
1951	672	77	193	—	193	942	826	156	—	156	16	—	654	4.3
1952	619	102	116	—	116	837	720	55	—	55	11	—	654	4.3
1953	579	143	117	—	117	839	738	58	—	58	4	—	676	4.3
1954	650	153	101	—	101	904	735	49	—	49	5	—	681	4.3
1955	562	126	169	—	169	857	722	89	—	89	6	—	627	3.9
1956	632	137	135	—	135	904	744	82	—	82	6	—	656	4.0
1957	609	147	160	—	160	916	755	68	—	68	6	—	681	4.0
1958	696	165	161	—	161	1,022	785	40	—	40	9	—	736	4.3
1959	586	184	237	—	237	1,007	847	67	—	67	6	—	774	4.4
1960	622	155	160	—	160	937	771	47	—	47	7	—	717	4.0
1961	669	163	166	—	166	998	817	29	—	29	9	—	779	4.3
1962	716	169	181	—	181	1,066	833	37	—	37	9	—	787	4.3
1963 7/	676	155	233	—	233	1,064	859	37	—	37	7	—	815	4.4

See footnotes at end of table.

Continued -

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Table 40.—Commercial fishery products (edible weight): Supply and utilization, 1929-63 -Continued

Year	Supply: Production 1/	Supply: Imports and inshipments 1/	Supply: Beginning stocks: Commercial 2/	Supply: Beginning stocks: USDA	Supply: Beginning stocks: Total	Supply: Total supply	Utilization: Total use 3/	Utilization: Exports and shipments 1/: Commercial	Utilization: Exports and shipments 1/: USDA	Utilization: Exports and shipments 1/: Total	Utilization: Domestic disappearance for food: Military	Utilization: Domestic disappearance for food: Civilian 4/: USDA donations	Utilization: Domestic disappearance for food: Civilian 4/: Total	Utilization: Domestic disappearance for food: Civilian 4/: Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
						C. Cured 10/								
1929	83	55	24	---	24	162	140	12	---	12	---	---	128	1.1
1930	90	42	22	---	22	154	136	13	---	13	---	---	123	1.0
1931	69	38	18	---	18	125	104	12	---	12	---	---	92	.7
1932	77	22	21	---	21	120	104	11	---	11	---	---	93	.7
1933	64	16	16	---	16	96	80	7	---	7	---	---	73	.6
1934	70	21	16	---	16	107	94	7	---	7	---	---	87	.7
1935	77	22	13	---	13	112	96	8	---	8	---	---	88	.7
1936	71	32	16	---	16	119	93	8	---	8	---	---	85	.7
1937	75	40	26	---	26	141	125	8	---	8	---	---	117	.9
1938	73	39	16	---	16	128	112	6	---	6	---	---	106	.8
1939	73	31	16	---	16	120	99	8	---	8	---	---	91	.7
1940	71	24	21	---	21	116	95	7	---	7	---	---	88	.7
1941	71	24	21	---	21	116	97	8	---	8	---	---	89	.7
1942	72	22	19	---	19	113	97	5	3	8	4	---	85	.6
1943	73	28	16	11/	16	117	104	4	20	24	---	---	80	.6
1944	75	32	11	2	13	120	103	4	25	29	1	---	73	.6
1945	77	33	14	3	17	127	108	4	7	11	13	---	84	.7
1946	74	37	19	11/	19	130	106	8	11/	8	---	---	98	.7
1947	72	25	24	---	24	121	99	6	---	6	---	---	93	.7
1948	70	26	22	---	22	118	103	4	---	4	---	---	99	.7
1949	69	29	15	---	15	113	93	2	---	2	---	---	91	.6
1950	70	29	20	---	20	119	98	2	---	2	---	---	96	.6
1951	68	30	21	---	21	119	96	1	---	1	---	---	95	.6
1952	70	30	23	---	23	123	102	1	---	1	---	---	101	.7
1953	62	40	21	---	21	123	105	1	---	1	---	---	104	.7
1954	62	41	18	---	18	121	108	1	---	1	---	---	107	.7
1955	68	48	13	---	13	129	111	2	---	2	---	---	109	.7
1956	67	49	18	---	18	134	120	1	---	1	---	---	119	.7
1957	67	42	14	---	14	123	111	1	---	1	---	---	110	.7
1958	64	44	12	---	12	120	105	1	---	1	---	---	104	.6
1959	63	41	15	---	15	119	103	1	---	1	---	---	102	.6
1960	59	43	16	---	16	118	105	1	---	1	---	---	104	.6
1961	62	40	13	---	13	115	98	2	---	2	---	---	96	.5
1962	60	35	17	---	17	112	98	1	---	1	---	---	97	.5
1963 7/	60	36	14	---	14	112	99	1	---	1	---	---	98	.5
						D. Total fish, fresh and processed								
1929	---	---	---	---	---	---	---	---	---	---	---	---	---	11.9
1930	---	---	---	---	---	---	---	---	---	---	---	---	---	10.2
1931	---	---	---	---	---	---	---	---	---	---	---	---	---	8.8
1932	---	---	---	---	---	---	---	---	---	---	---	---	---	8.4
1933	---	---	---	---	---	---	---	---	---	---	---	---	---	7
1934	---	---	---	---	---	---	---	---	---	---	---	---	---	9.2
1935	---	---	---	---	---	---	---	---	---	---	---	---	---	10.5
1936	1,420	197	266	---	266	1,883	1,591	105	---	105	---	---	1,486	11.7
1937	1,382	218	292	---	292	1,892	1,625	113	---	113	---	---	1,512	11.8
1938	1,303	178	267	---	267	1,748	1,518	109	---	109	---	---	1,409	10.8
1939	1,339	202	230	---	230	1,771	1,531	121	---	121	---	---	1,410	10.7
1940	---	---	---	---	---	---	---	---	---	---	---	---	---	11.0
1941	---	---	---	---	---	---	---	---	---	---	---	---	---	11.2
1942	---	---	---	---	---	---	---	---	---	---	---	---	---	8.7
1943	---	---	---	---	---	---	---	---	---	---	---	---	---	7.9
1944	---	---	---	---	---	---	---	---	---	---	---	---	---	8.7
1945	---	---	---	---	---	---	---	---	---	---	---	---	---	9.9
1946	1,466	240	176	9/88	264	1,970	1,732	66	133	199	31	---	1,502	10.8
1947	1,442	213	209	29	238	1,893	1,693	117	89	206	25	---	1,462	10.3
1948	1,490	273	197	3	200	1,963	1,738	89	7	96	35	---	1,607	11.1
1949	1,505	283	225	---	225	2,013	1,777	144	---	144	27	---	1,606	10.9
1950	1,612	392	236	---	236	2,240	1,924	119	---	119	25	---	1,780	11.8
1951	1,457	384	316	---	316	2,157	1,908	161	---	161	48	---	1,699	11.2
1952	1,391	439	249	---	249	2,079	1,803	59	---	59	43	---	1,701	11.2
1953	1,369	463	276	---	276	2,108	1,870	62	---	62	31	---	1,777	11.4
1954	1,405	544	238	---	238	2,187	1,864	56	---	56	30	---	1,778	11.2
1955	1,329	461	323	---	323	2,113	1,823	101	---	101	31	---	1,691	10.5
1956	1,382	492	290	---	290	2,164	1,840	93	---	93	33	---	1,714	10.4
1957	1,312	509	324	---	324	2,145	1,832	79	---	79	29	---	1,724	10.2
1958	1,439	556	313	---	313	2,308	1,898	53	---	53	32	---	1,813	10.6
1959	1,[illegible]	665	410	---	410	2,353	2,013	78	---	78	29	---	1,906	10.9
1960	1,359	586	340	---	340	2,285	1,920	59	---	59	30	---	1,831	10.3
1961	1,347	656	365	---	365	2,368	2,017	44	---	44	32	---	1,941	10.7
1962	1,402	715	351	---	351	2,468	2,042	56	---	56	29	---	1,957	10.6
1963 7/	1,369	709	426	---	426	2,504	2,085	62	---	62	27	---	1,996	10.6

See footnotes at end of table

Continued -

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Table 40.--Commercial fishery products (edible weight): Supply and utilization, 1929-63 -Continued

1/ Fresh and frozen includes production in Alaska and Hawaii with the 48 States beginning 1960; for canned, Alaskan production was included during all years, Puerto Rican beginning in 1953, American Samoan beginning in 1954, and Hawaiian beginning in 1952; for cured, Alaskan production was included beginning in 1955 and Hawaiian beginning in 1960. In earlier years, inshipments from U. S. Territories were included with imports and outshipments with exports.

2/ Fresh and frozen fish stocks are estimated on a January 1 basis prior to 1943, when actual January 1 stocks were reported. Canned fish stock data for 1929-35 include only salmon at the producer level. Data for the years 1936-40 and 1946 to date include reported or estimated stocks for salmon, tuna, sardines, and mackerel. Since 1956, stocks of Maine sardines have included those at the wholesale level.

3/ Total supply less ending stocks.

4/ Civilian only, 1942 to date.

5/ Edible weight of finfish equal to 45 percent of liveweight; shellfish reported on meat-equivalent basis.

6/ Estimated.

7/ Preliminary.

8/ Excludes the nonfish content of canned fishery products.

9/ Includes about 1 million pounds of canned fish transferred to UNRRA by U. S. military agencies.

10/ Excludes intermediate products which may be in the final stage of processing, including mild cured salmon and green salted cod, haddock, hake, pollock, and cusk.

11/ Less than 0.5 million pounds.

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Beginning with 1955, production of cured products in Alaska was included with U.S. production. In the case of canned fishery products, estimates of production, in Alaska have been included with those of the 48 States through the entire period. But Alaskan production of fresh and frozen fish was excluded from that of the 48 States through 1959. Comparable estimates are not possible until 1960 for the small receipts from Hawaii because production in Hawaii was not reported earlier.

Stocks

Monthly reports on cold-storage holdings of fresh and frozen fish have been available since 1917. Before 1943, stocks were reported on a midmonth basis. January 1 carryover for 1930-42 was assumed to be the midpoint of the stocks on January 15 and the holdings on the preceding December 15.

Year-end stocks of frozen fish were adjusted to eliminate holdings in Alaska through 1959, and quantities used for bait or animal food. This was done to obtain stocks held in the 48 States for human consumption. Separate data on cold-storage holdings in Alaska were not available prior to 1942, so the information for 1930-41 was reduced by 2 percent--the average relationship between 1942-47. A progressive allowance from less than 1 to almost 2 percent was made for animal food use between 1930-41. U. S. cold-storage holdings of frozen fish for human consumption were converted to an edible basis.

Incomplete data are available on stocks of canned fish. The only data on stocks in both packers' and wholesalers' hands--those on "Maine sardines"--have been available since 1955. Data on stocks of canned salmon and tuna in packers' hands are available from industry sources for some years prior to 1958. Since then, estimates of mackerel, Pacific sardines, salmon, and tuna stocks in packers' hands have been made by Bureau employees on the basis of information obtained from representative packers. These data were used in estimating per capita consumption of canned fish and shellfish. The Bureau of the Census has provided information on stocks of canned Maine sardines held by wholesalers since 1955. For some prewar years, year-end carryover stocks of wholesale distributors were unusually large. Distributors' stocks in 1942-45 undoubtedly were insignificant. In the years following World War II, they were estimated to be lower than prior to the war.

Stocks of cured fish, as indicated in table 40c, refer to reported commercial cold-storage holdings of salted and smoked fishery products. Information on cold-storage holdings of cured fish has been inadequate throughout the period. It was not possible to separate the quantities subject to reprocessing before sale from finished products. Beginning in 1941, the commodity classification used in reporting monthly cold-storage holdings of cured fish was expanded. It became possible at that time to identify some of the cured-fish stocks that were available for direct movement into distribution channels.

Foreign Trade

Early data on foreign trade, including shipments between the United States and U. S. Territories of fresh, frozen, and cured fishery products, were obtained from Foreign Commerce and Navigation of the United States (74) and from official records of the Bureau of the Census. Beginning with April 1948, reports on shipments between the 48 States and Alaska and Hawaii were discontinued. From April 1948 through 1954, annual receipts of cured fishery products from Alaska were estimated on the basis of Alaskan production.

Imports of fresh, frozen, and cured fishery products were adjusted to eliminate possible duplication with reported domestic production of canned and cured fishery products. The adjustment was made on the basis of the major use of the individual species after arrival in the United States. For example, most of the fresh and frozen tuna imported into the United States is subsequently canned and is therefore reported as production of canned fish. In estimating exports of fishery products, it was necessary to

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exclude one minor commodity group (fish not elsewhere specified) because of the impossibility of separating the data into fresh or frozen, canned, and cured products.

Consumption

Data on supplies and distribution of fishery products were converted to an edible-weight basis using factors developed by specialists of the Bureau of Commercial Fisheries and the United States Tariff Commission (table 40). For many individual species of fresh or processed fish, separate conversion factors were used, depending on (1) the basis on which production estimates were reported, and (2) the yield factors obtained from laboratory tests and from fish processors' experiences. But, in general, the following procedure was followed:

(1) Canned, cured, and fresh and frozen packaged finfish were assumed to be 100-percent edible;

(2) Fresh and frozen unpackaged finfish (liveweight basis) were assumed 45-percent edible;

(3) The shellfish were assumed 100-percent edible: Data on mollusks (such as clams and oysters) were reported on a meat-equivalent basis; data for crustaceans (such as crabs and lobsters) were converted to the same basis.

A detailed analysis of the supply and utilization of fish for human consumption in the United States covering 1930-47 was prepared in 1948 by BAE, in cooperation with specialists of both the Bureau of Commercial Fisheries and the United States Tariff Commission (63). The statistical series have been continued by the Bureau of Commercial Fisheries.

Estimates of U. S. civilian consumption of cured fish from 1929 through 1952 were derived from production information which was relatively complete only for 1929-31, 1937-40, and 1950. Surveys by the Bureau of Commercial Fisheries indicated the quantity of cured fish manufactured in this country during those years. For the intervening years and after 1950, rough approximations of annual production were derived from estimates of fish processed from the domestic catch and from imports of cured fish for subsequent reprocessing in this country.

Data on purchases of fishery products by military agencies are available for each year beginning with 1943. Information for 1942 was estimated, using fragmentary data. No purchase data are available for years prior to 1942, but they probably were relatively small.

Poultry and Eggs

Production and consumption estimates include commercial broilers, other chickens, eggs, and turkeys. Beginning in 1960, U. S. totals include Alaska and Hawaii, although official estimates for these two States did not start until a year later. The supply-utilization tables do not include other species of poultry. Census data reveal that they represented only about 1 percent of all poultry in 1959. To estimate total U. S. production of chickens and eggs from 1909 through 1954, 10 percent of the farm estimate for each year was used as an estimate of nonfarm output of both chickens (excluding broilers) and eggs, based upon unpublished census data for sample town holdings in 1930 and a special survey made in 1948. Analyses of the 1954 Census of Agriculture and other data suggest that nonfarm production had declined greatly by 1954; the trend has continued. Therefore, beginning in 1955, the percentage allowance for nonfarm production was reduced 1 percentage point per year until 1964 when it was discontinued. Nonfarm production of turkeys has always been insignificant; no allowance is made for it (tables 41-43).

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Table 41.—Chicken: Supply and utilization, 1909-63

Year	Supply: Production 1/	Supply: Imports and inshipments	Supply: Beginning stocks 2/: Commercial	Supply: Beginning stocks 2/: USDA	Supply: Beginning stocks 2/: Total	Supply: Total supply	Utilization: Total use 3/	Utilization: Exports and shipments: Commercial 4/	Utilization: Exports and shipments: USDA 5/	Utilization: Exports and shipments: Total	Utilization: Domestic disappearance: Civilian: Military 6/	Utilization: Domestic disappearance: Civilian: USDA donations	Utilization: Domestic disappearance: Civilian: Total	Utilization: Domestic disappearance: Civilian: Per capita 7/: Dressed weight 8/	Utilization: Domestic disappearance: Civilian: Per capita 7/: Ready-to-cook 9/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.	Lb.
						Dressed-weight basis 8/									
1909	1,774	---	---	---	---	1,774	1,774	---	---	---	---	---	1,774	19.6	14.7
1910	1,904	1	---	---	---	1,905	1,905	---	---	---	---	---	1,905	20.6	15.5
1911	1,955	1	---	---	---	1,956	1,956	---	---	---	---	---	1,956	20.8	15.6
1912	1,896	1	---	---	---	1,897	1,897	---	---	---	---	---	1,897	19.9	14.9
1913	1,885	1	---	---	---	1,886	1,886	---	---	---	---	---	1,886	19.4	14.5
1914	1,907	4	---	---	---	1,911	1,911	---	---	---	---	---	1,911	19.3	14.5
1915	1,928	3	---	---	---	1,931	1,931	---	---	---	---	---	1,931	19.2	14.4
1916	1,878	2	---	---	---	1,880	1,880	---	---	---	---	---	1,880	18.4	13.8
1917	1,857	2	29	---	29	1,888	1,828	---	---	---	---	---	1,828	17.7	13.3
1918	1,896	1	60	---	60	1,957	1,857	---	---	---	---	---	1,857	17.8	13.3
1919	1,976	2	100	---	100	2,078	1,996	---	---	---	---	---	1,996	19.0	14.2
1920	1,932	4	82	---	82	2018	1,945	---	---	---	---	---	1,945	18.3	13.7
1921	1,952	6	73	---	73	2,031	1,935	---	---	---	---	---	1,935	17.8	13.4
1922	2,076	4	96	---	96	2,176	2,085	6	---	6	---	---	2,079	18.9	14.2
1923	2,172	3	91	---	91	2,266	2,183	6	---	6	---	---	2,177	19.4	14.6
1924	2,126	4	83	---	83	2,213	2,095	5	---	5	---	---	2,090	18.3	13.7
1925	2,192	5	118	---	118	2,315	2,210	6	---	6	---	---	2,204	19.0	14.3
1926	2,252	8	105	---	105	2,365	2,231	4	---	4	---	---	2,227	19.0	14.2
1927	2,383	6	134	---	134	2,523	2,415	5	---	5	---	---	2,410	20.3	15.2
1928	2,333	7	108	---	108	2,448	2,349	4	---	4	---	---	2,345	19.5	14.6
1929	2,354	7	99	---	99	2,460	2,329	3	---	3	---	---	2,326	19.1	14.3
1930	2,540	2	131	---	131	2,673	2,573	3	---	3	---	---	2,570	20.9	15.7
1931	2,339	1	100	---	100	2,440	2,334	3	---	3	---	---	2,331	18.8	14.1
1932	2,378	1	106	---	106	2,485	2,388	1	---	1	---	---	2,387	19.1	14.3
1933	2,480	---	93	---	93	2,573	2,470	2	---	2	---	---	2,468	19.6	14.7
1934	2,288	1	103	---	103	2,392	2,282	2	---	2	---	---	2,280	18.0	13.5
1935	2,198	1	110	---	110	2,309	2,222	2	---	2	---	---	2,220	17.5	13.1
1936	2,392	2	87	---	87	2,481	2,333	1	---	1	---	---	2,332	18.2	13.7
1937	2,273	5	148	---	148	2,426	2,334	2	---	2	---	---	2,332	18.1	13.6
1938	2,213	2	92	---	92	2,307	2,197	2	---	2	---	---	2,195	16.9	12.7
1939	2,458	1	110	---	110	2,569	2,460	3	---	3	---	---	2,457	18.8	14.1
1940	2,513	2	109	---	109	2,624	2,484	2	---	2	---	---	2,482	18.8	14.1
1941	2,788	2	140	---	140	2,930	2,769	3	---	3	52	---	2,714	20.6	15.4
1942	3,241	3	161	---	161	3,405	3,256	2	22	24	135	---	3,097	23.6	17.7
1943	4,135	2	149	---	149	4,286	4,108	1	---	1	148	---	3,959	30.7	23.0
1944	3,903	22	178	---	178	4,103	3,969	7	1	8	470	---	3,491	27.1	20.4
1945	4,154	22	134	---	134	4,310	4,020	12	4	16	278	---	3,726	28.9	21.6
1946	3,639	---	290	---	10/ 290	3,929	3,763	24	11/ 57	81	100	---	3,582	25.9	19.4
1947	3,479	12	166	---	166	3,657	3,437	23	---	23	68	---	3,346	23.5	---
1948	3,288	36	220	---	220	3,544	3,437	12	---	12	51	---	3,374	23.2	---
1949	3,830	15	107	---	107	3,952	3,791	13	---	13	54	---	3,724	25.2	---
						Ready-to-cook basis									
1947	2,706	12	166	---	166	2,884	2,664	23	---	23	54	---	2,587	---	18.1
1948	2,563	36	220	---	220	2,819	2,712	12	---	12	40	---	2,660	---	18.3
1949	2,991	15	107	---	107	3,113	2,952	13	---	13	43	---	2,896	---	19.6
1950	3,174	5	161	---	161	3,340	3,177	15	---	15	65	---	3,097	---	20.6
1951	3,433	1	163	---	163	3,597	3,410	29	---	29	106	---	3,275	---	21.7
1952	3,443	3	187	---	187	3,633	3,510	21	---	21	105	---	3,384	---	22.1
1953	3,567	---	123	---	123	3,690	3,545	32	---	32	89	---	3,424	---	21.9
1954	3,743	---	145	---	145	3,888	3,749	34	---	34	86	---	3,629	---	22.8
1955	3,572	1	139	---	139	3,712	3,587	46	---	46	85	---	3,456	---	21.3
1956	4,217	---	125	---	125	4,342	4,178	54	4	58	81	---	4,039	---	24.4
1957	4,404	---	164	---	164	4,568	4,434	58	---	58	80	---	4,296	---	25.5
1958	5,005	1	134	---	134	5,140	4,961	61	---	61	73	---	4,827	---	28.1
1959	5,230	1	179	---	179	5,410	5,249	133	9	142	69	---	5,038	---	28.9
1960	5,233	---	161	---	161	5,394	5,264	181	1	182	74	4	5,008	---	28.1
1961	5,833	---	130	---	130	5,963	5,803	246	1	247	79	33	5,477	---	30.2
1962	5,840	---	160	---	160	6,000	5,876	258	4	262	98	42	5,516	---	30.0
1963 12/	6,078	---	124	---	124	6,202	6,067	215	11	226	84	55	5,757	---	30.9

1/ Includes chickens, other than commercial broilers, sold from and consumed on farms where produced, plus nonfarm production estimated at 10 percent of farm output in 1909-54. Beginning in 1955, this percentage adjustment was reduced 1 point annually, reaching zero in 1964. Total output in 1934 and later years also includes estimated production of commercial broilers. The factor for converting from liveweight to ready-to-cook weight was increased gradually from 68.48 percent in 1947 to the current level of 72 percent in 1958. In 1909-46, dressed weight was 88 percent of reported liveweight. 2/ Prior to 1933, stocks include all poultry other than turkey; beginning in 1933, ducks are also excluded. 3/ Total supply minus ending stocks. 4/ Includes exports of turkey through 1957, dressed weight or ready-to-cook equivalents. 5/ Exports under P. L. 480 and USDA donations to Territories beginning in 1955. 6/ Includes USDA donations to military and military feeding of civilians in occupied territories. 7/ Civilian per capita consumption beginning 1941. 8/ Excluding blood and feathers only. 9/ Including giblets. Estimated at 75 percent of dressed weight in 1909-46. 10/ Includes 57 million pounds (14 million pounds canned) transferred to UNRRA in 1946. 11/ Adjusted for transfer of 57 million pounds of Army stocks to UNRRA. 12/ Preliminary.

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Table 42.--Turkey: Supply and utilization 1929-63

Year	Supply: Production 1/	Supply: Imports and inshipments	Supply: Beginning stocks 2/: Commercial	Supply: Beginning stocks 2/: USDA	Supply: Beginning stocks 2/: Total	Supply: Total supply	Utilization: Total use 3/	Utilization: Exports and shipments 4/: Commercial	Utilization: Exports and shipments 4/: USDA	Utilization: Exports and shipments 4/: Total	Utilization: Domestic disappearance: Military 5/	Utilization: Domestic disappearance: Civilian: USDA donations	Utilization: Domestic disappearance: Civilian: Total	Utilization: Domestic disappearance: Civilian: Per capita 6/: Dressed weight 7/	Utilization: Domestic disappearance: Civilian: Per capita 6/: Ready-to-cook equivalent 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.	Lb.
							Dressed-weight basis								
1929	213	---	10	---	10	223	213	---	---	---	---	---	213	1.7	1.4
1930	216	1	10	---	10	227	222	---	---	---	---	---	222	1.8	1.5
1931	214	5	5	---	5	224	214	---	---	---	---	---	214	1.7	1.4
1932	264	1	10	---	10	275	260	---	---	---	---	---	260	2.1	1.7
1933	298	---	15	---	15	313	297	---	---	---	---	---	297	2.4	2.0
1934	284	---	16	---	16	300	281	---	---	---	---	---	281	2.2	1.8
1935	267	---	19	---	19	286	269	---	---	---	---	---	269	2.1	1.7
1936	361	1	17	---	17	379	344	---	---	---	---	---	344	2.7	2.2
1937	346	---	35	---	35	381	355	---	---	---	---	---	355	2.8	2.3
1938	355	---	26	---	26	381	358	---	---	---	---	---	358	2.8	2.3
1939	422	---	23	---	23	445	393	---	---	---	---	---	393	3.0	2.5
1940	476	---	52	---	52	528	467	---	---	---	---	---	467	3.5	2.9
1941	461	1	61	---	61	523	473	---	---	---	8	---	465	3.5	2.9
1942	487	1	50	---	50	538	502	---	5	5	18	---	479	3.6	3.0
1943	452	3	36	---	36	491	472	---	---	---	47	---	425	3.3	2.7
1944	535	5	19	---	19	559	522	---	2	2	100	---	420	3.3	2.7
1945	662	4	37	---	37	703	600	---	1	1	55	---	544	4.2	3.5
1946	684	---	103	---	103	787	659	---	---	---	30	---	629	4.5	3.7
1947	586	2	128	---	128	718	635	---	---	---	31	---	604	4.2	---
1948	510	7	83	---	83	600	549	---	---	---	16	---	533	3.7	---
1949	691	3	51	---	51	745	618	---	---	---	16	---	602	4.1	---
							Ready-to-cook basis								
1947	485	2	128	---	128	615	532	---	---	---	25	---	507	---	3.6
1948	420	7	83	---	83	510	459	---	---	---	13	---	446	---	3.1
1949	569	3	51	---	51	623	496	---	---	---	13	---	483	---	3.3
1950	615	---	118	9	127	742	632	---	---	---	20	14	612	---	4.1
1951	703	---	110	---	110	813	706	---	---	---	35	---	671	---	4.4
1952	795	---	107	---	107	902	755	---	---	---	41	20	714	---	4.7
1953	758	---	147	---	147	905	783	---	---	---	42	28	741	---	4.8
1954	870	---	122	---	122	992	871	---	---	---	30	---	841	---	5.3
1955	818	---	121	---	121	939	844	---	---	---	26	---	818	---	5.0
1956	957	---	95	---	95	1,052	890	---	---	---	30	20	860	---	5.2
1957	1,034	---	162	---	162	1,196	1,019	---	---	---	29	5	990	---	5.9
1958	1,038	---	177	---	177	1,215	1,053	5	1	6	32	20	1,015	---	5.9
1959	1,123	---	162	---	162	1,285	1,136	12	---	12	32	23	1,092	---	6.3
1960	1,162	---	149	---	149	1,311	1,151	24	---	24	31	20	1,096	---	6.2
1961	1,506	---	160	---	160	1,666	1,403	28	---	28	29	50	1,346	---	7.4
1962	1,304	---	263	---	263	1,567	1,364	37	---	37	34	43	1,293	---	7.0
1963 9/	1,341	---	203	---	203	1,544	1,327	31	---	31	40	48	1,256	---	6.7

1/ Includes the quantity sold from and consumed on farms where produced. The factor for converting from liveweight to ready-to-cook weight was increased gradually from 75 percent in 1947-55 to the current level of 80 percent in 1961. In 1929-49 dressed weight was 91 percent of reported liveweight. 2/ Stock data in terms of product weight as reported. 3/ Total supply less ending stocks. 4/ Exports prior to 1958 were negligible and data were not reported separately from chicken. 5/ Includes USDA donations to military and military feeding of civilians in occupied territories. 6/ Civilian consumption only beginning 1941. 7/ Excluding blood and feathers only. 8/ Includes giblets. Estimated at 82.4 percent of dressed weight in 1929-46. 9/ Preliminary.

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Table 43.--Eggs: Supply and utilization, 1909-63

Year	Supply					Utilization								
	Production 1/	Imports and inshipments 2/	Beginning stocks 3/			Total supply	Total use 4/	Exports and shipments			Domestic disappearance			
			Commercial	USDA	Total			Commercial 5/	USDA 6/	Total	Eggs used for hatching 7/	Military 8/	Food use, Civilian, USDA donations	Food use, Civilian, Total
	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.	Mil.doz.
1909	2,319	---	---	---	---	2,319	2,319	5	---	5	106	---	---	2,208
1910	2,475	3	---	---	---	2,478	2,478	6	---	6	116	---	---	2,356
1911	2,695	5	---	---	---	2,700	2,700	13	---	13	112	---	---	2,575
1912	2,594	8	---	---	---	2,602	2,602	19	---	19	109	---	---	2,474
1913	2,576	11	---	---	---	2,587	2,587	18	---	18	112	---	---	2,457
1914	2,557	19	---	---	---	2,576	2,576	21	---	21	116	---	---	2,439
1915	2,741	17	---	---	---	2,758	2,758	22	---	22	114	---	---	2,622
1916	2,640	26	45	---	45	2,711	2,683	28	---	28	111	---	---	2,544
1917	2,539	40	30	---	30	2,609	2,557	20	---	20	113	---	---	2,424
1918	2,567	29	52	---	52	2,648	2,618	21	---	21	120	---	---	2,477
1919	2,796	49	30	---	30	2,875	2,812	39	---	39	119	---	---	2,654
1920	2,722	50	63	---	63	2,835	2,800	27	---	27	116	---	---	2,657
1921	2,823	52	35	---	35	2,910	2,867	33	---	33	125	---	---	2,709
1922	3,025	54	43	---	43	3,122	3,063	35	---	35	131	---	---	2,897
1923	3,208	31	59	---	59	3,298	3,213	31	---	31	136	---	---	3,046
1924	3,171	41	85	---	85	3,297	3,247	28	---	28	136	---	---	3,083
1925	3,205	58	50	---	50	3,313	3,234	25	---	25	139	---	---	3,070
1926	3,414	53	79	---	79	3,546	3,485	27	---	27	143	---	---	3,312
1927	3,541	36	61	---	61	3,638	3,572	29	---	29	151	---	---	3,392
1928	3,544	35	66	---	66	3,645	3,556	20	---	20	139	---	---	3,397
1929	3,476	53	89	---	89	3,618	3,552	12	---	12	147	---	---	3,393
1930	3,581	44	66	---	66	3,691	3,566	19	---	19	149	---	---	3,398
1931	3,532	34	125	---	125	3,691	3,582	8	---	8	135	---	---	3,439
1932	3,327	10	109	---	109	3,446	3,396	2	---	2	136	---	---	3,258
1933	3,255	9	56	---	56	3,314	3,242	2	---	2	137	---	---	3,103
1934	3,156	8	72	---	72	3,236	3,164	2	---	2	122	---	---	3,040
1935	3,081	22	72	---	72	3,175	3,090	2	---	2	124	---	---	2,964
1936	3,166	27	85	---	85	3,278	3,217	2	---	2	134	---	---	3,081
1937	3,443	32	61	---	61	3,536	3,424	2	---	2	115	---	---	3,307
1938	3,424	6	112	---	112	3,542	3,483	2	---	2	124	---	---	3,357
1939	3,561	5	59	---	59	3,625	3,351	3	---	3	133	---	---	3,415
1940	3,640	7	74	---	74	3,721	3,644	5	---	5	129	---	---	3,510
1941	3,840	15	77	---	77	3,932	3,810	12	143	155	174	62	---	3,419
1942	4,456	3	75	47	122	4,581	4,286	13	428	441	197	164	---	3,484
1943	5,000	1	74	221	295	5,296	4,988	15	629	644	238	382	---	3,724
1944	5,366	1	100	208	308	5,675	10/5,157	17	658	675	190	495	---	3,797
1945	5,154	2	80	422	502	5,658	10/5,553	17	390	407	229	583	---	4,334
1946	5,130	1	61	47	108	5,239	5,069	66	286	352	179	163	---	4,375
1947	5,077	1	109	61	170	5,248	5,031	48	176	224	176	77	---	4,554
1948	5,032	2	73	144	217	5,251	10/5,079	40	33	73	174	11/127	---	4,705
1949	5,148	8	72	96	168	5,324	10/5,063	28	56	84	200	11/62	---	4,717
1950	5,404	20	53	206	259	5,683	10/5,326	30	150	180	200	71	---	4,875
1951	5,322	8	52	304	356	5,686	5,578	39	215	254	228	155	---	4,941
1952	5,323	8	63	45	108	5,439	5,385	54	11	65	218	118	7	4,984
1953	5,307	7	54	---	54	5,368	5,330	58	---	58	227	117	---	4,928
1954	5,402	4	38	---	38	5,444	5,375	64	---	64	224	101	---	4,986
1955	5,407	2	69	---	69	5,478	5,405	63	2	65	228	91	---	5,021
1956	5,500	2	73	---	73	5,575	5,487	59	5	64	256	80	6	5,087
1957	5,441	1	88	---	88	5,530	5,462	50	---	50	252	83	20	5,077
1958	5,441	2	68	---	68	5,511	5,462	39	5	44	287	72	---	5,059
1959	5,542	1	45	---	45	5,588	5,523	50	4	54	280	64	5	5,125
1960	5,342	3	65	---	65	5,410	5,359	42	2	44	288	63	6	4,964
1961	5,328	3	51	---	51	5,382	5,334	40	2	42	308	64	7	4,920
1962	5,367	2	48	---	48	5,417	5,367	32	---	32	313	70	3	4,952
1963 12/	5,320	1	50	---	50	5,371	5,327	42	1	43	317	67	2	4,900

Year	Domestic disappearance, Food use, Civilian, Per capita 9/
	No.
1909	293
1910	306
1911	329
1912	312
1913	303
1914	295
1915	313
1916	299
1917	281
1918	284
1919	303
1920	299
1921	300
1922	316
1923	326
1924	324
1925	318
1926	339
1927	342
1928	338
1929	334
1930	331
1931	333
1932	313
1933	296
1934	289
1935	280
1936	289
1937	308
1938	310
1939	313
1940	319
1941	311
1942	318
1943	347
1944	354
1945	403
1946	379
1947	383
1948	389
1949	383
1950	389
1951	393
1952	390
1953	379
1954	376
1955	371
1956	369
1957	362
1958	354
1959	352
1960	334
1961	326
1962	323
1963 12/	315

1/ Estimated farm output plus nonfarm production estimated at 10 percent of farm production in 1909-54. Beginning in 1955, this adjustment was reduced 1 percentage point per year to zero in 1964. 2/ Shell eggs and the approximate shell-egg equivalent of dried and frozen eggs. 3/ Storage stocks include shell eggs and the approximate shell-egg equivalent of frozen eggs in all years except 1916 when only shell egg stocks were available. In 1946-58 commercial storage holdings also included the shell-egg equivalent of reported stocks of dried egg solids. 4/ Total supply minus ending stocks. 5/ Includes shell eggs only prior to 1941, but the quantities in other forms not reported were small. 6/ Exports under the Mutual Security Act of 1951 and USDA donations to Territories beginning in 1955. 7/ Through 1940, estimated from the number of chickens raised; after 1940, estimated on the basis of chickens hatched. 8/ Includes USDA donations to military and military feeding of civilians in occupied territories. 9/ Civilian per capita only beginning 1941. 10/ Excludes storage losses as follows (million dozen): 16 in 1944, 2 in 1945, 4 in 1948, 2 in 1949 and 1 in 1950. 11/ Includes quantities transferred from USDA stocks for civilian feeding: 1948, 21 million pounds dried (63 million dozen); 1949, 703,000 pounds dried (2 million dozen). 12/ Preliminary.

Eggs

Estimates of the number of layers on farms and the rate of lay are used to estimate farm egg production. For census years, the number of layers on farms is based on census data adjusted to a January 1 date. Over the last few decades, these adjustments also have included an allowance for data incompleteness based on other sources. For intercensal years, January 1 numbers are estimated primarily by using year-to-year changes in farm flocks. These changes are computed from December surveys by rural mail carriers and surveys of commercial egg operators. Now that egg operations have become larger and fewer, a special effort is made to obtain representation of these larger units in the surveys. Month-to-month changes in layer numbers, average rate of lay per bird, and resultant production of eggs are based upon monthly reports from general farms and commercial egg operations. Monthly estimates of the hatch of egg-type chicks since 1954 also have provided an indication of the number of pullets added to the laying flock. The commercial egg movement report, initiated in 1958, shows quantities of eggs received by assemblers. It provides a check on trends in egg production for recent years.

Per capita consumption of eggs is derived by the general disappearance method (table 43). No deduction from total use was made for breakage, loss, or for the relatively few eggs used for nonfood purposes (other than hatching), such as culture media and tanning. However, the balance sheet accounts for USDA storage losses in certain years.

Some data, such as stocks, exports, and imports, had to be converted from dried and frozen eggs to shell-egg equivalents. Consumption estimates were converted to pounds using trade information. Conversion factors were changed from time to time as new information dictated. For example, a 30-dozen case of eggs was deemed equivalent to 39.5 pounds of liquid or frozen egg in 1958-63, 38.5 pounds in 1951-57, and 37.0 pounds in 1931-50. The increasing average size of eggs necessitated changing the early factor of 1.5 pounds per dozen. Beginning with 1947 data, the factor was increased 0.01 pound per year to the current level of 1.57 pounds per dozen in 1957. Cold-storage data on shell eggs became available in 1916 and on frozen eggs in 1917. Data on stocks of dried eggs were collected in 1943-58. The Department's stocks included shell eggs in 1940-52 and frozen eggs in 1941-52.

Total eggs used for hatching were computed through 1940 by adding the number of farm chickens, nonfarm chickens (estimated as 10 percent of farm chickens), and commercial broilers produced, and multiplying by a factor representing eggs required per chicken raised. Commercial hatchery production gradually supplanted farm hatchings as a source of chicks. Special surveys of such output in 1937, 1938, and 1943 led to the development of a regular report on hatchings in 1943; estimates were made for earlier years. Beginning in 1941, the number of chicks produced by commercial hatcheries was used as the primary basis for estimating eggs used for hatching. An estimate of total eggs incubated was made for each year by dividing chicks hatched by a hatchability factor, which was 73 percent in 1963. Between 1941 and 1962, estimates of eggs used by commercial hatcheries were augmented by those used for hatching on farms.

Data on exports and imports have been available since 1910. Before 1922, export data included only shell eggs. From 1922 to 1940 (1938 and 1939 not available), eggs and yolks, other than in shell, were reported only in total. This conversion problem was met by treating these egg products as equivalent to whole frozen eggs. Data on egg products in other instances were converted to shell-egg basis using standard factors for individual products. Shipments to Territories, USDA exports, and military procurement have been separately reported since 1941. In the absence of reported data, commercial shipments to Hawaii and Alaska were approximated in 1949-59. Data on USDA donations to civilians are available since 1946.

Chickens

Total output of chicken meat is the sum of commercial broiler production, the

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sale and consumption of other chickens on farms where produced 11/, and chickens produced in backyards of nonfarm residences. Estimates of numbers of chickens raised on farms (excluding broilers) are tied to census enumerations taken every 5 years; adjustments for incompleteness are made when indicated by State farm censuses, inspection records, and other check data. Numbers raised in intercensal years are estimated mainly from year-to-year changes indicated by the June rural-mail-carrier survey. Since 1955, data on the hatch of egg-type chicks have provided a check on the number of other chickens.

Monthly and annual chick production estimates currently are based on reports from commercial hatcheries. Follow-up surveys are conducted annually to obtain information from hatcheries that failed to report operations monthly. Essentially all the chicks now raised as broilers or for egg production come from commercial hatcheries.

Production of chickens, other than commercial broilers, is estimated by subtracting the death loss during the year from the number raised during the year. Slaughter is taken as the number produced adjusted for farm inventory change. Hence, it includes sales and consumption on farms where produced. The December rural-mail-carrier survey, heavily supplemented in recent years by reports from commercial egg operations, is the principal source of inventory information.

The carrier surveys provided most of the primary data for estimating commercial broiler production from 1934 (the year estimates were started) through 1947. Since then, expanded geographical coverage of reports on broiler chick placements and hatches has improved estimation of annual broiler production. Since 1955, weekly broiler chick placements have been available for 22 States. The U. S. hatch of broiler chicks previously contained data for the 48 States. Estimates for Hawaii were started in 1961.

Slaughter of chickens in commercial plants since 1954 has provided a highly representative source of information on the average liveweights of young and mature chickens. Previously, average liveweights were obtained from correspondents; dressed and ready-to-cook yields occasionally were obtained from slaughter plants. Federally inspected slaughter of young chickens now accounts for much of the total broiler slaughter and therefore provides a good check on year-to-year changes in broiler production.

Liveweight data for broilers and other chickens through 1949 were converted to dressed-weight equivalents (New York style, excluding blood and feathers) using a 12-percent loss factor. During about the last 15 years, chickens increasingly have been sold in the ready-to-cook (eviscerated) form. The series was expressed on this new basis beginning in 1947, thus overlapping the old series by 3 years. Percentages applied to liveweights to obtain eviscerated weights were increased gradually from 68.48 in 1947 to the current level of 72 in 1958, mainly to reflect the higher yield in the increasing proportion of broilers. Civilian per capita consumption estimates in 1929-46, in terms of dressed weight, were converted to ready-to-cook equivalents by multiplying by 0.75.

Civilian consumption of chicken meat is derived by the usual disappearance method (table 41). Data on cold-storage holdings have been available since 1916, import data since 1909, and exports since 1921. Data on USDA donations, available since 1946, are actual distributions as opposed to quantities contracted for or purchased by the Department. USDA exports since 1954 have included only sales under Title I of P.L. 480. Shipments to Territories from USDA supplies during the same period have been negligible. Data on cold-storage holdings and some items of foreign trade do not differentiate between New York dressed and ready-to-cook weights.

11/ These chickens are called farm chickens and today are mainly a byproduct of egg production enterprises. Commercial broilers are produced solely for their meat.

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The supply and utilization data in table 41 do not differentiate between broilers and other chickens. However, broilers represented 87 percent of total chicken meat consumption in 1963.

Turkeys

Basic data on turkeys raised are obtained from the quinquennial census enumeration, adjusted when necessary for underenumeration on the basis of State census reports, inspection records, and State accessors' data. Changes in the intervening years are now based on poult placements by commercial hatcheries; in earlier years, they were based on surveys of turkey producers. Since 1959, turkey slaughter data have provided an additional basis for developing production estimates.

A partial coverage of the slaughter of turkeys in commercial plants was reported in 1955-59. More complete data have been reported in plants operating under mandatory Federal inspection after 1958. Slaughter data since 1959 have yielded detailed and highly representative information on the average live and ready-to-cook weights of the different classes of turkeys. Average liveweights reported from grower surveys, once used as the main indication, are still used as a check. Federally inspected slaughter in recent years has accounted for a large percentage of the total estimated slaughter (87 percent in 1963).

Annual production includes farm sales and consumption on farms where produced. The published series was changed to the ready-to-cook basis in 1947, because of the shift from marketing dressed turkeys. Supply and utilization are given on both bases for 1947-49. Liveweight production was converted to dressed weight, using a factor of 91 percent through 1949, and to ready-to-cook weight, using a factor of 75 percent in 1947-55. Beginning in 1956, the conversion factor was increased 1 percentage point per year to the current level of 80 percent in 1961. Per capita estimates in terms of dressed weight for 1929-46 were converted to ready-to-cook equivalents by multiplying by 0.824.

The derivation of turkey consumption or disappearance is shown in table 42.

Dairy Products

Consumption of milk and individual manufactured dairy products is estimated from production of milk, output of manufactured products, use of milk as fluid milk and cream, foreign trade and shipments, military procurement, and adjustment for change in stocks. Consumption of many of the individual products is estimated independently of the total milk supply. The tables on supply and distribution of all dairy products expressed in the form of whole milk, milkfat, and solids-not-fat (tables 44-46) are summations of comparable items given in the tables of component products, with allowances for residual consumption in unennumerated forms (tables 47-52).

Beginning with 1955, USDA exports consist of shipments under P.L. 480 and AID programs. Sales for foreign currency, sales under long-term loans, foreign donations, and barter transactions are included under these programs. However, the USDA column does not measure the complete overseas movement of products acquired under dairy price support programs. Certain P.L. 480 shipments, such as those of evaporated milk, did not come from USDA stocks. Also, the designated USDA shipments may exclude certain exports from USDA stocks. Exports for which payments in cash or kind are made may or may not come from USDA stocks; such exports are tabulated under "commercial."

Fluid Milk and Cream

Data on farm production and use of milk are published annually by SRS. These figures show milk fed to livestock, consumption on farms where produced, and milk sold. About one-half of total U. S. milk production is consumed as fluid milk and cream. Currently, consumption on farms producing milk accounts for less than a tenth of total fluid milk and cream consumption. Year-to-year changes in nonfarm use are estimated by SRS largely on the basis of changes in Federal and State marketing area sales. These

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Table 44.—All dairy products and milk (milk equivalent): Supply and utilization, 1924-63 1/

Year	Supply: Production 2/	Supply: Imports	Supply: Beginning stocks: Commercial	Supply: Beginning stocks: USDA	Supply: Beginning stocks: Total	Supply: Total supply	Utilization: Total use 3/	Utilization: Exports and shipments: Commercial	Utilization: Exports and shipments: USDA	Utilization: Exports and shipments: Total	Utilization: Use in margarine 4/	Utilization: Domestic disappearance: Fed to calves	Utilization: Domestic disappearance: Total food use: Military 5/	Utilization: Domestic disappearance: Total food use: Civilian: USDA donations 6/	Utilization: Domestic disappearance: Total food use: Civilian: Total	Utilization: Domestic disappearance: Total food use: Civilian: Per capita 7/	Utilization: Domestic disappearance: Fluid milk and cream (milk equivalent): Military	Utilization: Domestic disappearance: Fluid milk and cream (milk equivalent): Civilian	Utilization: Domestic disappearance: Fluid milk and cream (milk equivalent): Civilian per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.	Bil.lb.	Bil.lb.	Lb.
1924	93,660	1,405	1,656	---	1,656	96,721	94,454	834	---	834	40	2,742	---	---	90,838	796	---	38.3	336
1925	94,940	1,303	2,267	---	2,267	98,510	96,327	670	---	670	40	2,784	---	---	92,833	802	---	39.0	337
1926	97,104	1,474	2,183	---	2,183	101,061	99,425	540	---	540	40	2,858	---	---	95,987	818	---	39.7	338
1927	99,018	1,452	1,636	---	1,636	102,106	100,147	488	---	488	40	2,901	---	---	96,718	813	---	40.0	336
1928	99,367	1,283	1,959	---	1,959	102,609	100,447	522	---	522	60	2,944	---	---	96,921	804	---	40.6	337
1929	102,133	1,147	2,162	---	2,162	103,442	102,385	512	---	512	60	3,012	---	---	98,801	811	---	41.4	340
1930	102,984	895	3,057	---	3,057	106,936	3/104,324	453	---	453	40	2,986	---	---	100,845	819	---	41.5	337
1931	105,629	664	3/2,806	---	2,806	109,099	107,385	441	---	441	---	2,997	---	---	103,947	838	---	41.6	335
1932	106,310	582	1,714	---	1,714	108,606	107,046	336	---	336	---	2,859	---	---	103,851	832	---	42.3	339
1933	107,162	495	1,560	---	1,560	109,217	105,410	290	---	290	---	2,878	---	66	102,242	814	---	42.3	337
1934	104,021	407	3,807	---	3,807	108,235	105,829	323	---	323	---	2,688	---	1,402	102,818	813	---	40.7	322
1935	103,605	875	2,406	---	2,406	106,886	104,789	345	---	345	---	2,676	---	316	101,768	800	---	41.5	326
1936	104,710	745	2,097	---	2,097	107,552	104,482	303	---	303	---	2,755	---	85	101,424	792	---	42.3	330
1937	104,208	758	3,070	---	3,070	108,036	105,682	322	---	322	---	2,724	---	106	102,636	797	---	42.6	331
1938	108,107	496	2,354	---	2,354	110,957	106,513	378	---	378	---	2,850	---	1,070	103,285	796	---	42.7	329
1939	108,992	519	4,444	---	4,444	113,955	111,232	421	---	421	---	2,967	---	2,284	107,844	824	---	43.5	332
1940	111,512	290	2,723	---	2,723	114,525	111,844	745	---	745	---	2,994	---	1,041	108,105	818	---	43.7	331
1941	117,088	243	2,681	---	2,681	120,012	114,383	994	1,999	2,993	---	3,124	2,450	760	105,816	803	0.4	44.0	334
1942	120,433	623	4,886	743	5,629	126,685	122,693	505	4,174	4,679	---	3,294	5,282	1,067	109,438	832	.9	46.5	354
1943	118,517	291	2,016	1,976	3,992	122,800	115,845	315	5,069	5,384	---	3,276	10,574	355	96,611	750	1.7	47.8	371
1944	118,123	118	2,290	4,665	6,955	125,196	122,407	377	6,434	6,811	---	3,258	14,257	198	98,081	763	1.7	49.0	381
1945	120,628	156	1,785	1,004	2,789	123,573	119,369	703	4,456	5,159	---	3,290	9,175	170	101,745	788	1.3	51.5	399
1946	118,697	316	1,815	2,389	4,204	123,217	120,389	1,222	4,842	6,064	---	3,228	2,258	291	108,779	786	.7	53.9	389
1947	118,114	153	2,699	189	2,888	121,155	118,519	3,709	694	4,403	---	3,194	1,355	457	103,567	768	.4	52.6	369
1948	113,671	195	2,681	15	2,696	116,562	3/112,905	2,713	284	2,997	---	3,064	1,900	585	104,344	723	.4	51.6	355
1949	117,003	272	3/3,644	2	3,651	120,926	115,566	2,586	96	2,682	---	3,163	1,369	806	108,352	734	.4	51.9	352
1950	117,302	459	2,990	2,370	5,360	123,121	118,367	1,204	1,003	2,207	---	3,286	1,666	1,894	111,208	740	.5	52.4	349
1951	115,181	525	3,117	1,637	4,754	120,460	116,824	1,611	862	2,473	---	3,449	2,963	844	107,939	715	.9	53.2	352
1952	115,071	709	3,566	70	3,636	118,416	114,338	902	10	912	---	3,348	2,702	890	107,376	700	.9	54.0	352
1953	120,521	525	4,884	200	5,084	126,230	115,330	921	704	1,625	---	3,334	2,643	2,419	107,734	691	.9	54.2	347
1954	122,294	441	3,284	7,510	10,794	133,529	119,866	943	1,360	2,303	---	3,344	2,913	3,369	111,246	699	.9	55.3	348
1955	123,045	458	3,214	10,519	13,733	137,226	128,145	1,167	5,794	6,961	---	3,266	3,229	4,496	114,652	706	1.0	56.5	348
1956	124,860	514	3,601	5,517	9,118	134,492	120,907	1,378	5,142	6,520	---	3,119	3,123	5,089	116,145	702	1.1	57.6	348
1957	124,628	661	3,634	1,951	5,585	130,874	124,418	977	2,067	3,044	---	2,950	3,075	4,140	115,349	685	1.4	57.7	343
1958	123,220	507	3,679	2,777	6,456	130,183	125,416	851	2,303	3,154	---	2,767	2,910	6,153	116,585	680	1.3	57.5	335
1959	121,989	578	3,783	984	4,767	127,334	123,174	874	617	1,491	---	2,658	2,874	5,124	116,151	666	1.3	57.2	328
1960	122,951	604	3,730	430	4,160	127,715	122,315	887	142	1,029	---	2,551	2,732	4,495	116,308	651	1.2	57.3	322
1961	125,442	760	4,162	1,208	5,450	131,932	121,699	784	148	932	---	2,459	2,772	5,987	115,536	638	1.3	56.2	310
1962	126,021	795	4,992	4,911	9,903	135,719	124,563	784	934	1,718	---	2,361	3,269	7,603	117,215	638	1.4	56.6	308
1963 9/	124,783	915	4,333	7,818	12,150	137,854	128,164	2,071	3,381	5,452	---	2,276	3,264	7,831	117,172	628	1.4	57.4	308

1/ Milk equivalent of all dairy products calculated on fat-solids basis.
2/ Production for 1924-55 includes an allowance for milk produced by cows not on farms. 1956 forward is farm production only.
3/ Total supply minus ending stocks. Differences in ending stocks and beginning stocks are due to addition of cold storage stocks of cream and condensed milk (bulk) on January 1, 1931 and January 1, 1949, respectively.
4/ Milk equivalent of butter used in making margarine.
5/ Includes use by military in civilian feeding programs abroad.
6/ For welfare purposes, institutions, and the School Lunch Program. Includes milk consumed through the Special Milk Program as follows (mil. lb.):

1937....	5	1942....	194	1947....	435	1952....	776	1957....	1,951	1962....	2,708
1938....	91	1943....	164	1948....	475	1953....	820	1958....	2,147	1963....	2,944
1939....	90	1944....	129	1949....	570	1954....	942	1959....	2,313		
1940....	129	1945....	170	1950....	642	1955....	1,422	1960....	2,470		
1941....	191	1946....	291	1951....	698	1956....	1,767	1961....	2,594		

7/ Approximations of per capita consumption of total milk for 1909-23 are as follows (pounds):

1909....	770	1911....	749	1913....	754	1915....	751	1917....	729	1919....	733	1921....	768	1923....	787
1910....	759	1912....	763	1914....	747	1916....	747	1918....	725	1920....	736	1922....	783		

8/ Approximations of per capita consumption of fluid milk and cream for 1909-23 are as follows (pounds):

1909....	343	1911....	301	1913....	344	1915....	318	1917....	328	1919....	335	1921....	346	1923....	328
1910....	315	1912....	355	1914....	321	1916....	315	1918....	361	1920....	348	1922....	342		

9/ Preliminary.

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Table 45.--Milkfat in all dairy products and milk: Supply and utilization, 1924-63 1/

Year	Supply						Utilization									
			Beginning stocks					Exports and shipments				Domestic disappearance for food				
														Civilian		
	Production	Imports	Commercial	USDA	Total	Total supply	Total use 2/	Commercial	USDA	Total	Other uses	Fed to calves	Military 3/	USDA donations 4/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1924	3,668	50	59	---	59	3,777	3,693	31	---	31	2	107	---	---	3,553	31.1
1925	3,717	45	84	---	84	3,846	3,766	24	---	24	2	109	---	---	3,631	31.4
1926	3,819	51	80	---	80	3,950	3,891	20	---	20	2	112	---	---	3,757	32.0
1927	3,885	50	59	---	59	3,994	3,922	18	---	18	2	114	---	---	3,788	31.8
1928	3,900	43	72	---	72	4,015	3,937	20	---	20	2	116	---	---	3,799	31.5
1929	4,007	39	78	---	78	4,124	4,011	19	---	19	2	118	---	---	3,872	31.8
1930	4,040	30	113	---	113	4,183	4,087	17	---	17	2	117	---	---	3,951	32.1
1931	4,147	22	5/103	---	5/103	4,272	4,211	17	---	17	---	118	---	---	4,076	32.9
1932	4,177	19	61	---	61	4,257	4,202	13	---	13	---	112	---	---	4,077	32.7
1933	4,208	16	55	---	55	4,279	4,136	11	---	11	---	113	---	3	4,012	31.9
1934	4,094	16	143	---	143	4,253	4,166	12	---	12	---	106	---	55	4,048	32.0
1935	4,095	34	87	---	87	4,216	4,141	13	---	13	---	106	---	12	4,022	31.6
1936	4,132	28	75	---	75	4,235	4,123	11	---	11	---	109	---	3	4,003	31.2
1937	4,116	29	112	---	112	4,257	4,172	12	---	12	---	108	---	4	4,052	31.5
1938	4,271	19	85	---	85	4,375	4,208	14	---	14	---	113	---	42	4,081	31.4
1939	4,310	19	167	---	167	4,496	4,397	16	---	16	---	117	---	92	4,264	32.6
1940	4,426	11	99	---	99	4,536	4,441	28	---	28	---	119	---	41	4,294	32.5
1941	4,650	9	95	---	95	4,754	4,549	37	69	106	---	124	100	30	4,219	32.0
1942	4,779	24	180	25	205	5,008	4,866	19	141	160	---	131	204	42	4,371	33.2
1943	4,711	10	70	72	142	4,863	4,609	12	185	197	---	130	407	13	3,875	30.1
1944	4,701	4	82	172	254	4,959	4,859	14	230	244	---	130	545	7	3,940	30.6
1945	4,796	6	64	36	100	4,902	4,752	26	159	185	---	131	360	6	4,076	31.6
1946	4,717	12	65	85	150	4,879	4,775	44	170	214	---	128	90	11	4,343	31.4
1947	4,691	6	97	7	104	4,801	4,708	130	24	154	---	127	54	17	4,373	30.7
1948	4,518	8	92	1	93	4,619	4,490	95	11	106	---	122	74	22	4,188	28.8
1949	4,631	10	5/131	6/	5/131	4,772	4,572	90	4	94	---	125	55	30	4,298	29.1
1950	4,646	18	105	95	200	4,864	4,690	43	39	82	---	130	65	72	4,413	29.4
1951	4,529	19	109	65	174	4,722	4,597	57	32	89	---	136	115	30	4,257	28.2
1952	4,492	26	122	3	125	4,643	4,460	32	6/	32	---	131	104	32	4,193	27.4
1953	4,667	19	175	8	183	4,869	4,470	33	28	61	---	129	102	80	4,178	26.8
1954	4,725	17	115	284	399	5,141	4,635	34	54	88	---	129	113	127	4,305	27.1
1955	4,730	17	112	394	506	5,253	4,929	42	224	266	---	125	126	168	4,412	27.2
1956	4,773	19	124	200	324	5,116	4,928	51	195	246	---	119	121	189	4,442	26.9
1957	4,744	25	124	64	188	4,957	4,727	35	75	110	---	112	119	152	4,386	26.0
1958	4,658	19	130	100	230	4,907	4,735	32	84	116	---	105	110	223	4,404	25.7
1959	4,588	22	134	38	172	4,782	4,634	32	27	59	---	100	109	188	4,366	25.0
1960	4,623	22	132	16	148	4,793	4,598	34	8	42	---	96	103	164	4,357	24.5
1961	4,709	27	148	47	195	4,931	4,571	31	10	41	---	92	105	220	4,333	23.9
1962	4,708	29	175	185	360	5,097	4,651	31	39	70	---	88	123	275	4,370	23.8
1963 7/	4,642	32	152	294	446	5,120	4,768	78	131	209	---	85	122	282	4,352	23.3

1/ Total milkfat in all dairy products. Quantities produced and fed to calves estimated by applying annual fat test to reported quantities of milk. Quantities in remaining columns, except civilian disappearance, were estimated by applying percentage of milkfat in each product to the amount of product. Civilian disappearance computed as residual from other uses and ending stocks.

2/ Total supply minus ending stocks; 1930 and 1948 ending stocks differ from beginning stocks 1931 and 1949 due to inclusion of additional commodities (see footnote 5).

3/ Includes quantities used by military in civilian feeding programs abroad.

4/ For welfare purposes, institutions, and the School Lunch program. Includes milk consumed through the Special Milk Program.

5/ Cold-storage holdings of cream included beginning January 1, 1931; condensed milk (bulk) beginning January 1, 1949.

6/ Less than 500,000 pounds.

7/ Preliminary.

Table 46.--Milk solids-not-fat in all dairy products and milk: Supply and utilization, 1924-63 1/

Year	Supply						Utilization								
			Beginning stocks					Exports and shipments				Domestic disappearance			
												Food use			
													Civilian		
	Production	Imports	Commercial	USDA	Total	Total supply	Total use 2/	Commercial	Non-commercial	Total	Fed to animals or wasted	Military 3/	USDA donations 4/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1924	8,158	26	53	---	53	8,237	8,194	50	---	50	4,230	---	---	3,914	34.3
1925	8,269	32	43	---	43	8,344	8,291	40	---	40	4,267	---	---	3,984	34.4
1926	8,484	36	53	---	53	8,573	8,532	31	---	31	4,439	---	---	4,062	34.6
1927	8,624	34	41	---	41	8,699	8,647	29	---	29	4,489	---	---	4,129	34.7
1928	8,665	33	52	---	52	8,750	8,690	32	---	32	4,453	---	---	4,205	34.9
1929	8,896	29	60	---	60	8,985	8,912	31	---	31	4,508	---	---	4,373	35.9
1930	8,970	23	5/90	---	90	9,083	8,992	29	---	29	4,568	---	---	4,395	35.7
1931	9,211	19	5/92	---	92	9,322	9,256	31	---	31	4,835	---	---	4,390	35.4
1932	9,270	16	66	---	66	9,352	9,298	18	---	18	4,837	---	---	4,443	35.6
1933	9,345	14	54	---	54	9,413	9,325	15	---	15	4,851	---	6/	4,459	35.5
1934	9,071	14	88	---	88	9,173	9,090	17	---	17	4,649	---	4	4,424	35.0
1935	9,034	16	83	---	83	9,133	9,078	17	---	17	4,520	---	11	4,541	35.7
1936	9,131	40	55	---	55	9,226	9,118	16	---	16	4,452	---	2	4,650	36.3
1937	9,087	20	108	---	108	9,215	9,126	19	---	19	4,354	---	4	4,753	36.9
1938	9,427	16	89	---	89	9,532	9,425	24	---	24	4,585	---	11	4,816	37.1
1939	9,504	20	107	---	107	9,631	9,550	22	---	22	4,593	---	11	4,935	37.7
1940	9,735	10	81	---	81	9,826	9,721	53	---	53	4,635	---	25	5,033	38.1
1941	10,222	6	105	---	105	10,333	10,162	69	148	217	4,796	88	18	5,061	38.4
1942	10,514	7	136	35	171	10,692	10,384	29	294	323	4,449	220	27	5,392	41.0
1943	10,347	7	83	225	308	10,662	10,420	17	415	432	4,105	392	30	5,491	42.6
1944	10,324	3	88	154	242	10,569	10,321	23	446	469	3,717	631	18	5,504	42.8
1945	10,543	3	100	148	248	10,794	10,510	55	390	445	3,600	591	15	5,874	45.5
1946	10,362	6	64	220	284	10,652	10,502	114	459	573	3,309	129	26	6,491	46.9
1947	10,311	3	115	35	150	10,464	10,346	303	133	436	3,460	176	41	6,274	44.0
1948	9,923	12	101	17	118	10,053	9,853	213	107	320	3,246	131	54	6,156	42.4
1949	10,214	15	5/188	16	204	10,433	10,028	201	61	262	3,342	181	63	6,243	42.3
1950	10,240	20	15[illegible]	249	405	10,665	10,286	119	324	443	3,202	77	89	6,564	43.7
1951	10,044	24	11[illegible]	262	379	10,447	10,229	165	193	358	3,120	152	78	6,599	43.7
1952	10,011	55	1[illegible]8	50	218	10,284	9,965	118	22	140	2,880	154	90	6,791	44.3
1953	10,473	21	[illegible]82	37	319	10,813	10,101	104	161	265	2,879	140	89	6,817	43.7
1954	10,627	16	[illegible]8	524	712	11,355	10,827	90	252	342	3,380	121	143	6,984	43.9
1955	10,680	17	[illegible]58	370	528	11,225	10,776	119	535	654	2,753	130	228	7,239	44.6
1956	10,825	17	207	242	449	11,291	10,910	218	565	783	2,617	133	270	7,377	44.6
1957	10,793	[illegible]	204	177	381	11,191	10,801	264	553	817	2,384	157	288	7,443	44.2
1958	10,659		206	184	390	11,067	10,703	146	645	791	2,290	145	352	7,477	43.6
1959	10,540	[illegible]	212	152	364	10,925	10,634	131	611	742	2,159	142	337	7,591	43.5
1960	10,623	20	227	64	291	10,934	10,416	161	375	536	2,050	132	322	7,698	43.2
1961	10,838	25	248	270	518	11,381	10,719	168	635	803	2,068	147	394	7,701	42.5
1962	10,876	24	303	359	662	11,562	10,750	280	654	934	1,870	153	453	7,793	42.4
1963 7/	10,756	27	232	580	812	11,595	10,986	316	876	1,192	1,881	150	447	7,763	41.6

1/ Production estimated by applying percentage of solids-not-fat in whole milk to quantity of milk produced. Total consumption by civilians determined from percentage of solids-not-fat in individual dairy products consumed per capita. Quantities in remaining columns except "fed to animals or wasted" were computed by applying percentages of solids-not-fat in each product to total amount of product. "Fed to animals or wasted" is the difference between total use and other uses.

2/ Total supply minus ending stocks; 1929, 1930 and 1948 ending stocks differ from beginning stocks of the following year due to the inclusion of additional commodities.

3/ Includes quantities used by military in civilian feeding programs abroad.

4/ For welfare purposes, institutions, and the School Lunch Program. Includes milk consumed through the Special Milk Program.

5/ Nonfat dry milk included beginning January 1, 1930; cold-storage holdings of cream beginning January 1, 1931 and condensed milk (bulk) beginning January 1, 1949.

6/ Less than 500,000 pounds.

7/ Preliminary.

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Table 47.--Cheese: Supply and utilization, 1909-63

Year	Supply						Utilization							
			Beginning stocks 3/					Exports and shipments 5/			Domestic disappearance for food			
												Civilian		
	Production 1/	Imports 2/	Commercial	USDA	Total	Total supply	Total use 4/	Commercial 2/	USDA 6/	Total	Military 7/	USDA donations 8/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	313	38	---	---	---	351	351	5	---	5	---	---	346	3.8
1910	355	44	---	---	---	399	399	4	---	4	---	---	395	4.3
1911	345	45	---	---	---	390	390	15	---	15	---	---	375	4.0
1912	323	49	---	---	---	372	372	4	---	4	---	---	368	3.9
1913	359	56	---	---	---	415	415	4	---	4	---	---	411	4.2
1914	367	55	---	---	---	422	422	5	---	5	---	---	417	4.2
1915	440	39	---	---	---	479	479	64	---	64	---	---	415	4.1
1916	422	29	29	---	29	480	448	56	---	56	---	---	392	3.8
1917	472	6	32	---	32	510	440	55	---	55	---	---	385	3.7
1918	415	8	70	---	70	493	433	50	---	50	---	---	413	3.9
1919	486	11	30	---	30	527	452	16	---	16	---	---	446	4.2
1920	423	13	65	---	65	501	450	19	---	19	---	---	431	4.0
1921	434	27	51	---	51	512	470	15	---	15	---	---	455	4.2
1922	432	47	42	---	42	521	476	8	---	8	---	---	468	4.3
1923	471	64	45	---	45	580	513	11	---	11	---	---	502	4.5
1924	474	59	67	---	67	600	532	8	---	8	---	---	524	4.6
1925	503	62	68	---	68	633	556	13	---	13	---	---	543	4.7
1926	468	78	77	---	77	623	549	7	---	7	---	---	542	4.6
1927	462	79	74	---	74	615	549	6	---	6	---	---	543	4.6
1928	479	81	66	---	66	626	537	5	---	5	---	---	532	4.4
1929	499	76	89	---	89	664	578	5	---	5	---	---	573	4.7
1930	510	68	86	---	86	664	581	4	---	4	---	---	577	4.7
1931	499	62	83	---	83	644	566	4	---	4	---	---	562	4.5
1932	491	56	78	---	78	625	556	3	---	3	---	---	553	4.4
1933	548	48	69	---	69	665	573	3	---	3	---	---	570	4.6
1934	587	48	92	---	92	727	625	4	---	4	---	11	621	4.9
1935	628	49	102	---	102	779	679	4	---	4	---	7	675	5.3
1936	650	60	100	---	100	810	700	4	---	4	---	1	696	5.4
1937	653	61	110	---	110	824	720	4	---	4	---	---	716	5.5
1938	726	54	104	---	104	884	764	4	---	4	---	3	760	5.9
1939	710	59	120	---	120	889	780	4	---	4	---	---	776	6.0
1940	785	33	109	---	109	927	797	6	---	6	---	4	791	6.0
1941	956	20	130	---	130	1,106	891	8	92	100	11	---	780	5.9
1942	1,112	24	159	56	215	1,351	1,212	8	305	313	56	5	843	6.4
1943	993	25	119	20	139	1,157	936	3	168	171	128	2	637	4.9
1944	1,017	9	79	142	221	1,247	1,137	4	297	301	212	---	624	4.9
1945	1,117	8	75	35	110	1,235	1,082	8	182	190	31	---	861	6.7
1946	1,106	21	87	66	153	1,280	1,150	10	202	212	8	---	930	6.7
1947	1,183	9	121	9	130	1,322	1,175	137	45	182	4	3	989	6.9
1948	1,098	24	147	---	147	1,269	1,121	94	---	94	22	12	1,005	6.9
1949	1,199	32	148	---	148	1,379	1,188	102	1	103	10	16	1,075	7.3
1950	1,191	56	168	23	191	1,438	1,226	13	46	59	12	25	1,155	7.7
1951	1,161	52	181	31	212	1,425	1,203	46	39	85	23	16	1,095	7.2
1952	1,170	49	221	1	222	1,441	1,202	8	1	9	23	14	1,170	7.6
1953	1,344	56	237	2	239	1,639	1,207	6	17	23	21	22	1,163	7.5
1954	1,383	50	190	242	432	1,865	1,316	9	29	38	16	61	1,262	7.9
1955	1,367	52	192	357	549	1,968	1,449	9	143	152	16	88	1,281	7.9
1956	1,388	54	240	279	519	1,961	1,520	16	165	181	16	104	1,323	8.0
1957	1,407	52	250	191	441	1,899	1,489	16	165	181	11	95	1,297	7.7
1958	1,399	56	240	170	410	1,865	1,572	7	159	166	12	134	1,394	8.1
1959	1,383	64	282	11	293	1,740	1,436	9	12	21	11	41	1,404	8.0
1960	1,478	63	284	20	304	1,845	1,512	12	2	14	9	27	1,489	8.3
1961	1,635	76	332	1	333	2,044	1,571	14	1	15	12	23	1,544	8.6
1962	1,592	78	419	54	473	2,143	1,719	10	19	29	14	144	1,676	9.2
1963 9/	1,631	83	345	79	424	2,138	1,779	15	32	47	13	130	1,719	9.2

1/ Includes all types of cheese except full-skim American and cottage, pot, and bakers' cheeses. Data for 1909, Census of Manufactures; for 1910-17 estimates derived by interpolation on the basis of market receipts. Factory production only, 1918 to date, published by the Crop Reporting Board (1909-25 include estimates of cheese made on farms).

2/ Data on imports, exports, and shipments from the Department of Commerce, except for World War II period, when supplemented and partially replaced by data from USDA records.

3/ Commercial stocks, as reported in Cold Storage Report, CRB, beginning 1916; Government stocks, as reported in Cold Storage Report, CRB, beginning 1951, except during World War II, when data were adjusted to include stocks held outside cold storage and to exclude military holdings.

4/ Total supply less ending stocks.

5/ Beginning 1955, USDA consists of exports under P. L. 480 and AID programs; all other shipments, whether or not Government-assisted, are listed under commercial.

6/ Includes donations, beginning 1950.

7/ Includes quantities used by military in civilian feeding programs abroad.

8/ For welfare purposes, institutions, and the School Lunch Program.

9/ Preliminary.

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Table 48.--Condensed and evaporated milk: Supply and utilization, 1909-63

Year	Supply						Utilization							
			Beginning stocks				Exports and shipments 5/			Domestic food disappearance				
												Civilian		
	Production 1/	Imports 2/	Commercial 3/	USDA	Total	Total supply	Total use 4/	Commercial 2/	USDA	Total	Military	USDA donations 6/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	495	1	---	---	---	496	496	---	---	---	---	---	496	5.5
1910	556	1	---	---	---	557	557	21	---	21	---	---	536	5.8
1911	624	1	---	---	---	625	625	25	---	25	---	---	600	6.4
1912	701	2	---	---	---	703	703	29	---	29	---	---	674	7.1
1913	787	15	---	---	---	802	802	27	---	27	---	---	775	7.9
1914	883	34	---	---	---	917	917	33	---	33	---	---	884	8.9
1915	1,028	18	---	---	---	1,046	1,046	87	---	87	---	---	959	9.5
1916	1,195	18	---	---	---	1,214	1,214	232	---	232	---	---	982	9.6
1917	1,391	30	---	---	---	1,421	1,421	442	---	442	---	---	979	9.4
1918	1,619	20	---	---	---	1,639	1,639	562	---	562	---	---	1,077	10.3
1919	1,883	16	---	---	---	1,899	1,899	865	---	865	---	---	1,034	9.8
1920	1,416	24	119	---	119	1,559	1,342	426	---	426	---	---	916	8.6
1921	1,323	9	217	---	217	1,549	1,372	302	---	302	---	---	1,070	9.9
1922	1,261	4	177	---	177	1,462	1,398	200	---	200	---	---	1,198	10.9
1923	1,586	10	64	---	64	1,660	1,489	207	---	207	---	---	1,282	11.4
1924	1,507	7	171	---	171	1,685	1,571	221	---	221	---	---	1,350	11.9
1925	1,547	5	114	---	114	1,666	1,514	161	---	161	---	---	1,353	11.7
1926	1,456	1	152	---	152	1,609	1,518	130	---	130	---	---	1,388	11.8
1927	1,576	3	91	---	91	1,670	1,505	119	---	119	---	---	1,386	11.7
1928	1,604	2	165	---	165	1,771	1,604	132	---	132	---	---	1,472	12.3
1929	1,849	3	167	---	167	2,019	1,782	125	---	125	---	---	1,657	13.6
1930	1,761	1	237	---	237	1,999	1,779	107	---	107	---	---	1,672	13.6
1931	1,682	2	220	---	220	1,904	1,759	93	---	93	---	---	1,666	13.4
1932	1,780	1	145	---	145	1,926	1,814	68	---	68	---	---	1,746	14.0
1933	1,899	1	112	---	112	2,012	1,793	56	---	56	---	---	1,737	13.8
1934	1,908	7/	219	---	219	2,127	1,959	65	---	65	---	---	1,894	15.0
1935	2,032	1	168	---	168	2,201	2,119	62	---	62	---	46	2,057	16.2
1936	2,271	2	82	---	82	2,355	2,087	51	---	51	---	7	2,036	15.9
1937	2,132	1	268	---	268	2,401	2,213	59	---	59	---	19	2,154	16.7
1938	2,322	1	188	---	188	2,511	2,299	58	---	58	---	10	2,241	17.3
1939	2,368	7/	212	---	212	2,580	2,388	61	---	61	---	12	2,327	17.8
1940	2,731	7/	192	---	192	2,923	2,727	176	---	176	---	65	2,551	19.3
1941	3,555	7/	196	---	196	3,751	3,329	230	495	725	165	6	2,439	18.5
1942	3,783	7/	340	82	422	4,205	3,305	64	380	444	432	40	2,429	18.4
1943	3,343	7/	87	813	900	4,243	3,752	29	633	662	661	79	2,429	18.8
1944	3,750	7/	190	301	491	4,241	3,899	40	629	669	1,218	32	2,012	15.7
1945	4,125	5	150	192	342	4,472	3,910	121	613	734	816	---	2,360	18.3
1946	3,333	1	77	8/485	562	3,896	3,734	229	879	1,108	51	---	2,575	18.6
1947	3,630	7/	134	28	162	3,792	3,624	554	78	632	88	---	2,904	20.4
1948	3,755	7/	168	---	168	3,923	4/3,484	366	79	445	113	---	2,926	20.2
1949	3,107	7/	3/461	1	462	3,569	3,305	310	40	350	36	---	2,919	19.8
1950	3,205	7/	264	---	264	3,469	3,293	161	38	199	74	---	3,020	20.1
1951	3,228	7/	176	---	176	3,404	3,158	229	28	257	146	---	2,755	18.3
1952	3,165	7/	246	---	246	3,411	3,010	152	---	152	156	---	2,702	17.6
1953	2,875	7/	401	---	401	3,276	2,998	157	23	180	103	---	2,715	17.4
1954	2,845	7/	278	7/	278	3,123	2,909	161	---	161	68	---	2,680	16.8
1955	2,922	7/	214	---	214	3,136	2,911	199	---	199	86	---	2,626	16.2
1956	2,953	7/	225	---	225	3,178	2,939	132	115	247	66	---	2,626	15.8
1957	2,873	7/	239	---	239	3,112	2,883	96	139	235	56	---	2,592	15.4
1958	2,751	7/	229	---	229	2,980	2,781	141	54	195	48	---	2,538	14.8
1959	2,743	7/	199	---	199	2,942	2,706	118	44	162	43	---	2,501	14.4
1960	2,666	7/	236	---	236	2,902	2,674	138	42	180	47	---	2,447	13.7
1961	2,631	7/	228	---	228	2,859	2,628	133	47	180	49	---	2,399	13.3
1962	2,409	7/	231	---	231	2,640	2,493	105	52	157	47	---	2,289	12.5
1963 9/	2,374	1	147	---	147	2,522	2,383	80	87	167	41	---	2,175	11.6

1/ 1909-18 interpolated on the basis of Census of Manufactures data for 1909 and 1914. Beginning 1919, from Crop Reporting Board, Production of Manufactured Dairy Products.

2/ 1909-41 based on data by Department of Commerce; 1942-46, from records of USDA and Department of Commerce; beginning 1947, data of Department of Commerce.

3/ Manufacturers' stocks published in Evaporated, Condensed, and Dry Milk Report, CRB. Beginning January 1, 1949, cold storage stocks (bulk condensed milk) published in Cold Storage Report, CRB, were included.

4/ Total supply minus ending stocks. 1948 ending stocks differ from beginning stocks 1949 due to addition of bulk condensed stocks.

5/ Beginning 1955, USDA consists of exports under P. L. 480 and AID programs; all other shipments, whether or not Government-assisted, are listed under commercial.

6/ For welfare purposes, institutions, and the School Lunch Program.

7/ Less than 0.5 million pounds.

8/ Includes 347 million pounds transferred to USDA and 4 million pounds transferred to UNRRA from military stocks in 1946.

9/ Preliminary.

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Table 40.--Dry whole milk: Supply and utilization, 1910-63

Year	Supply						Utilization							
			Beginning stocks					Exports and shipments 5/			Domestic disappearance for food			
												Civilian		
	Production 1/	Imports 2/	Commercial 3/	USDA	Total	Total supply	Total use 4/	Commercial 2/	USDA	Total	Military 6/	USDA donations	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1910	1	---	---	---	---	1	1	---	---	---	---	---	1	0.01
1911	1	---	---	---	---	1	1	---	---	---	---	---	1	.01
1912	2	---	---	---	---	2	2	---	---	---	---	---	2	.02
1913	3	---	---	---	---	3	3	---	---	---	---	---	3	.03
1914	4	---	---	---	---	4	4	---	---	---	---	---	4	.04
1915	4	---	---	---	---	4	4	---	---	---	---	---	4	.04
1916	4	---	---	---	---	4	4	---	---	---	---	---	4	.04
1917	4	---	---	---	---	4	4	---	---	---	---	---	4	.04
1918	4	---	---	---	---	4	4	---	---	---	---	---	4	.04
1919	9	---	---	---	---	9	9	---	---	---	---	---	9	.09
1920	10	---	---	---	---	10	10	2	---	2	---	---	8	.08
1921	4	---	1	---	1	5	4	5	---	5	---	---	7/-1	---
1922	6	8/	1	---	1	7	6	4	---	4	---	---	2	.02
1923	7	1	1	---	1	9	8	1	---	1	---	---	7	.06
1924	8	1	1	---	1	10	9	3	---	3	---	---	6	.05
1925	9	1	1	---	1	11	10	2	---	2	---	---	8	.07
1926	11	2	1	---	1	14	13	2	---	2	---	---	11	.09
1927	11	3	1	---	1	15	14	2	---	2	---	---	12	.10
1928	10	3	1	---	1	14	12	2	---	2	---	---	10	.08
1929	13	3	2	---	2	18	15	3	---	3	---	---	12	.10
1930	15	1	3	---	3	19	15	4	---	4	---	---	11	.09
1931	13	8/	4	---	4	17	15	7	---	7	---	---	8	.06
1932	12	8/	2	---	2	14	11	2	---	2	---	---	9	.07
1933	13	8/	3	---	3	16	13	2	---	2	---	---	11	.09
1934	16	8/	3	---	3	19	17	2	---	2	---	---	15	.12
1935	19	2	2	---	2	23	20	3	---	3	---	---	17	.13
1936	18	4	3	---	3	25	21	3	---	3	---	---	18	.14
1937	14	2	4	---	4	20	17	3	---	3	---	---	14	.11
1938	21	8/	3	---	3	24	20	5	---	5	---	---	15	.12
1939	24	8/	4	---	4	28	24	7	---	7	---	---	17	.13
1940	29	8/	4	---	4	33	28	9	---	9	---	---	19	.14
1941	46	8/	5	---	5	51	45	16	---	16	8	---	21	.16
1942	62	8/	6	---	6	68	61	12	3	15	20	---	26	.20
1943	138	8/	7	---	7	145	125	12	29	41	34	---	50	.39
1944	178	8/	8	12	20	198	170	14	36	50	76	---	44	.34
1945	217	8/	16	12	28	245	178	23	47	70	60	---	48	.37
1946	188	8/	12	9/55	67	255	232	61	93	154	7	---	71	.51
1947	165	8/	18	5	23	188	174	95	10	105	4	---	65	.46
1948	170	8/	12	2	14	184	166	97	15	112	12	---	42	.29
1949	126	8/	18	---	18	144	133	94	---	94	2	---	37	.25
1950	125	8/	11	---	11	136	126	77	---	77	7	---	42	.28
1951	131	9	10	---	10	150	132	70	1	71	20	---	41	.27
1952	102	37	18	---	18	157	142	56	---	56	16	---	70	.46
1953	101	6	15	---	15	122	112	61	---	61	14	---	37	.24
1954	93	8/	10	---	10	103	95	57	---	57	9	---	29	.18
1955	108	8/	8	---	8	116	107	63	---	62	5	---	40	.25
1956	110	8/	9	---	9	119	108	55	1	56	3	---	49	.30
1957	103	8/	11	---	11	114	105	61	3	64	4	---	37	.22
1958	88	8/	9	---	9	97	91	40	1	41	2	---	48	.28
1959	90	8/	6	---	6	96	90	40	8/	40	1	---	49	.28
1960	98	8/	6	---	6	104	97	40	8/	40	2	---	55	.31
1961	82	8/	7	---	7	89	82	30	8/	30	3	---	49	.27
1962	86	8/	7	---	7	93	88	23	3	26	1	---	61	.33
1963 10/	91	8/	5	---	5	96	91	31	11	42	1	---	48	.26

1/ 1910-17, approximated on basis of Census of Manufactures data for 1914 and the estimate for 1918 by Bureau of Agricultural Economics. Beginning 1918, Crop Reporting Board, Production of Manufactured Dairy Products.

2/ Department of Commerce. Exports of milk and cream, powdered or dried, were combined during 1920-31; dry whole milk assumed 57 percent of the total based on the 1932-34 relationship between dry whole milk and nonfat dry milk. Shipments of dry whole milk to Territories for 1928-31 were assumed to be 39 percent of the combined shipments of dried whole and nonfat dry milk, as in 1932-34. Beginning in 1932, export data from U. S. Department of Commerce, except during the World War II period when supplemented and partially replaced by USDA data.

3/ Manufacturers' stocks as published by CRB in Evaporated, Condensed, and Dry Milk Report.

4/ Total supply less ending stocks.

5/ Beginning 1955, USDA consists of P. L. 480 and AID programs; all other shipments, whether or not Government-assisted, are listed under commercial.

6/ Includes military use in civilian feeding programs abroad.

7/ Reported exports and change in stocks exceed production by 1 million pounds.

8/ Less than 500,000 pounds.

9/ Includes 36 million pounds transferred to USDA from military stocks.

10/ Preliminary.

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Table 50.--Nonfat dry milk: Supply and utilization, 1920-63

Year	Supply						Utilization								
			Beginning stocks					Exports and shipments 2/ 6/				Domestic disappearance			
												Food use			
													Civilian		
	Production 1/	Imports 2/	Commercial 3/	USDA 4/	Total	Total supply	Total use 5/	Commercial	USDA	Total	Animal feed 7/	Military 8/	USDA donations 9/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1920	27	---	---	---	---	27	27	1	---	1	---	---	---	26	0.2
1921	25	---	---	---	---	25	25	4	---	4	---	---	---	21	.2
1922	26	1	---	---	---	27	27	3	---	3	---	---	---	24	.2
1923	40	2	---	---	---	42	42	1	---	1	---	---	---	41	.4
1924	45	1	---	---	---	46	46	2	---	2	---	---	---	44	.4
1925	47	4	---	---	---	51	51	2	---	2	---	---	---	49	.4
1926	60	4	---	---	---	64	64	1	---	1	---	---	---	63	.5
1927	77	3	---	---	---	80	80	1	---	1	---	---	---	79	.7
1928	96	1	---	---	---	97	97	2	---	2	---	---	---	95	.8
1929	135	10/	---	---	---	135	135	2	---	2	---	---	---	133	1.1
1930	169	---	17	---	17	186	184	3	---	3	---	---	---	181	1.3
1931	170	10/	22	---	22	192	178	6	---	6	---	---	---	172	1.4
1932	176	10/	14	---	14	190	181	2	---	2	---	---	---	179	1.4
1933	187	10/	9	---	9	196	180	1	---	1	---	---	---	179	1.4
1934	192	10/	16	---	16	208	189	1	---	1	---	---	---	188	1.5
1935	188	10/	19	---	19	207	201	1	---	1	---	---	---	200	1.6
1936	224	20	6	---	6	250	228	2	---	2	---	---	---	226	1.8
1937	245	1	22	---	22	268	247	3	---	3	---	---	---	244	1.9
1938	289	10/	21	---	21	310	282	7	---	7	---	---	---	275	2.1
1939	268	1	28	---	28	297	288	3	---	3	---	---	---	285	2.2
1940	322	10/	9	---	9	331	305	10	---	10	---	---	---	295	2.2
1941	366	10/	26	---	26	392	370	8	30	38	---	7	---	325	2.5
1942	565	10/	19	3	22	587	489	4	133	137	---	17	---	335	2.5
1943	510	10/	26	72	98	608	539	1	234	235	---	31	---	273	2.1
1944	583	10/	22	47	69	652	518	1	220	221	---	104	---	193	1.5
1945	643	10/	38	96	134	777	689	5	193	198	---	243	---	248	1.9
1946	653	10/	14	11/74	88	741	678	12	174	186	---	41	---	451	3.3
1947	678	---	39	24	63	741	710	72	102	174	---	119	2	417	2.9
1948	682	3	15	12/16	31	716	655	33	85	118	---	52	9	485	3.3
1949	935	5	44	17	61	1,001	701	30	56	86	---	134	8	481	3.3
1950	881	3	49	251	300	1,184	899	21	315	336	10	4	28	549	3.7
1951	702	1	22	263	285	988	894	48	182	230	17	10	15	637	4.2
1952	863	1	42	52	94	958	792	39	23	62	7	12	19	711	4.6
1953	1,214	10/	128	38	166	1,380	840	20	158	178	2	11	14	649	4.2
1954	1,334	1	74	466	540	1,875	1,551	8	253	261	571	3	47	716	4.5
1955	1,366	2	56	268	324	1,692	1,442	24	510	534	15	4	84	889	5.5
1956	1,490	1	88	162	250	1,741	1,540	143	511	654	18	4	91	864	5.2
1957	1,624	2	78	123	201	1,827	1,604	192	493	685	21	3	97	895	5.3
1958	1,710	2	86	137	223	1,935	1,692	81	609	690	46	3	135	953	5.6
1959	1,783	2	88	155	243	1,968	1,812	68	623	692	43	3	133	1,074	6.2
1960	1,819	1	96	60	156	1,976	1,593	93	381	474	12	1	107	1,106	6.2
1961	2,020	2	103	280	383	2,405	1,918	106	651	757	23	6	171	1,132	6.2
1962	2,230	1	132	355	487	2,718	2,043	238	661	899	20	4	179	1,120	6.1
1963 13/	2,096	2	99	576	675	2,773	2,286	269	876	1,145	62	2	165	1,077	5.8

1/ Production for food uses prior to 1935 are based on the proportion produced for food in 1936-40 applied to total output as reported by the Crop Reporting Board for 1920-34. Beginning in 1935, from Production of Manufactured Dairy Products, CRB.

2/ Department of Commerce. Exports of milk and cream, powdered or dried, were combined during 1920-31. For these years, exports of nonfat dry milk are assumed 43 percent of the total, based on the reported 1932-34 relationship between dry whole milk and nonfat dry milk. Shipments to Territories of nonfat dry milk for 1928-31 were assumed 61 percent of the combined shipments of dried whole and nonfat dry milk, as in 1932-34. Beginning in 1932, exports from U. S. Department of Commerce, except during the World War II period, when this information was supplemented and partially replaced by USDA data.

3/ Manufacturers' stocks as reported in Evaporated, Condensed, and Dry Milk Report, by CRB.

4/ From records of USDA.

5/ Total supply minus ending stocks.

6/ Beginning 1955, USDA consists of P. L. 480 and AID programs; all other shipments, whether or not Government-assisted, are listed under commercial.

7/ Sold domestically by USDA.

8/ Includes use in civilian feeding programs abroad.

9/ For welfare purposes, institutions, and the School Lunch Program.

10/ Less than 500,000 pounds.

11/ Includes 12 million pounds transferred to UNRRA and FMA from military stocks in 1946.

12/ Includes 5 million pounds purchased by Dairy Products Marketing Association during 1947 and transferred to FMA during 1948.

13/ Preliminary.

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Table 51.--Frozen dairy products: Supply and utilization, 1909-63

Year	Net milk used in frozen dairy products				Product weight of ice cream			
	Production 1/	Domestic disappearance			Production 2/	Domestic disappearance		
		Military	Civilian			Military	Civilian	
			Total	Per capita			Total	Per capita
	Million pounds	Million pounds	Million pounds	Pounds	Million pounds	Million pounds	Million pounds	Pounds
1909	337	---	337	3.7	141	---	141	1.6
1910	428	---	428	4.6	179	---	179	1.9
1911	516	---	516	5.5	216	---	216	2.3
1912	607	---	607	6.4	254	---	254	2.7
1913	695	---	695	7.2	291	---	291	3.0
1914	808	---	808	8.2	338	---	338	3.4
1915	930	---	930	9.3	389	---	389	3.9
1916	1,052	---	1,052	10.3	440	---	440	4.3
1917	1,195	---	1,195	11.6	500	---	500	4.8
1918	1,581	---	1,581	15.1	672	---	672	6.4
1919	1,692	---	1,692	16.1	719	---	719	6.8
1920	1,894	---	1,894	17.8	805	---	805	7.6
1921	1,949	---	1,949	18.0	824	---	824	7.6
1922	2,123	---	2,123	19.3	898	---	898	8.2
1923	2,381	---	2,381	21.3	1,007	---	1,007	9.0
1924	2,381	---	2,381	20.9	1,003	---	1,003	8.8
1925	2,722	---	2,722	23.5	1,128	---	1,128	9.7
1926	2,703	---	2,703	23.0	1,120	---	1,120	9.5
1927	2,882	---	2,882	24.2	1,182	---	1,182	9.9
1928	2,944	---	2,944	24.4	1,194	---	1,194	9.9
1929	3,301	---	3,301	27.1	1,303	---	1,303	10.7
1930	3,040	---	3,040	24.7	1,201	---	1,201	9.8
1931	2,677	---	2,677	21.6	1,064	---	1,064	8.6
1932	1,989	---	1,989	15.9	789	---	789	6.3
1933	1,895	---	1,895	15.1	760	---	760	6.1
1934	2,245	---	2,245	17.8	900	---	900	7.1
1935	2,565	---	2,565	20.2	1,030	---	1,030	8.1
1936	3,054	---	3,054	23.8	1,215	---	1,215	9.5
1937	3,442	---	3,442	26.7	1,368	---	1,368	10.6
1938	3,378	---	3,378	26.0	1,346	---	1,346	10.4
1939	3,625	---	3,625	27.7	1,437	---	1,437	11.0
1940	3,818	---	3,818	28.9	1,501	---	1,501	11.4
1941	4,648	123	4,525	34.3	1,842	49	1,793	13.6
1942	5,455	268	5,187	39.4	2,186	107	2,079	15.8
1943	4,523	521	4,002	31.0	1,910	220	1,690	13.1
1944	4,730	424	4,306	33.5	2,020	181	1,839	14.3
1945	5,176	339	4,837	37.5	2,166	142	2,024	15.7
1946	8,202	186	8,016	57.9	3,269	74	3,195	23.1
1947	7,532	101	7,431	52.1	2,903	39	2,864	20.1
1948	6,722	101	6,621	45.6	2,721	41	2,680	18.5
1949	6,821	123	6,698	45.4	2,651	48	2,603	17.6
1950	6,894	131	6,763	45.0	2,633	50	2,583	17.2
1951	7,001	244	6,757	44.7	2,719	95	2,624	17.4
1952	7,541	281	7,260	47.4	2,845	106	2,739	17.9
1953	7,796	263	7,533	48.3	2,904	98	2,806	18.0
1954	7,746	254	7,492	47.1	2,865	94	2,771	17.4
1955	8,171	271	7,900	48.7	3,017	100	2,917	18.0
1956	8,503	276	8,227	49.7	3,078	100	2,978	18.0
1957	8,578	275	8,303	49.3	3,123	100	3,023	18.0
1958	8,772	278	8,494	49.5	3,159	100	3,059	17.8
1959	9,367	265	9,102	52.2	3,355	95	3,260	18.7
1960	9,453	267	9,186	51.5	3,359	95	3,264	18.3
1961	9,589	257	9,332	51.5	3,357	90	3,267	18.0
1962	9,741	259	9,482	51.6	3,381	90	3,291	17.9
1963 3/	9,944	260	9,684	51.9	3,440	90	3,350	18.0

1/ Estimated beginning 1916 by the Crop Reporting Board on the basis of total quantity of milk fat used in frozen dairy products less quantities supplied in the form of butter and condensed whole milk (duplicated in tables 48 and 52). Estimated duplication prior to 1916 based on duplication in 1924-29 and estimated quantity of ice cream produced 1909-15. 2/ Output 1909-15 approximated on basis of Census of Manufactures for 1914 and Crop Reporting Board estimates for 1916-39; 1940 to date, Crop Reporting Board, Production of Manufactured Dairy Products. Production reported in gallons, converted to pounds assuming a gallon of ice cream weighed 4.7 pounds through 1939 and 4.8 pounds since 1952; slightly lower weights prevailed during the war and early postwar years. 3/ Preliminary.

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Table 52.--Butter: Supply and utilization, 1909-63

Year	Supply						Utilization								
			Beginning stocks 3/				Exports and shipments 5/					Domestic disappearance for food			
	Production 1/	Imports 2/	Commercial	USDA	Total	Total supply	Total use 4/	Commercial	USDA	Total	Use in margarine 6/	Military	Civilian		
													USDA donations 7/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	1,623	1	---	---	---	1,623	1,623	6	---	6	6	---	---	1,611	17.8
1910	1,706	1	---	---	---	1,707	1,707	6	---	6	6	---	---	1,695	18.3
1911	1,762	1	---	---	---	1,763	1,763	9	---	9	6	---	---	1,748	18.6
1912	1,592	1	---	---	---	1,593	1,593	8	---	8	6	---	---	1,579	16.6
1913	1,608	4	---	---	---	1,612	1,612	6	---	6	6	---	---	1,600	16.5
1914	1,685	7	---	---	---	1,692	1,692	7	---	7	5	---	---	1,680	17.0
1915	1,751	2	---	---	---	1,753	1,753	21	---	21	3	---	---	1,729	17.2
1916	1,793	1	49	---	49	1,843	1,794	31	---	31	3	---	---	1,760	17.3
1917	1,644	1	46	---	46	1,691	1,640	11	---	11	4	---	---	1,625	15.7
1918	1,503	1	51	---	51	1,555	1,511	29	---	29	5	---	---	1,477	14.1
1919	1,647	7	44	---	44	1,698	1,644	38	---	38	6	---	---	1,600	15.2
1920	1,574	38	54	---	54	1,666	1,607	21	---	21	4	---	---	1,582	14.9
1921	1,748	18	59	---	59	1,825	1,777	12	---	12	1	---	---	1,764	16.3
1922	1,870	7	48	---	48	1,925	1,898	15	---	15	1	---	---	1,882	17.1
1923	1,993	21	27	---	27	2,041	2,011	10	---	10	2	---	---	1,999	17.8
1924	2,066	19	30	---	30	2,115	2,049	12	---	12	1	---	---	2,036	17.9
1925	2,052	7	66	---	66	2,125	2,103	8	---	8	1	---	---	2,094	18.1
1926	2,132	7	53	---	53	2,192	2,158	8	---	8	2	---	---	2,148	18.4
1927	2,188	8	34	---	34	2,230	2,184	7	---	7	2	---	---	2,175	18.3
1928	2,120	4	46	---	46	2,170	2,126	8	---	8	3	---	---	2,115	17.6
1929	2,184	3	44	---	44	2,231	2,189	8	---	8	3	---	---	2,178	17.6
1930	2,149	3	82	---	82	2,234	2,171	7	---	7	3	---	---	2,161	17.6
1931	2,259	2	63	---	63	2,304	2,277	7	---	7	8/	---	---	2,270	18.3
1932	2,307	1	27	---	27	2,335	2,313	7	---	7	8/	---	---	2,306	18.5
1933	2,375	1	22	---	22	2,398	2,287	6	---	6	8/	---	3	2,281	18.2
1934	2,288	1	111	---	111	2,398	2,351	6	---	6	8/	---	64	2,345	18.6
1935	2,411	23	47	---	47	2,281	2,241	7	---	7	---	---	7	2,234	17.6
1936	2,168	10	40	---	40	2,218	2,157	6	---	6	---	---	3	2,151	16.8
1937	2,135	11	61	---	61	2,207	2,154	6	---	6	---	---	4	2,144	16.8
1938	2,252	2	43	---	43	2,297	2,168	8	---	8	---	---	10	2,150	16.8
1939	2,210	1	129	---	129	2,340	2,285	9	---	9	---	---	10	2,266	17.4
1940	2,240	1	95	---	95	2,336	2,255	11	---	11	---	---	37	2,207	17.0
1941	2,268	4	41	---	41	2,313	2,193	13	---	13	---	72	8	2,110	16.1
1942	2,130	20	114	---	114	2,264	2,239	9	14	23	---	124	37	2,056	15.9
1943	2,015	3	24	1	25	2,043	1,885	6	88	94	---	266	---	1,625	11.8
1944	1,818	2	35	123	158	1,978	1,950	5	91	97	---	331	---	1,532	11.9
1945	1,689	4	51	7	58	1,751	1,690	8	47	55	---	222	---	1,413	10.9
1946	1,503	7	28	13	41	1,550	1,527	6	11	17	---	46	---	1,456	10.9
1947	1,640	4	23	---	23	1,667	1,645	17	---	17	---	28	---	1,600	11.2
1948	1,504	8/	22	---	22	1,526	1,494	8	---	8	---	36	---	1,450	10.0
1949	1,988	8/	32	---	32	1,720	1,587	6	---	6	---	32	5	1,549	10.5
1950	1,648	8/	26	107	133	1,781	1,676	5	23	28	---	24	51	1,614	10.7
1951	1,443	8/	39	66	105	1,548	1,521	4	20	24	---	15	---	1,445	9.6
1952	1,403	8/	14	3	17	1,429	1,356	2	---	2	---	38	---	1,316	8.6
1953	1,607	8/	64	9	73	1,680	1,398	2	24	26	---	44	56	1,269	8.5
1954	1,628	1	30	252	282	1,911	1,532	3	53	56	---	69	91	1,411	8.9
1955	1,545	1	34	344	379	1,925	1,762	8	216	224	---	77	113	1,461	9.0
1956	1,553	3	28	135	163	1,719	1,694	24	160	184	---	70	113	1,440	8.7
1957	1,533	3	23	2	25	1,561	1,474	6	7	13	---	55	64	1,406	8.3
1958	1,480	2	32	55	87	1,575	1,506	8	30	38	---	51	128	1,417	8.3
1959	1,411	2	28	41	69	1,482	1,451	10	19	29	---	51	114	1,371	7.9
1960	1,435	3	20	11	31	1,469	1,392	8	2	10	---	50	83	1,332	7.5
1961	1,536	2	21	56	77	1,615	1,390	7	2	9	---	46	148	1,335	7.4
1962	1,579	2	20	405	425	1,806	1,447	14	28	42	---	64	161	1,341	7.3
1963 9/	1,453	2	31	348	379	1,814	1,543	69	130	199	---	64	169	1,280	6.9

1/ 1909-16 estimates based on data of Census of Manufactures, Census of Agriculture, and market receipts; 1917-38 estimates of factory production based on data from Census of Manufactures, State Departments of Agriculture, and from data received directly from creameries by the Crop Reporting Board; 1939 to date, published by CRB in Production of Manufactured Dairy Products. Farm butter production, 1917-23, estimated primarily from Census of Agriculture and from 1924 to date from reports by farmers and Census data, as published by CRB, in Milk Production, Disposition, and Income. Data prior to 1909 available in U. S. Department of Agriculture Tech. Bul. No. 748, Production and Consumption of Manufactured Dairy Products.

2/ Data of Department of Commerce. Beginning 1956, include butter equivalent of butteroil.

3/ Commercial stocks, as reported in Cold Storage Report, CRB, beginning 1916, and Government stocks, as reported in Cold Storage Report, CRB, beginning 1941, except during World War II, when data were adjusted to include stocks held outside cold storage and to exclude military holdings. 1962-63 include estimates of butteroil, ghee, and anhydrous milk fat held by the Government.

4/ Total supply less ending stocks.

5/ Beginning April 1948 shipments to Alaska and Hawaii were excluded by the Department of Commerce. Export data were supplemented and partially replaced by data from USDA records during World War II. Includes available data on butter equivalent of butteroil, ghee, and anhydrous milkfat. Beginning 1955, USDA consists of exports under P. L. 480 and AID programs; all other shipments, whether or not Government-assisted, are listed under commercial.

6/ Use of butter in margarine prior to 1914 estimated; 1914-16 and beginning 1940 from Bureau of Internal Revenue; 1917-19 (fiscal year data) from Institute of Margarine Manufacturers.

7/ For welfare purposes, institutions, and the School Lunch Program.

8/ Less than 500,000 pounds.

9/ Preliminary.

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changes are used to adjust earlier series based on data collected for 1944 in connection with War Food Administration Order 79. Consumption by military forces is calculated on the basis of probable consumption per person in the Armed Forces. Military procurement records understate use of both fluid milk and ice cream, since most of these items are obtained from local sources rather than through regional Defense Subsistence Supply Centers.

For some purposes, such as measuring the trend of volume of milk sales by handlers, it is desirable to use sales in Government-regulated markets rather than the milk equivalent of fluid milk, cream, and skim milk items combined for the civilian population. Since 1950, it has been assumed that percentage changes in consumption of fluid products under comparable Federal orders are representative of national changes.

Manufactured Dairy Products

SRS reports production of major manufactured dairy products by months, based on a sample of plants. Complete enumerations are made after the close of the calendar year when monthly and annual totals are available for minor products.

Department of Commerce data have been used for exports, shipments to Territories, and imports of dairy products. USDA data on price support and related activities are used to estimate program operations for products in inventory. For a number of minor products, stocks are unavailable; the quantity of product produced during the year is assumed to be used in that year. Military procurement records provide information on the quantities taken by the Armed Forces.

Estimates of the supply and distribution of American cheese include small quantities of part-skim American cheese for which monthly production is not reported currently. A good deal of U. S. consumption is in the form of processed cheese, but disappearance data are in terms of factory weight of natural cheese. Loss of product through shrinkage and waste may be about offset by overrun in processed cheese from natural weight. Tables of supply and distribution of miscellaneous foreign types and for individual American types of cheese are published in Dairy Statistics and its supplements (15).

Consumption of cottage cheese is estimated from production of creamed cottage cheese and an allowance for production from home-produced milk supplies. Per capita estimates are averages for the entire population, rather than for the civilian alone.

Production, stocks, and foreign and military utilization of most canned dairy products are available currently, but production of bulk condensed milk is reported only annually.

Production of ice cream and other frozen dairy products is reported in gallons. These are converted to product weight, assuming (since 1952) that a gallon of ice cream weighs 4.8 pounds. Net milk used to make ice cream and frozen dairy products is published annually in Farm Production, Disposition, and Income (64). This series is obtained by subtracting from the gross quantity of milk used, the quantity of milk equivalent (fat-solids basis) of condensed whole milk and butter used in making ice cream and frozen desserts. In recent years, ice milk has comprised a sizeable proportion of total frozen dairy products consumption.

Consumption of nonfat dry milk excludes dry skim milk (animal feed) production and CCC sales for animal feed. In recent years, a sizable share of nonfat dry milk production has been exported. Virtually all of these exports depend on a subsidy or are donations for relief and charity.

For a number of minor products, only production data are available. The portion of output used for human use is estimated.

Fats and Oils

Food fats and oils include butter, margarine, lard, shortening, cooking and salad oil, and a miscellaneous group consisting mainly of vegetable oils used in mayonnaise and salad dressing. The estimated disappearance of food fats includes

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their use in bakery goods, confectionery, commercial frying (as in the manufacture of potato chips and frozen french fries), mellorine, fish canning, nut salting and roasting, as well as their direct use in hotels, restaurants, institutions, and homes.

In most cases, total domestic civilian disappearance of edible fats and oils is estimated by subtracting the following items from the total suppy: Exports and shipments to Puerto Rico and the Virgin Islands; indirect use (such as lard in shortening and margarine); factory and warehouse stocks at the end of the period; and military use (table 53). Total supply is the sum of domestic production, imports, and factory and warehouse stocks at the beginning of the period, including USDA holdings.

The Census Bureau's fats and oils survey of production, stocks, and consumption was reorganized beginning with January 1959. Major changes in reporting include: (1) A shift from the "intermediate processing" report to an "end-product" one; (2) the addition of salad and cooking oils as an end-product category; and (3) the replacement of "shortening" with a broader category, "baking and frying (shortening)"

Effective with the January 1959 Census report, separate statistics are not available on other intermediate processing of fats and oils. These statistics, which included such processing as hydrogenation, deodorizing, winterizing, or other processing, were only partially complete. Under the revised system, consumption of oils is in terms of the quantities of basic oils moving into specific end products, without any attempt to distinguish the quantities of oils that are further processed prior to consumption. Stocks are in terms of basic oils (crude and once-refined) and end products only. If a further processed oil has not been converted into a specified end product, it is included among the oil stocks from which it originated. Thus, 1959 figures for stocks of refined oils will be comparable to 1958 figures for refined oil, hydrogenated oil, and stearin, if any.

A new end-product category, "salad and cooking oils," was introduced in 1959. This category includes most of the oils formerly reported as used in winterizing or deodorizing. The primary oils used in making salad and cooking oils, as well as their production and stocks, are reported. Only the net amount of oil subject to winterization (total quantity winterized, less the vegetable oil winter stearin produced) is reported as consumed in salad and cooking oils.

Salad or cooking oils are: (1) Manufactured from vegetable oils; (2) deodorized, or winterized and deodorized; and (3) completely liquid at room temperature. This category includes clear oils sold to fish canners and to plants making straight or blended table oils, mayonnaise and salad dressings, potato chips, and some bakery products. Mayonnaise and salad dressing plants, which refine or deodorize their own oil, report the use of oils in making salad or cooking oils and not in making "other edible products" (which formerly included oils used in some mayonnaise processing).

Monthly data are not collected on the ultimate use of salad and cooking oils in making end products. As a result, the total use of oil in "other edible products" will be lower than previously reported by the amount of refined and deodorized oils used in making mayonnaise, or other edible products such as blended table oils and potato chips.

"Baking and frying fats (shortening)": (1) Are manufactured from vegetable oils or edible meat fats; (2) are deodorized, or hydrogenated and deodorized; (3) contain a significant amount of glycerides solid at room temperature; and (4) are sold primarily for baking or frying purposes. Baking or frying fats, only partially covered under previous definitions, include all production of the following items: hydrogenated or deodorized lard, hydrogenated tallow, lard flakes, unplasticized (as well as plasticized) hydrogenated vegetable oil, when shipped (in tank cars or trucks) to bakers or food fryers. Production and stocks data for baking and frying fats exceed those previously reported (before 1959) for shortening because of the new definition which is more inclusive of lard and tallow (beef fats).

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Table 53.--Total food fats and oils (fat content): Supply and utilization, 1921-63

Year	Supply							Utilization							
			Beginning stocks 2/					Exports and shipments				Domestic disappearance for food			
	Production 1/	Imports and inshipments	Commercial	USDA	Total	Nonfood oils used in food products 3/	Total supply	Total use	Commercial	USDA	Total	Nonfood uses of food oils	Military 4/	Civilian: USDA donations	Civilian: Total 5/	Civilian: Per capita 6/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1921	5,183	89	657	---	657	105	6,034	5,501	1,390	---	1,390	202	---	---	3,909	36.0
1922	5,185	84	534	---	534	141	5,944	5,560	1,082	---	1,082	127	---	---	4,351	39.5
1923	5,719	141	7/399	---	7/399	156	6,415	5,989	1,281	---	1,281	125	---	---	4,583	40.9
1924	5,911	118	427	---	427	135	6,591	6,066	1,188	---	1,188	128	---	---	4,750	41.6
1925	5,743	117	525	---	525	122	6,507	6,063	935	---	935	146	---	---	4,982	43.0
1926	6,137	136	445	---	445	170	6,889	6,237	927	---	927	164	---	---	5,146	43.8
1927	6,[illegible]	98	653	---	653	182	7,155	6,317	916	---	916	168	---	---	5,233	44.0
1928	6,004	110	839	---	839	247	7,200	6,415	958	---	958	160	---	---	5,297	44.0
1929	6,[illegible]08	136	785	---	785	309	7,438	6,645	1,005	---	1,005	173	---	---	5,467	44.9
1930	5,981	119	793	---	793	365	7,258	6,497	798	---	798	162	---	---	5,537	45.0
1931	5,[illegible]75	112	760	---	760	325	7,175	6,380	713	---	713	161	---	---	5,506	44.4
1932	6,145	89	796	---	796	242	7,272	6,243	713	---	713	177	---	---	5,353	42.9
1933	6,167	109	1,030	---	1,030	282	7,587	6,303	722	---	722	183	---	---	5,398	43.0
1934	5,561	119	1,283	---	1,283	255	7,213	6,320	529	---	529	170	---	---	5,621	44.5
1935	6,751	498	892	---	892	597	6,737	5,952	157	---	157	182	---	---	5,613	44.1
1936	6,402	345	784	---	784	614	7,145	6,202	175	---	175	177	---	---	5,850	45.7
1937	6,391	443	942	---	942	424	7,201	6,276	211	---	211	202	---	---	5,863	45.5
1938	6,018	212	926	---	926	424	7,580	6,406	294	---	294	232	---	---	5,880	45.3
1939	6,206	125	1,174	---	1,174	377	7,882	6,720	461	---	461	179	---	---	6,080	46.4
1940	6,356	77	1,161	---	1,161	267	7,860	6,644	314	---	314	199	---	---	6,131	46.4
1941	6,634	54	1,215	---	1,215	320	8,224	7,150	246	256	502	259	119	---	6,270	47.6
1942	6,876	105	8/1,074	1	8/1,075	136	8,191	7,280	151	723	874	258	248	---	5,900	44.9
1943	7,708	84	832	78	910	252	8,954	7,653	154	1,326	1,480	398	423	---	5,352	41.5
1944	7,431	119	9/960	341	9/1,301	318	9,169	7,904	202	1,313	1,515	476	658	---	5,255	40.9
1945	6,695	127	895	370	1,265	8	8,095	7,030	216	695	911	410	660	---	5,049	39.1
1946	6,233	19	965	101	1,066	55	7,373	6,656	296	414	710	325	84	---	5,537	40.0
1947	7,057	22	712	5	717	130	7,926	7,183	586	98	684	418	95	---	5,986	42.0
1948	7,339	45	734	8	742	167	8,293	7,383	471	105	576	413	207	---	6,187	42.6
1949	8,486	21	909	1	910	149	9,566	8,531	1,226	157	1,383	528	348		6,272	42.5
1950	8,426	80	10/932	103	10/1,035	193	9,733	8,837	855	363	1,218	585	144	---	6,890	45.9
1951	8,743	41	832	63	895	188	9,867	8,723	1,544	123	1,667	496	194	---	6,366	42.1
1952	8,968	53	1,141	3	1,144	218	10,383	8,864	1,347	22	1,369	579	151	---	6,765	44.1
1953	9,038	47	1,236	283	1,519	203	10,807	8,774	1,142	79	1,221	535	142	---	6,876	44.1
1954	9,146	69	879	1,154	2,033	252	11,500	9,790	1,782	158	1,940	496	116	---	7,238	45.5
1955	9,865	85	837	873	1,720	229	11,889	10,493	2,127	274	2,401	503	130	159	7,459	45.9
1956	10,482	51	1,278	127	1,405	268	12,206	11,091	2,850	135	2,985	495	136	144	7,475	45.2
1957	10,528	54	1,112	2	1,114	280	11,976	10,811	2,766	6	2,772	453	117	63	7,469	44.4
1958	10,627	77	1,122	44	1,166	299	12,169	10,923	2,532	25	2,557	480	116	103	7,770	45.3
1959	12,055	67	1,213	33	1,246	232	13,600	12,288	3,584	16	3,600	508	112	96	8,068	46.2
1960	12,322	71	1,304	9	1,313	224	13,930	12,657	3,940	2	3,942	546	114	116	8,055	45.2
1961	12,338	84	1,227	45	1,272	279	13,973	12,191	3,064	294	3,358	531	126	228	8,176	45.1
1962	13,328	90	1,617	165	1,782	336	15,536	13,517	4,014	442	4,456	544	115	227	8,402	45.7
1963 12/	13,653	49	1,754	264	2,018	295	16,015	13,665	3,944	287	4,231	571	120	232	8,743	46.9

1/ Includes butter (fat content), lard, and other edible oils listed in note 2 of table 57. 2/ Includes rough estimate of stocks of margarine through 1947. No margarine stocks included in 1948 and 1949. 3/ Mainly coconut, palm, palm kernel, and babassu. During World War II, also includes some linseed oil exported to Russia for food. 4/ Includes procurement for civilian relief feeding in occupied areas. 5/ Based on unrounded data. 6/ Civilian only, 1941 to date. 7/ Beginning 1923 includes stocks of shortening not previously available. 8/ Beginning 1942 includes stocks of sunflower and tea seed oils not reported separately in preceding years. 9/ Beginning 1944 includes stocks of secondary or processed edible oils not previously reported separately by the Bureau of the Census. 10/ Includes stocks of margarine as reported by the Bureau of the Census. 11/ Includes estimates of foreign donations of fats and oils not separately reported by the Bureau of Census. 12/ Preliminary.

During 1955-63, the Food for Peace Program (all four titles of P.L. 480) accounted for approximately one-half of the edible vegetable oils (cottonseed and soybean oils) exported from the United States. Foreign donations (Title III, P.L. 480) are not shown separately in Census reports; consequently, these exports were estimated by USDA on the basis of operating records.

Butter

Prior to 1939, production of butter, both on farms and in creameries, was estimated by USDA (table 52). Total output from 1909 to 1916 was estimated from data in the Census of Manufactures and the Census of Agriculture by interpolation on the basis of market receipts at New York and Chicago. For 1917 through 1938, creamery production of butter was estimated by using information from State departments of agriculture, the Census of Manufactures, and original data gathered by the BAE, USDA, with adjustments for known incompleteness. Data for 1939 to date represent virtually complete enumeration. About 97 percent of total butter has been produced by creameries in recent years; farm output has dropped each year in the postwar era.

Butter production on farms was approximated for 1909 through 1923 from information in the Census of Agriculture. Since 1924, it has been estimated by USDA on the basis of reports from voluntary cooperators. Census of Agriculture data were used as benchmarks.

USDA domestic donations of butter for civilian consumption began with 1933. These donations were from CCC supplies, or were bought wholly or partly with Government funds. In recent years, CCC has processed large quantities of butter into butteroil for foreign donations. Because the cold-storage stock report excludes butteroil stocks and because the Bureau of the Census does not report foreign donations (except in grouped categories), USDA has had to develop stock and export estimates for these items to obtain an accurate measurement of domestic butter consumption. Processing butter into butteroil gives a yield of about 80 percent of the original product weight. Estimates developed for butteroil stocks and foreign donations are on a butter-equivalent basis.

Lard

Yearly estimates of lard production in federally inspected establishments, from 1909-20, were based on records of the number of hogs slaughtered by these establishments, data on hog marketings and weights, and data from the Census of Manufactures (table 54). From 1921 to 1936, production of lard by these plants was computed by USDA on the basis of average yields reported by a 90- to 95-percent sample of packers and records of the number of hogs slaughtered under Federal inspection. Since 1937, such production has been reported monthly by the Federal Meat Inspection Service of the Department.

Estimates of annual output of lard by wholesalers and retailers not under Federal inspection, from 1909-45, were based on reports of the Census of Manufactures and other data on hog marketings, weights, and slaughter. Since 1945, this series has been based on monthly reports from these slaughterers as compiled by USDA.

Annual production of lard on farms, 1909-45, was estimated on the basis of estimated number and live weight of hogs slaughtered by farmers. Number and live weight of farm hog slaughter were based partly on reports of the Census of Agriculture and yearly surveys of farm slaughter. Since 1945, estimates have been based on annual USDA farm surveys.

Some lard is used in the manufacture of margarine, shortening, soap, and other products. For 1912-23, quantities used in margarine, shortening, and soap were estimated. For 1924-30, estimates include lard used in margarine and shortening manufacture only. Since 1930, the Bureau of the Census has reported the use of lard in manufactured products.

In recent years, USDA has purchased substantial quantities of lard under Section 32, P.L. 320, for domestic distribution to needy families, schools, and institutions. Estimates of annual distribution of domestically donated lard are shown separately. Some lard has been exported under Title I, P.L. 480; it is included in USDA exports in table 54.

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Table 54.--Lard, including rendered pork fat: Supply and utilization, 1909-63

Year	Supply					Utilization								
		Beginning stocks 1/					Exports and shipments				Domestic disappearance			
											Direct use as lard			
											Military 4/	Civilian		
	Production	Commercial	USDA	Total	Total supply 2/	Total use	Commercial	USDA	Total 3/	Use in margarine, shortening, and nonfood products		USDA donations	Total	Per capita 5/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	1,628	---	---	---	1,628	1,628	501	---	501	6/	---	---	1,127	12.5
1910	1,553	---	---	---	1,553	1,553	397	---	397	6/	---	---	1,156	12.5
1911	1,747	---	---	---	1,747	1,747	609	---	609	6/	---	---	1,138	12.1
1912	1,658	---	---	---	1,658	1,658	556	---	556	33	---	---	1,069	11.2
1913	1,653	---	---	---	1,653	1,653	580	---	580	34	---	---	1,039	10.7
1914	1,554	---	---	---	1,554	1,554	464	---	464	36	---	---	1,054	10.6
1915	1,689	---	---	---	1,689	1,689	492	---	492	40	---	---	1,157	11.5
1916	1,706	63	---	63	1,769	1,688	460	---	460	47	---	---	1,181	11.6
1917	1,451	81	---	81	1,532	1,477	386	---	386	53	---	---	1,038	10.0
1918	1,899	55	---	55	1,954	1,850	558	---	558	53	---	---	1,239	11.8
1919	1,920	104	---	104	2,024	1,962	788	---	788	51	---	---	1,122	10.7
1920	1,958	63	---	63	2,021	1,962	642	---	642	46	---	---	1,274	12.0
1921	2,108	59	---	59	2,167	2,119	903	---	903	45	---	---	1,171	10.8
1922	2,302	48	---	48	2,350	2,301	797	---	797	40	---	---	1,464	13.3
1923	2,718	49	---	49	2,767	2,718	1,074	---	1,074	39	---	---	1,605	14.3
1924	2,660	49	---	49	2,709	2,648	986	---	986	37	---	---	1,625	14.2
1925	2,153	61	---	61	2,214	2,172	719	---	719	32	---	---	1,421	12.3
1926	2,006	42	---	42	2,048	2,198	733	---	733	31	---	---	1,434	12.2
1927	2,263	50	---	50	2,313	2,258	717	---	717	32	---	---	1,509	12.7
1928	2,458	55	---	55	2,513	2,428	801	---	801	36	---	---	1,591	13.2
1929	2,461	85	---	85	2,546	2,464	866	---	866	46	---	---	1,552	12.7
1930	2,317	82	---	82	2,399	2,258	674	---	674	25	---	---	1,559	12.7
1931	2,297	51	---	51	2,348	2,307	601	---	601	19	---	---	1,687	13.6
1932	2,380	51	---	51	2,431	2,390	576	---	576	15	---	---	1,799	14.4
1933	2,474	41	---	41	2,516	2,383	612	---	612	13	---	---	1,758	14.0
1934	2,091	133	---	133	2,224	2,103	458	---	456	10	---	---	1,637	13.0
1935	1,270	118	---	118	1,394	1,342	115	---	115	6	---	---	1,221	9.6
1936	1,679	53	---	53	1,732	1,586	137	---	137	7	---	---	1,442	11.3
1937	1,431	146	---	146	1,577	1,424	163	---	163	3	---	---	1,358	10.5
1938	1,728	54	---	54	1,782	1,674	234	---	234	4	---	---	1,436	11.1
1939	2,037	107	---	107	2,144	1,982	311	---	311	9	---	---	1,662	12.7
1940	2,288	162	---	162	2,450	2,156	232	---	232	23	---	---	1,901	14.4
1941	2,228	94	---	94	2,322	2,304	171	253	424	60	21	---	1,819	13.8
1942	2,401	199	---	199	2,600	2,490	106	579	685	72	46	---	1,688	12.8
1943	2,866	99	11	110	2/2,976	2,680	86	710	796	141	64	---	1,679	13.0
1944	3,004	161	136	297	3,351	2,894	165	749	914	241	156	---	1,583	12.3
1945	2,966	122	534	656	3,622	3,393	101	477	578	112	194	---	1,509	11.7
1946	2,134	70	59	129	2,263	2,193	146	332	478	24	11	---	1,640	11.8
1947	2,402	110	---	110	2,512	2,346	316	86	402	111	40	---	1,792	12.6
1948	2,353	159	8	167	2,488	2,315	248	37	285	123	57	---	1,850	12.7
1949	2,534	173	---	173	2,707	2,577	637	---	637	148	48	---	1,744	11.8
1950	2,631	131	---	131	2,762	2,634	361	152	513	209	25	---	1,891	12.6
1951	2,863	118	9	127	2,990	2,886	689	52	741	247	43	---	1,855	12.3
1952	2,881	104	---	104	2/2,992	2,782	688	1	689	262	14	---	1,817	11.8
1953	2,319	211	---	211	2,566	2,491	465	11	476	238	6	---	1,772	11.4
1954	2,330	72	2	74	2,404	2,300	510	11	521	150	2	---	1,627	10.2
1955	2,660	104	---	104	2,764	2,617	620	---	620	355	3	---	1,639	10.1
1956	2,737	147	---	147	2,904	2,794	627	45	672	494	3	45	1,623	9.8
1957	2,547	116	---	116	2,659	2,508	552	11	563	404	2	11	1,589	9.4
1958	2,426	101	---	101	2,527	2,433	459	---	459	335	3	---	1,640	9.6
1959	2,780	95	---	95	2,875	2,751	669	4	673	540	2	4	1,536	8.8
1960	2,563	124	---	124	2,687	2,593	638	49	681	591	2	49	1,359	7.6
1961	2,517	94	---	94	2,611	2,500	377	108	485	616	2	106	1,396	7.7
1962	2,480	110	---	110	2,590	2,461	416	72	488	654	2	72	1,318	7.2
1963 7/	2,476	128	---	128	2,604	2,484	520	72	594	686	1	72	1,203	6.4

1/ 1916-41, cold storage holdings as reported by U. S. Department of Agriculture; 1942 to date, factory and warehouse stocks as reported by Census. 1943-46, 1948, 1951, and 1954 includes stocks held or in transit by U. S. Department of Agriculture.
2/ Includes imports, which were less than 500,000 pounds in all years except 1943 and 1952, when 1 and 7 million pounds, respectively, were imported.
3/ Includes lard in tuskonka as follows: 20 million pounds in 1943 and 1944, 17 million in 1945, and 7 million in 1946; 1947 to date, includes civilian relief and shipments by CARE.
4/ Includes procurement for civilian relief feeding in occupied areas.
5/ Civilian only, 1941 to date.
6/ Not available.
7/ Preliminary.

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Exports of lard were taken from reports of the Bureau of the Census, except for the war years 1943-46. During this period, USDA reported exports of lard used in tushonka, a canned meat product containing approximately 10-percent lard. It was shipped in substantial volume during World War II to Russia under the Lend-Lease program. Imports before 1912 were available only on a fiscal-year basis. During 1914-21, imports of lard were included with lard compounds (shortening).

Data on stocks of lard before 1916 are not available. From 1916 to 1941, statistics on stocks were compiled from the Cold Storage Report (88). From 1942 to date, stocks reported by Census have been used.

Margarine

In collecting Federal taxes on margarine until July 1, 1950, the Bureau of Internal Revenue required monthly reports on production and shipments by manufacturers. These reports were the basis of data published by the Bureau on production and withdrawals. Withdrawals represent quantities of margarine withdrawn from manufacturers' supplies--that is, shipments to distributors. They were classified into three categories: (1) Tax-paid withdrawals for use in the United States and Territories (Alaska and Hawaii); (2) tax-free withdrawals for export, including shipments to Puerto Rico and the Virgin Islands, and shipments by the Armed Forces to personnel stationed abroad; and (3) tax-free withdrawals for use of the Federal Government. Before 1941, withdrawals by the Federal Government were considered to be entirely for use by U.S. institutions. In 1941-47, these withdrawals also included procurement by the Armed Forces for personnel in the United States and by the USDA for the Red Cross, our wartime allies, and shipment to Puerto Rico and the Virgin Islands.

Through 1947, domestic disappearance was computed from tax-paid withdrawals by subtracting shipments to Alaska and Hawaii (as estimated from reports of the Bureau of the Census) and adding use in Federal institutions (table 55). Withdrawals for use in Federal institutions in 1941-47 were estimated at a million pounds annually. Beginning in 1948, domestic disappearance was computed from data on production, stocks, foreign trade, and military procurement.

Exports for 1909-40 were estimated by subtracting shipments to Puerto Rico from total tax-free withdrawals for export. Shipments to the Virgin Islands were not deducted from exports until 1935, in order to make them consistent with the export data used in the supply and disposition tables for the other fats and oils. Since 1941, exports have been obtained from Bureau of the Census reports, which do not include shipments to Puerto Rico and the Virgin Islands.

No data on stocks were reported before March 1948. However, since figures on production and withdrawals were reported, changes in stocks could be estimated. Primarily, these represent changes in stocks held by manufacturers of margarine. Beginning with 1950, when data on margarine first became available from Census reports, figures on stocks are shown and the apparent disappearance is estimated.

Shortening

Statistics on shortening have been reported under differing titles such as: Lard substitutes, lard compounds and other lard substitutes, lard substitutes and cooking fats, vegetable oil-lard compounds, shortening other than lard, hydrogenated shortening, and baking or frying fats. The varying nomenclature typifies the development of the shortening industry.

The shortening industry after 1909 gradually shifted from production of lard compounds to production of vegetable shortenings, as a result of the introduction of the hydrogenation process into the United States in that year. With this process, shortening could be produced entirely from vegetable oils. At first, vegetable shortening was made mostly from hydrogenated cottonseed oil. But since the early 1930's, soybean oil has become increasingly important in shortening manufacture; by 1944 it became the principal ingredient.

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Table 55.--Margarine (product weight): Supply and utilization, 1909-63

Year	Supply					Utilization							
		Beginning stocks 1/				Exports and shipments 3/				Domestic disappearance for food			
										Civilian			
											Per capita 5/		
	Production	Commercial	USDA	Total	Total supply 2/	Total use 2/	Commercial	USDA	Total	Military 4/	Total	Product weight	Fat content
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.	Lb.
1909	116	---	---	---	116	116	3	---	3	---	113	1.2	1.1
1910	147	---	---	---	147	147	3	---	3	---	144	1.6	1.3
1911	105	---	---	---	105	105	3	---	3	---	102	1.1	.9
1912	142	---	---	---	142	142	3	---	3	---	139	1.5	1.2
1913	152	---	---	---	152	152	2	---	2	---	150	1.5	1.3
1914	141	---	---	---	141	141	2	---	2	---	139	1.4	1.2
1915	142	---	---	---	143	143	4	---	4	---	139	1.4	1.2
1916	188	---	---	---	186	186	3	---	3	---	183	1.8	1.5
1917	287	---	---	---	287	287	3	---	3	---	284	2.7	2.3
1918	351	---	---	---	350	350	3	---	3	---	347	3.3	2.8
1919	369	---	---	---	369	369	15	---	15	---	354	3.4	2.9
1920	369	---	---	---	370	370	6	---	6	---	364	3.4	2.9
1921	215	---	---	---	216	216	1	---	1	---	215	2.0	1.7
1922	185	---	---	---	185	185	1	---	1	---	184	1.7	1.4
1923	228	---	---	---	228	228	2	---	2	---	226	2.0	1.7
1924	232	---	---	---	232	232	2	---	2	---	230	2.0	1.7
1925	234	---	---	---	234	234	2	---	2	---	232	2.0	1.7
1926	243	---	---	---	242	242	2	---	2	---	240	2.0	1.8
1927	277	---	---	---	278	278	2	---	2	---	276	2.3	2.0
1928	317	---	---	---	316	316	2	---	2	---	314	2.6	2.3
1929	356	---	---	---	355	355	2	---	2	---	353	2.9	2.5
1930	326	---	---	---	325	325	2	---	2	---	323	2.6	2.2
1931	230	---	---	---	232	232	2	---	2	---	230	1.9	1.5
1932	203	---	---	---	203	203	1	---	1	---	202	1.6	1.3
1933	245	---	---	---	244	244	1	---	1	---	243	1.9	1.6
1934	264	---	---	---	264	264	1	---	1	---	263	2.1	1.7
1935	382	---	---	---	381	381	1	---	1	---	380	3.0	2.4
1936	393	---	---	---	392	392	1	---	1	---	391	3.1	2.5
1937	397	---	---	---	397	397	6/	---	6/	---	397	3.1	2.5
1938	385	---	---	---	385	385	6/	---	6/	---	385	3.0	2.4
1939	302	---	---	---	302	302	6/	---	6/	---	301	2.3	1.9
1940	320	---	---	---	319	319	1	---	1	---	318	2.4	1.9
1941	368	---	---	---	369	369	5	---	5	---	364	2.8	2.2
1942	426	---	---	---	427	396	3	29	32	---	364	2.8	2.3
1943	614	---	31	7/31	640	612	1	108	8/109	2	501	3.9	3.2
1944	588	---	28	7/28	611	590	1	91	92	1	497	3.9	3.1
1945	614	---	21	7/21	648	622	5	78	8/83	14	525	4.1	3.4
1946	573	---	26	7/26	596	590	4	48	52	5	533	3.9	3.2
1947	746	---	6	7/6	750	750	18	13	31	6	713	5.0	4.1
1948	908	---	6/	6/7/	908	908	14	2	16	5	887	6.1	5.0
1949	862	---	---	---	862	862	7	---	7	4	851	5.8	4.7
1950	937	13	---	13	950	936	7	---	7	11	918	6.1	5.0
1951	1,041	14	---	14	1,055	1,036	6	---	6	34	996	6.6	5.4
1952	1,286	19	---	19	1,305	1,280	7	---	7	54	1,219	7.9	6.5
1953	1,292	25	---	25	1,317	1,295	9	---	9	30	1,256	8.1	6.5
1954	1,364	22	---	22	1,386	1,359	8	---	8	5	1,346	8.5	6.9
1955	1,334	27	---	27	1,361	1,337	8	---	8	6	1,323	8.2	6.6
1956	1,370	24	---	24	1,394	1,367	9	---	9	4	1,354	8.2	6.6
1957	1,463	28	---	28	1,490	1,464	10	---	10	8	1,446	8.6	6.9
1958	1,573	26	---	26	1,599	1,561	9	---	9	3	1,549	9.0	7.3
1959	1,611	38	---	38	1,649	1,616	10	---	10	2	1,604	9.2	7.4
1960	1,695	34	---	34	1,729	1,697	10	---	10	11	1,676	9.4	7.6
1961	1,724	33	---	33	1,756	1,724	9	---	9	7	1,708	9.4	7.6
1962	1,726	33	---	33	1,759	1,720	9	---	9	2	1,709	9.3	7.5
1963 9/	1,744	39	---	39	1,784	1,746	9	---	9	2	1,735	9.3	7.5

1/ Stocks reported by Bureau of the Census beginning 1950.
2/ Adjusted for apparent change in commercial stocks prior to 1950.
3/ Includes voluntary relief shipments beginning in 1947.
4/ Includes some procurement for civilian relief feeding in occupied areas.
5/ Civilian only, 1941 to date.
6/ Less than 500,000 pounds.
7/ Excludes commercial stocks.
8/ Includes American Red Cross procurement for prisoner-of-war packages.
9/ Preliminary.

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Table 56 contains data on the supply and utilization of shortening starting with 1912, when adequate data first became available. Shortening production and stocks have been reported by the Bureau of the Census since 1922.

In recent years, shortening has been shipped under the foreign donation program (Title III, P.L. 480) through charitable agencies (such as CARE and Red Cross), but these exports were not reported separately by Census. The USDA developed estimates of foreign donations, based on CCC and C&MS distribution records, which were added to exports as reported by Census.

Other Fdible Fats and Oils

Other edible fats and oils include principally cottonseed, peanut, soybean, safflower, corn, edible olive oils, and edible beef fats (oleo oil, oleo stock, oleostearine, and edible tallow). They are used in the manufacture of salad and cooking oils, mayonnaise and salad dressings, mellorine, in canning fish products, and in processing potato chips, frozen french fries, and salted nuts. Production, factory and warehouse stocks, and use of these fats and oils in nonfood products have been reported by the Bureau of the Census since 1930. Domestic disappearance for food was calculated from these data and from information on foreign trade (table 57).

Some of the so-called inedible oils--for example, coconut, babassu, palm-kernel, and palm oils--have some food uses For example, coconut oil is used by the confectionery and baking industries. Quantities of such oils used for food each year were estimated from data on factory consumption; some allowances were made for other uses.

Beginning with 1931, the Bureau of the Census has reported factory consumption of fats and oils according to end products. This provides better basis for computation of disappearance in "other edible" uses. Before 1931, considerable estimation was necessary both in the basic source material and by BAE.

Substantial quantities of these fats and oils were used in the manufacture of shortening and margarine, as reported above. As a result, they were deducted in making estimates of the domestic disappearance of other edible fats and oils.

The U.S. Department of Commerce has conducted annual surveys of the salad-dressing-products industry from 1928 to date. The reports trace growth and changes in the industry by analyzing production and distribution of commercially prepared salad dressing products according to type, size of container, average value, monthly distribution of sales, and vegetable oil used by industry.

Peanuts

Production of picked and threshed peanuts is reported on a farmers' stock basis (in shell), whereas data in table 58 are converted to a kernel basis (shelled). A factor calculated annually from shelling outturns is used in making the conversion. Disposition of peanuts consists of exports; crushings for oil and meal; use on farms (other than for food), including seed for planting, farm animal feeding and losses on farms; mill shrinkage; and commercial and farm food uses.

The marketing year for the peanut industry starts August 1 and runs through July 31. However, it varies among the three main producing areas, largely according to seasonal development of the crop. (1) Marketing begins around August 1 in the Southwestern area which produces chiefly the Spanish and Valencias types; (2) marketing commences in mid-August in the Southeastern area which produces mainly the Runner and Spanish types; and (3) around mid-October in the Virginia-Carolina area where the Virginia type is chiefly grown.

Production figures have been published by the Crop Reporting Board since 1909. They are based upon reports by farmers in all peanut-growing sections of the country. They cover picked and threshed peanuts only, and do not include peanuts left on farms to be hogged off. Some farmers plant acreage which they expect to use as pasture for hogs rather than for harvesting nuts.

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Table 56.--Shortening: Supply and utilization, 1912-63

Year	Supply						Utilization						
			Beginning stocks				Exports and shipments			Domestic disappearance for food			
											Civilian		
	Production	Imports and inshipments	Commercial 1/	USDA	Total	Total supply	Total use	Commercial 2/	USDA 3/	Total	Military 4/	USDA donations	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1912	877	5/	---	---	---	877	877	83	---	83	---	---	794	8.3
1913	1,000	6/	---	---	---	1,000	1,000	72	---	72	---	---	928	9.5
1914	1,137	7/1	---	---	---	1,138	1,137	72	---	72	---	---	1,065	10.7
1915	1,075	6/	---	---	---	1,075	1,075	72	---	72	---	---	1,004	10.0
1916	1,027	6/	---	---	---	1,027	1,027	58	---	58	---	---	969	9.5
1917	1,173	6/	---	---	---	1,173	1,231	58	---	58	---	---	1,116	10.8
1918	1,146	7/1	---	---	---	1,147	1,147	52	---	52	---	---	1,095	10.5
1919	1,352	7/4	---	---	---	1,356	1,356	132	---	132	---	---	1,224	11.6
1920	844	6/	---	---	---	844	844	38	---	38	---	---	806	7.6
1921	811	6/	---	---	---	811	811	55	---	55	---	---	756	7.0
1922	784	5/	---	---	---	784	784	49	---	49	---	---	735	6.7
1923	751	5/	16	---	16	767	756	22	---	22	---	---	734	6.6
1924	830	5/	11	---	11	841	821	20	---	20	---	---	801	7.0
1925	1,153	5/	20	---	20	1,173	1,149	29	---	29	---	---	1,120	9.7
1926	1,141	5/	23	---	23	1,164	1,141	24	---	24	---	---	1,117	9.5
1927	1,179	5/	23	---	23	1,202	1,176	20	---	20	---	---	1,156	9.7
1928	1,143	5/	27	---	27	1,170	1,140	15	---	15	---	---	1,125	9.3
1929	1,220	5/	30	---	30	1,250	1,218	14	---	14	---	---	1,204	9.9
1930	1,211	5/	32	---	32	1,243	1,216	14	---	14	---	---	1,202	9.8
1931	1,172	5/	27	---	27	1,199	1,174	11	---	11	---	---	1,163	9.4
1932	945	5/	25	---	25	970	944	8	---	8	---	---	936	7.5
1933	953	5/	26	---	26	979	951	7	---	7	---	---	944	7.5
1934	1,204	5/	27	---	27	1,231	1,204	7	---	7	---	---	1,197	9.5
1935	1,547	8	28	---	28	1,583	1,542	9	---	9	---	---	1,533	12.1
1936	1,587	6	40	---	40	1,633	1,588	8	---	8	---	---	1,580	12.3
1937	1,595	2	45	---	45	1,642	1,595	6	---	6	---	---	1,589	12.3
1938	1,514	2	46	---	46	1,562	1,506	7	---	7	---	---	1,499	11.5
1939	1,404	1	56	---	56	1,461	1,404	8	---	8	---	---	1,396	10.7
1940	1,190	1	57	---	57	1,248	1,194	9	---	9	---	---	1,185	9.0
1941	1,409	1	54	---	54	1,464	1,411	10	2	12	32	---	1,367	10.4
1942	1,300	5/	53	---	53	1,353	1,308	7	7	14	57	---	1,237	9.4
1943	1,438	5/	43	3	46	1,484	1,415	7	74	81	101	---	1,234	9.6
1944	1,363	5/	46	21	67	1,430	1,378	7	18	25	206	---	1,147	8.9
1945	1,441	5/	43	10	53	1,494	1,449	10	8/47	57	217	---	1,175	9.1
1946	1,450	5/	34	9/10	44	1,494	1,453	10	15	25	19	---	1,409	10.2
1947	1,374	5/	41	---	41	1,415	1,362	16	---	16	8	---	1,338	9.4
1948	1,441	5/	53	---	53	1,494	1,427	9	---	9	8	---	1,410	9.7
1949	1,487	5/	67	---	67	1,554	1,472	25	---	25	12	---	1,435	9.7
1950	1,710	5/	82	---	82	1,792	1,689	13	---	13	20	---	1,656	11.0
1951	1,403	5/	104	---	104	1,507	1,405	12	---	12	28	---	1,365	9.0
1952	1,611	5/	101	---	101	1,712	1,619	10	---	10	47	---	1,562	10.2
1953	1,675	---	94	---	94	1,769	1,675	10	6	16	62	---	1,597	10.2
1954	1,961	---	94	---	94	2,055	1,932	11	6	17	45	---	1,870	11.8
1955	1,975	---	1/120	---	1/120	2,095	1,952	42	---	42	47	70	1,863	11.5
1956	1,842	---	143	---	143	1,985	1,863	12	---	12	54	7	1,797	10.9
1957	1,808	---	122	---	122	1,930	1,810	17	---	17	37	---	1,756	10.4
1958	2,006	---	120	---	120	2,126	1,998	33	---	33	30	---	1,935	11.3
1959	2,252	---	127	---	127	2,380	2,264	36	---	36	32	---	2,196	12.6
1960	2,313	---	115	---	115	2,428	2,307	31	---	31	39	---	2,238	12.6
1961	2,496	---	120	---	120	2,576	2,454	21	10/71	92	51	---	2,311	12.8
1962	2,689	---	123	---	123	2,812	2,647	20	10/119	139	39	26	2,469	13.4
1963 11/	2,533	---	165	---	165	2,698	2,578	19	10/47	66	39	24	2,473	13.3

1/ Excludes quantities held by consuming factories beginning 1955.
2/ Includes voluntary relief shipments 1947-49.
3/ Includes estimates of foreign donations not reported separately by the Bureau of the Census.
4/ Includes some procurement for civilian relief feeding in occupied areas.
5/ Less than 500,000 pounds.
6/ Includes a small quantity of lard, but totals less than 500,000 pounds.
7/ Includes a small quantity of lard.
8/ Includes 31 million pounds shortening content of rations transferred by Army to UNRRA in 1945.
9/ Includes 4 million pounds of shortening content of rations in process of transfer by Army to UNRRA.
10/ Includes estimates of foreign donations of shortening not separately reported by the Bureau of the Census.
11/ Preliminary.

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Table 57.--Other edible fats and oils: Supply and utilization, 1931-63 1/

Year	Supply							Utilization									
			Beginning stocks						Exports and shipments						Domestic disappearance for food		
															Civilian		
	Production 2/	Imports and inshipments 3/	Commercial	USDA	Total	Nonfood oils used in food products 4/	Total supply	Total use	Commercial 2/ 3/	USDA 5/	Total	Nonfood uses of food oils	Use in shortening and margarine	Military 6/	USDA donations	Total 7/	Per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1931	1,869	110	628	---	628	325	2,932	2,235	93	----	93	161	1,344	---	---	637	5.1
1932	1,908	88	697	---	697	242	2,935	1,993	122	----	122	177	1,098	---	---	596	4.8
1933	1,780	108	944	---	944	282	3,114	2,082	97	---	97	182	1,140	---	---	663	5.3
1934	1,629	114	1,032	---	1,032	255	3,030	2,323	58	---	58	170	1,410	---	---	685	5.4
1935	1,695	471	706	---	706	597	3,469	2,812	26	---	26	182	1,850	---	---	754	5.9
1936	1,978	331	657	---	657	614	3,580	2,850	24	---	24	177	1,905	---	---	744	6.0
1937	2,242	432	699	---	699	424	3,797	3,009	37	---	37	202	1,918	---	---	852	6.6
1938	2,477	209	788	---	788	424	3,898	2,993	47	---	47	231	1,822	---	---	893	6.9
1939	2,390	123	904	---	904	377	3,794	2,899	135	---	135	179	1,638	---	---	947	7.2
1940	2,265	75	895	---	895	267	3,502	2,670	63	---	63	198	1,426	---	---	983	7.4
1941	2,580	50	831	---	831	320	3,781	3,056	52	1	53	259	1,647	10	---	1,087	8.2
1942	2,760	89	9/727	1	9/728	136	3,713	3,005	28	102	130	257	1,577	45	---	996	7.6
1943	3,219	81	669	38	707	252	4,259	3,537	56	383	439	305	1,890	42	---	861	6.7
1944	2,913	117	10/720	62	10/782	318	4,130	3,423	23	399	422	284	1,794	37	---	886	6.9
1945	3,260	124	704	3	707	8	4,099	3,261	93	70	163	327	1,911	59	---	801	6.2
1946	2,889	13	839	1	840	55	3,797	3,258	129	19	148	323	1,894	11	---	882	6.4
1947	3,335	19	541	---	541	130	4,025	3,522	226	1	227	411	1,877	19	---	988	6.9
1948	3,808	45	502	---	502	167	4,522	3,877	197	66	263	408	2,060	109	---	1,037	7.1
1949	4,593	21	643	1	644	149	5,407	4,701	553	157	710	503	2,066	259	---	1,163	7.9
1950	4,468	80	687	17	704	193	5,445	4,876	471	192	663	538	2,315	63	---	1,297	8.6
1951	4,718	41	567	1	568	188	5,515	4,611	833	55	888	453	2,049	53	---	1,168	7.7
1952	4,958	46	901	1	902	218	6,124	4,991	640	22	662	554	2,421	15	---	1,339	8.7
1953	5,389	47	858	276	1,134	203	6,773	5,153	657	43	700	535	2,488	15	---	1,415	9.1
1954	5,505	68	671	949	1,620	252	7,445	6,289	1,243	98	1,341	495	2,925	14	---	1,514	9.5
1955	5,961	84	560	596	1,156	229	7,430	6,466	1,452	100	1,552	494	2,703	13	---	1,704	10.5
1956	6,475	49	946	18	964	268	7,756	6,919	2,140	6	2,146	491	2,462	20	---	1,800	10.9
1957	6,746	52	837	---	837	280	7,915	7,060	2,169	---	2,169	451	2,589	27	---	1,824	10.8
1958	7,005	75	854	---	854	299	8,233	7,295	2,032	---	2,032	479	2,941	40	---	1,804	10.5
1959	8,139	65	937	---	937	232	9,373	8,350	2,860	---	2,860	496	3,014	34	---	1,945	11.2
1960	8,603	69	1,022	---	1,022	224	9,918	8,948	3,216	---	3,216	531	3,142	24	---	2,035	11.5
1961	8,585	82	970	---	970	279	9,916	8,574	2,646	11/113	2,759	516	3,248	30	---	2,021	11.2
1962	9,577	88	1,341	---	1,341	336	11,342	9,938	3,751	11/228	3,979	530	3,253	21	---	2,155	11.7
1963 12/	10,007	47	1,404	---	1,404	295	11,753	9,889	3,376	11/75	3,451	556	3,223	27	---	2,632	14.1

1/ This category includes fats and oils used in such products as cooking and salad oils, in salad dressing, mayonnaise, baked goods. 2/ Includes the following oils: Cottonseed, peanut, safflower, soybean, corn, sunflower, tea seed, and edible olive; oleo oil, oleo stock, oleo stearine, edible tallow; and oil equivalent of cottonseed, soybeans, and peanuts exported for crushing abroad. 3/ Includes primary oils, secondary or processed oils, and oil equivalent of mayonnaise. 4/ Mainly coconut, palm, palm kernel, and babassu. During 1942, 1943, 1944, and 1945 also includes some linseed oil exported to Russia for food. 5/ Includes some linseed oil exported for food to Russia during World War II. 6/ Includes some procurement for civilian relief feeding in occupied areas. 7/ Based on unrounded data. 8/ Civilian only, 1941 to date. 9/ Beginning 1942 includes stocks of sunflower and tea seed oils not reported separately in preceding years. 10/ Beginning 1944 includes stocks of secondary or processed edible oils not previously reported by the Bureau of the Census. 11/ Includes estimate of foreign donations not separately reported by the Bureau of Census. 12/ Preliminary.

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Table 50.--Peanuts (kernel basis): Supply and utilization, 1909-63

Year 1/	Supply							Utilization							
	Production picked and threshed		Imports and inship-ments	Beginning stocks 4/			Total supply	Total use	Commercial exports and shipments 5/	Seed, feed, farm loss, and shrinkage 6/	Crushed for oil 7/	Domestic food use 9/			
	Farmers' stock basis 2/	Kernel basis 3/		Commercial	USDA	Total						Military 8/	Civilian		
													USDA donations 8/	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	355	237	21	10/	---	10/	258	258	4	33	10/	---	---	221	2.4
1910	384	256	12	10/	---	10/	268	268	5	33	10/	---	---	230	2.5
1911	366	244	11	10/	---	10/	255	255	5	35	10/	---	---	215	2.3
1912	362	241	18	10/	---	10/	259	259	6	35	10/	---	---	218	2.3
1913	383	255	39	10/	---	10/	294	294	7	37	10/	---	---	250	2.5
1914	421	281	18	10/	---	10/	299	299	5	42	10/	---	---	252	2.5
1915	481	321	24	10/	---	10/	345	345	9	52	10/	---	---	284	2.8
1916	666	444	42	10/	---	10/	486	486	19	63	11/(118)	---	---	286	2.8
1917	989	659	67	10/	---	10/	726	726	12	65	11/(215)	---	---	434	4.2
1918	946	631	28	10/	---	10/	659	659	13	58	11/(294)	---	---	294	2.8
1919	688	459	125	10/	---	10/	584	579	11	61	23	---	---	484	4.6
1920	696	464	39	5	---	5	508	504	12	96	75	---	---	321	3.0
1921	678	452	10	4	---	4	466	464	12	82	77	---	---	293	2.7
1922	523	349	35	2	---	2	386	386	6	56	21	---	---	303	2.7
1923	568	379	49	12/	---	12/	428	426	3	46	12	---	---	365	3.2
1924	713	475	70	2	---	2	547	528	3	76	46	---	---	403	3.5
1925	722	481	38	19	---	19	538	507	4	52	33	---	---	418	3.6
1926	622	441	41	13/31	---	13/31	513	496	4	71	23	---	---	398	3.4
1927	844	563	42	13/17	---	13/17	622	572	5	53	41	---	---	473	3.9
1928	844	563	35	13/50	---	13/50	648	574	5	77	37	---	---	455	3.8
1929	898	599	10	14/74	---	14/74	683	636	3	53	81	---	---	499	4.1
1930	697	465	4	14/47	---	14/47	516	516	2	76	46	---	---	392	3.2
1931	1,056	704	1	1	---	1	706	699	5	107	34	---	---	553	4.4
1932	941	627	12/	7	---	7	634	631	3	66	44	---	---	518	4.1
1933	820	547	12/	3	---	3	550	546	1	60	30	---	---	455	3.6
1934	1,014	676	12/	4	---	4	680	676	12/	92	160	---	---	424	3.3
1935	1,153	769	12/	4	---	4	773	772	12/	115	143	---	---	514	4.0
1936	1,260	840	2	.	---	1	843	840	12/	84	166	---	---	590	4.6
1937	1,233	822	3	3	---	3	828	731	1	12	152	---	---	566	4.4
1938	1,289	848	6	97	---	97	951	893	1	128	197	---	---	567	4.3
1939	1,213	826	6	58	---	58	890	744	1	84	81	---	---	578	4.4
1940	1,767	1,192	4	146	---	146	1,342	1,160	1	98	406	---	---	655	5.0
1941	1,475	1,002	1	182	---	182	1,185	1,056	6	197	170	50	---	633	4.8
1942	2,192	1,504	3	129	---	129	1,636	1,425	3	230	288	100	---	804	6.2
1943	2,176	1,466	1	211	---	211	1,678	1,438	23	202	329	150	---	734	5.7
1944	2,081	1,444	38	240	---	240	1,722	1,506	19	206	303	200	---	778	6.0
1945	2,042	1,427	22	216	---	216	1,665	1,409	45	191	277	10	---	886	6.6
1946	2,038	1,407	12/	256	---	256	1,663	1,492	173	204	369	---	---	746	5.3
1947	2,182	1,526	12/	171	---	171	1,697	1,533	337	208	334	2	---	652	4.5
1948	2,336	1,633	12/	160	4	164	1,797	1,655	507	145	331	4	---	668	4.6
1949	1,865	1,325	12/	112	30	142	1,467	1,323	122	154	434	5	---	608	4.1
1950	2,035	1,432	12/	140	4	144	1,576	1,332	48	152	442	10	---	680	4.5
1951	1,659	1,157	0	133	111	244	1,401	1,114	6	99	301	7	---	701	4.6
1952	1,356	926	0	287	0	287	1,213	926	2	103	133	7	---	681	4.4
1953	1,574	1,085	12/	218	69	287	1,372	1,177	165	102	209	7	---	694	4.4
1954	1,008	677	121	172	23	195	993	856	6	94	72	5	6	679	4.2
1955	1,548	1,098	3	137	0	137	1,238	978	4	114	183	1	6	676	4.1
1956	1,607	1,151	4	232	28	260	1,415	1,110	73	114	186	2	5	735	4.4
1957	1,436	1,013	2	203	102	305	1,320	1,082	34	115	168	2	5	763	4.5
1958	1,814	1,284	1	158	80	238	1,523	1,173	44	116	237	6	7	770	4.5
1959	1,588	1,145	12/	217	134	351	1,496	1,214	52	119	211	2	6	830	4.7
1960	1,786	1,274	12/	169	113	282	1,556	1,313	58	110	258	6	8	881	4.9
1961	1,740	1,238	2	174	68	242	1,482	1,227	24	122	181	5	46	895	4.9
1962	1,810	1,286	2	209	46	255	1,543	1,283	30	119	215	6	48	913	4.9
1963 15/	2,022	1,428	2	191	69	260	1,690	1,421	69	133	268	4	43	947	5.0

1/ Beginning September of year indicated 1909-39; year begins in August, 1940 to date. 2/ Production in crop year beginning as follows: Southwestern area, August 1; Southeastern area, September 1; Virginia-Carolina area, November 1. 3/ 1909-37, 66.67 percent was used to convert farmers' stock peanuts to kernel basis; beginning 1938 conversion factors calculated from result of shelling operations in each year. 4/ 1920-37, October 1 stocks in crushing mills as reported by the Bureau of the Census; 1925-30, includes stocks in cold storage warehouses reported by Federal Trade Commission; beginning 1938, September 1 stocks in all positions, and includes oilstock peanuts, as reported by Statistical Reporting Service; beginning 1940 August 1 stocks. USDA stocks are peanuts held by CCC in cold storage. 5/ Shipments to U. S. Territories included beginning 1943 except to Hawaii and Alaska after March 1948, when reporting was discontinued. Exports of oilstock peanuts, which began in 1946, are included. Before 1945, exports of shelled and unshelled peanuts assumed to be in proportion to the domestic disappearance breakdown; beginning 1945 exports of shelled and unshelled reported separately. 6/ Includes adjustment for increase in unreported stocks, mill shrinkage, and for new crop peanuts included in the beginning stocks; derived as a residual item. 7/ Includes edible-grade shelled peanuts crushed, year beginning October prior to 1940. 8/ Peanut equivalent of peanut butter. 9/ Includes consumption of commercially cleaned and shelled peanuts plus quantities used on farms and farm sales for food use. Civilian per capita only, 1941 to date. 10/ Not available. 11/ Estimated from peanut oil production. 12/ Less than 500,000 pounds. 13/ Includes cold storage warehouse stocks as of September 1. 14/ Includes cold storage warehouse stocks as of July 1. 15/ Preliminary.

Data on stocks of peanuts in all commercial positions were not collected by USDA before September 1938. Only stocks at crushing mills and, for a few years, at cold-storage warehouses were available. Beginning in 1919, the Bureau of the Census collected stocks at crushing mills as of October 1. Stocks at cold-storage warehouses were compiled from a report of the Federal Trade Commission. Since 1938, stocks reported by USDA include peanuts held at cleaning, shelling, and crushing mills, in cold-storage and other warehouses, and in peanut-consuming plants. Stocks as of August 1 may include not only the carryover of old-crop peanuts from the previous crop year into the new crop year, but also new-crop peanuts harvested, particularly in the Southwest, and delivered to the mills before August 1.

Imports and exports are on an August-July year basis. They were compiled from the Monthly Summary of Foreign Commerce of the United States (75). Before 1934, the import figures represent general imports minus reexports. Beginning with 1934, the figures are imports for consumption.

Exports of shelled and unshelled peanuts were not reported separately before January 1945. Total exports were allocated between shelled and unshelled peanuts on the assumption that each accounted for the same percentage of total exports as of total domestic disappearance. Virtually all exports go to Canada, where consuming habits presumably resemble those in the United States. Beginning with 1943, shipments of peanuts to U.S. Territories were added to exports.

Before 1938, crushings of peanuts were compiled from reports of the Bureau of the Census. These reports give crushings of hulled and in-the-hull peanuts, by quarters and calendar years. Since no monthly figures on crushings were available, the sum of the quarterly figures from October through September was used for the crop year. Hulled peanuts reported by Census as crushed included oilstock peanuts which are a byproduct of the peanut-shelling industry. Since September 1938, data on crushings and other aspects of peanut production, stocks, and processing have been published by the Crop Reporting Board.

CCC diverts peanuts acquired under the price-support program into crushing, exports, and donations to domestic needy persons and to the school lunch program as peanut butter.

Domestic food use of peanuts includes: (1) Consumption by farm households where grown, for which information is published separately by the Crop Reporting Board; (2) local marketings or direct sale by farmers for edible use, published by the Crop Reporting Board (total sales less sales for seed and less estimated quantities moving into commercial channels); and (3) commercial food uses in peanut butter or candy, for salting and for roasting in the shell.

Estimates of domestic food use for years before 1920 were computed as residuals from data on production, foreign trade, crushings, seed, feed, and farm loss. For 1920-37, estimates of domestic disappearance for food use were made by the Fruit and Vegetable Branch, Production and Marketing Administration (PMA), on the basis of movements from mills and quantities taken by major users. These estimates were raised slightly to the average level of commercial production (total quantity cleaned, shelled, or crushed) as estimated by BAE, and adjusted for imports and exports.

Beginning with 1938, the domestic food use of peanuts was computed by totaling both shelled and cleaned (in-shell) peanuts disappearing into edible use. Edible use of shelled peanuts is a residual obtained by subtracting crushings, exports, and ending stocks from the total of production, imports, and beginning stocks. Similarly, domestic disappearance of cleaned peanuts is a residual from production, stocks, and foreign trade. Estimates of military uses have been compiled primarily from procurement reports submitted to the USDA.

Fruits and Tree Nuts

Fruits

Statistics on production of fruit cover over 25 important kinds of fruits and berries and 5 kinds of edible tree nuts

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grown commercially in this country. Statistics on production in some States began in 1889 for apples; 1899 for peaches; 1900 for cranberries; 1909 for cherries, pears, grapes, apricots, plums and prunes, figs, olives, grapefruit, oranges, lemons, walnuts, and almonds; 1918 for strawberries; 1919 for dates, limes, and pecans; 1920 for tangerines; 1924 for avocados and pineapples; 1927 for filberts; 1936 for nectarines; 1956 for tangelos; and 1960 for Hawaiian bananas, papayas, and Macadamia nuts.

Beginning in 1960, production figures cover all 50 States. Although figures on total production of fresh Hawaiian pineapples are not reported, statistics are available on commercial shipments of fresh pineapples and on output of processed items, accounting for practically all commercial production. Deliveries of processed items to the trade, mostly to the U. S. mainland, were handled as imports or inshipments through 1959 and thereafter as production. The net effect of the shift from a 48- to a 50-State basis upon per capita consumption has been insignificant.

Published statistics represent total production of most fruits, berries, and tree nuts in all the important commercial producing States. Exceptions are apples and strawberries, for which estimates are limited to the commercial crop, and pineapples as explained above. Total consumption of these items was derived from Census of Agriculture data; allowance was made for production in States not included in the reported commercial crop. Statistics on total production of apples were available from 1889 through 1938, and for the commercial crop alone since 1934. Commercial apple production accounted for about four-fifths of total production of apples in 1949, and practically all production in 1959, according to the Census of Agriculture. In several States where production of some of these fruits is minor, and for other minor fruits, no estimates of production were made. Fruits not covered include raspberries, blackberries, blueberries, elderberries, loganberries, boysenberries, youngberries, gooseberries, currants (except for Washington and Oregon), and minor sub-tropical fruits. Home-garden production also was omitted.

Despite these limitations, statistics on U. S. fruit production cover nearly all the important domestic tonnage, particularly during the last 2 decades. The principal source of statistics on production of fruits and tree nuts is the Crop Reporting Board of SRS. Separate estimates are made for each State for important fruits and tree nuts.

Fresh Use of Fruit

Fruit used in the farm household where grown and the quantities sold have been reported by the Crop Reporting Board from growers' reports. Fruit sold for fresh use and that sold for processing have been estimated principally from reports on rail, boat, and truck shipments, reports from processors, and inspection reports. Reports of certain fruit associations also have been used (table 59).

Statistics on utilization as far back as 1909 were fairly complete for California, where most U.S. fruit processing is done. Estimates for fruit utilized in various ways were prepared for other States whenever considerable quantities were used in other than fresh form. All Florida pineapple was assumed used fresh and all dates and olives processed. In some States, all production of some fruits was considered as used fresh. In cases where data were available on packs of processed fruit and not on separate utilization, such pack data were converted to a fresh-equivalent basis and deducted from total production in arriving at the quantity used fresh.

Quantities of fruit used in households of farms where grown were considered as used fresh and were added to the quantities sold for fresh use to obtain the total.

Preserves, jams, jellies, fruit butters, and marmalades constitute a group of fruit spreads. Manufacture of these spreads draws upon fruit material from various sources. Some comes directly from commercial fresh fruit and some from the commercial packs of frozen and

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Table 5.--Fruits used fresh: Supply and utilization, 1909-63

Year	Supply				Utilization							
						Exports and shipments 3/			Domestic disappearance for food			
										Civilian		
	Production	Imports and inshipments	Beginning stocks 1/	Total supply	Total use 2/	Commercial	USDA	Total	Military	USDA donations	Total	Per capita 4/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
					A. Citrus fruits 5/							
1909	1,384	162	---	1,546	1,546		---	81	---	---	1,469	16.2
1910	1,541	182	---	1,723	1,723	78	---	78	---	---	1,645	17.8
1911	1,798	161	---	1,959	1,959	102	---	102	---	---	1,857	19.8
1912	1,719	152	---	1,871	1,871	108	---	108	---	---	1,763	18.5
1913	1,432	260	---	1,692	1,692	78	---	78	---	---	1,614	16.6
1914	2,271	271	---	2,542	2,542	156	---	156	---	---	2,385	24.1
1915	2,278	187	---	2,465	2,465	141	---	141	---	---	2,324	23.1
1916	2,210	190	---	2,400	2,400	157	---	157	---	---	2,243	22.0
1917	2,225	132	---	2,357	2,357	84	---	84	---	---	2,273	22.0
1918	1,645	160	---	1,805	1,805	84	---	84	---	---	1,721	16.5
1919	2,496	140	---	2,636	2,636	166	---	166	---	---	2,470	23.5
1920	2,744	174	---	2,918	2,918	145	---	145	---	---	2,773	26.0
1921	3,385	130	---	3,515	3,515	202	---	202	---	---	3,313	30.5
1922	2,667	190	---	2,857	2,857	143	---	143	---	---	2,714	24.6
1923	3,656	213	---	3,869	3,869	223	---	223	---	---	3,646	32.5
1924	3,964	151	---	4,115	4,115	250	---	250	---	---	3,865	33.9
1925	3,325	235	---	3,560	3,560	209	---	209	---	---	3,351	28.9
1926	3,787	176	---	3,963	3,963	274	---	274	---	---	3,689	31.4
1927	4,039	169	---	4,208	4,208	372	---	372	---	---	3,836	32.2
1928	3,703	148	---	3,851	3,851	294	---	294	---	---	3,557	29.5
1929	5,302	95	---	5,397	5,397	543	---	543	---	---	4,854	39.8
1930	3,942	178	---	4,120	4,120	272	---	272	---	---	3,848	31.2
1931	5,665	106	---	5,771	5,771	521	---	521	---	---	5,250	42.3
1932	4,897	45	---	4,942	4,942	359	---	359	---	---	4,583	36.7
1933	5,277	35	---	5,312	5,312	371	---	371	---	---	4,941	39.4
1934	5,350	44	---	5,394	5,394	370	---	370	---	---	5,024	39.8
1935	6,209	39	---	6,248	6,248	569	---	569	---	---	5,679	44.6
1936	6,341	47	---	6,388	6,388	473	---	473	---	---	5,915	46.2
1937	5,972	41	---	6,013	6,013	283	---	283	---	---	5,730	44.5
1938	7,163	20	---	7,183	7,183	811	---	811	---	---	6,372	49.1
1939	8,693	12	---	8,705	8,705	675	---	675	---	---	8,030	61.4
1940	7,915	25	---	7,940	7,940	445	---	445	---	---	7,495	56.7
1941	8,167	21	---	8,188	8,188	472	---	472	105	---	7,611	57.7
1942	8,332	7	---	8,339	8,339	522	---	522	234	---	7,583	57.7
1943	8,832	7	---	8,839	8,839	551	---	551	519	---	7,769	60.3
1944	10,069	9	---	10,078	10,078	707	---	707	600	---	8,771	68.2
1945	9,932	5	---	9,937	9,937	694	---	694	651	---	8,594	66.6
1946	9,298	8	---	9,306	9,306	854	---	854	269	---	8,183	59.1
1947	9,991	12	---	10,003	10,003	1,002	---	1,002	131	---	8,870	62.2
1948	8,679	14	---	8,693	8,693	704	---	704	93	---	7,896	54.4
1949	7,678	27	---	7,705	7,705	561	---	561	83	---	7,061	47.9
1950	6,758	35	---	6,793	6,793	532	---	532	66	---	6,195	41.3
1951	7,636	20	---	7,656	7,656	721	---	721	114	---	6,821	45.1
1952	7,728	21	---	7,749	7,749	824	---	824	122	---	6,803	44.4
1953	7,838	37	---	7,875	7,875	978	---	978	121	---	6,776	43.4
1954	7,784	13	---	7,797	7,797	929	---	929	108	---	6,560	41.2
1955	7,746	10	---	7,756	7,756	985	---	985	92	---	6,679	41.2
1956	7,600	14	---	7,614	7,614	1,143	---	1,143	111	---	6,360	38.5
1957	7,318	7	---	7,325	7,325	1,103	---	1,103	82	---	6,140	36.5
1958	6,038	55	---	6,093	6,093	789	---	789	79	---	5,225	30.5
1959	6,730	68	---	6,798	6,798	895	---	895	73	---	5,830	33.4
1960	6,776	31	---	6,807	6,807	834	---	834	70	---	5,903	33.1
1961	6,360	40	---	6,400	6,400	858	---	858	63	---	5,479	30.2
1962	6,180	27	---	6,207	6,207	815	---	815	77	---	5,315	28.9
1963 6/	4,852	81	---	4,933	4,933	741	---	741	66	---	4,126	22.1

See footnotes at end of table.

Continued -

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Table 59.--Fruits used fresh: Supply and utilization, 1909-63 -Continued

Year	Supply				Utilization							
						Exports and shipments 3/			Domestic disappearance for food			
										Civilian		
	Production	Imports and inshipments	Beginning stocks 1/	Total supply	Total use 2/	Commercial	USDA	Total	Military	USDA donations	Total	Per capita 4/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
						B. Apples 7/						
1909	5,919	1	311	6,231	5,755	127	---	127	---	---	5,628	62.2
1910	5,687	2	476	6,165	5,736	247	---	247	---	---	5,489	59.4
1911	7,381	1	429	7,811	7,111	210	---	210	---	---	6,901	73.5
1912	7,645	1	700	8,346	7,375	266	---	266	---	---	7,109	74.6
1913	5,634	2	971	6,607	6,045	281	---	281	---	---	5,764	59.3
1914	7,777	4	562	8,343	7,342	226	---	226	---	---	7,116	71.8
1915	7,290	1	1,001	8,292	7,254	319	---	319	---	---	6,935	69.0
1916	6,514	1	1,038	7,553	6,760	247	---	247	---	---	6,513	63.9
1917	6,048	2	793	6,843	5,943	142	---	142	---	---	5,801	56.1
1918	5,855	2	900	6,757	6,038	88	---	88	---	---	5,950	56.9
1919	5,347	22	719	6,088	5,003	251	---	251	---	---	4,754	45.2
1920	7,133	18	1,083	8,234	6,976	265	---	265	---	---	6,711	63.0
1921	3,908	58	1,258	5,224	4,203	285	---	285	---	---	3,918	36.1
1922	6,904	9	1,021	7,934	6,571	245	---	245	---	---	6,326	57.5
1923	7,037	3	1,363	8,403	6,557	433	---	433	---	---	6,124	54.7
1924	6,063	8	1,846	7,917	6,775	601	---	601	---	---	6,174	54.1
1925	6,282	4	1,142	7,428	5,850	489	---	489	---	---	5,361	46.3
1926	8,134	2	1,578	9,714	8,096	783	---	783	---	---	7,313	62.3
1927	4,766	9	1,618	6,393	5,206	752	---	752	---	---	4,454	37.4
1928	6,911	5	1,187	8,103	6,559	662	---	662	---	---	5,897	48.9
1929	5,445	13	1,544	7,002	5,652	815	---	815	---	---	4,837	39.7
1930	6,215	7	1,350	7,572	5,949	769	---	769	---	---	5,180	42.1
1931	7,422	2	1,623	9,047	7,270	861	---	861	---	---	6,409	51.7
1932	5,448	3	1,777	7,228	5,707	819	---	819	---	---	4,888	39.2
1933	5,319	---	1,521	6,840	5,565	536	---	536	---	---	5,029	40.0
1934	4,921	1	1,275	6,197	4,727	457	---	457	---	---	4,270	33.8
1935	6,564	1	1,470	8,035	6,304	535	---	535	---	---	5,769	45.3
1936	4,570	1	1,731	6,302	5,045	406	---	406	---	---	4,639	36.2
1937	7,510	1	1,257	8,768	6,832	363	---	363	---	---	6,469	50.2
1938	5,051	1	1,936	6,988	5,494	536	---	536	---	---	4,958	38.2
						Commercial production only						
1934	3,902	1	1,027	4,930	3,650	457	---	457	---	---	3,193	25.3
1935	4,838	1	1,280	6,119	4,724	535	---	535	---	---	4,189	32.9
1936	3,617	1	1,395	5,013	3,940	406	---	406	---	---	3,534	27.6
1937	5,148	1	1,073	6,222	4,686	363	---	363	---	---	4,323	33.6
1938	3,932	1	1,536	5,469	4,194	536	---	536	---	---	3,658	28.2
1939	4,388	2	1,275	5,665	4,407	386	---	386	---	---	4,021	30.7
1940	4,074	30	1,268	5,372	3,987	69	---	69	---	---	3,918	29.7
1941	4,143	3	1,379	5,521	4,284	58	9	67	40	---	4,177	31.7
1942	4,046	20	1,237	5,302	3,834	44	12	56	85	---	3,693	28.1
1943	3,022	19	1,468	4,509	3,509	19	---	19	272	---	3,218	24.9
1944	4,048	80	1,000	5,110	3,541	13	5	18	227	---	3,286	25.5
1945	3,408	47	1,569	4,914	3,638	46	27	73	203	---	2,953	22.9
1946	3,891	48	776	4,715	3,404	132	---	132	83	---	3,187	23.0
1947	3,939	62	1,313	5,314	3,682	111	---	111	50	---	3,621	25.4
1948	3,334	66	1,431	4,811	3,956	96	---	96	41	---	3,819	26.3
1949	4,072	76	856	5,004	4,770	88	---	88	36	---	3,646	24.7
1950	3,842	107	1,312	5,261	3,593	141	---	141	36	---	3,416	22.7
1951	3,569	86	1,668	5,185	4,125	180	---	180	62	---	3,880	25.7
1952	3,340	68	1,061	4,449	3,486	114	---	114	47	---	3,315	21.6
1953	3,707	82	963	4,752	3,818	57	---	57	61	---	3,755	24.9
1954	3,478	71	956	4,505	3,311	83	---	83	50	---	3,178	20.0
1955	3,384	69	1,194	4,647	3,326	110	---	110	37	---	3,179	19.6
1956	3,122	79	1,411	4,612	3,469	105	---	105	53	---	3,131	18.9
1957	2,698	93	1,576	4,367	3,433	144	---	144	40	---	3,089	19.3
1958	4,07[illegible]	85	1,799	5,911	4,109	206	---	206	34	---	3,867	22.6
1959	3,947	93	1,80[illegible]	5,806	4,194	184	---	184	31	---	4,018	23.0
1960	3,[illegible]47	42	1,61[illegible]	5,126	3,777	174	---	174	31	---	3,572	20.1
1961	3,857	44	1,349	5,250	3,770	189	---	189	30	---	3,351	18.5
1962	3,784	60	1,690	5,494	3,789	186	---	186	33	---	3,568	19.4
1963 5/	3,766	83	1,705	5,554	3,624	148	---	148	33	---	3,433	18.4

See footnotes at end of table.

Continued -

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Table 59.—Fruits used fresh: Supply and utilization, 1909-63 -Continued

Year	Supply				Utilization							
						Exports and shipments 3/			Domestic disappearance for food			
										Civilian		
	Production	Imports and inshipments	Beginning stocks 1/	Total supply	Total use 2/	Commercial	USDA	Total	Military	USDA donations	Total	Per capita 4/
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.
					C. Other fruit 5/							
1909	3,387	1,[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	5,1[illegible]	66.6
1910	3,9[illegible]	1,7[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1911	3,[illegible]	1,9[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1912	[illegible]	1,[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	6,047	64.4
1913	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1914	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	6,300	[illegible]
1915	[illegible]	1,[illegible]	---	[illegible]	[illegible]	--	--	---	--	---	[illegible]	[illegible]
1916	[illegible]	1,[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1917	[illegible]	1,[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1918	[illegible]	1,[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1919	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
[illegible]	[illegible]	1,[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1921	[illegible]	1,[illegible]	---	[illegible]	[illegible]	---	---	---	--	---	[illegible]	[illegible]
1922	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1923	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1924	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1925	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1926	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1927	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1928	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1929	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1930	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1931	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1932	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1933	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1934	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1935	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1936	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1937	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1938	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1939	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1940	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1941	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1942	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1943	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1944	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1945	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1946	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1947	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1948	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1949	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1950	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1951	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1952	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1953	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1954	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1955	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1956	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1957	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1958	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1959	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1960	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1961	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1962	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]
1963 6/	3,687	[illegible]	[illegible]	7,158	7,016	[illegible]	---	[illegible]	[illegible]	[illegible]	6,[illegible]	[illegible]

See footnotes at end of table.

Continued -

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Table 94.--Fruits used fresh: Supply and utilization, 1909-63 -Continued

Year	Supply				Utilization							
						Exports and shipments 3/			Domestic disappearance for food			
										Civilian		
	Production	Imports and inship-ments	Beginning stocks 1/	Total supply	Total use 2/	Commercial	USDA	Total	Military	USDA dona-tions	Total	Per capita 4/
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.
					B. Total fruit 5/							
1909	10,700	1,891	311	12,902	12,496	408	---	408	---	---	12,088	135.0
1910	10,784	1,943	476	13,203	12,773	329	---	329	---	---	12,444	134.7
1911	12,771	1,135	499	14,405	14,033	312	---	312	---	---	13,721	144.6
1912	15,693	1,971	700	18,264	15,993	374	---	374	---	---	15,619	156.7
1913	10,343	1,654	971	13,278	13,016	359	---	359	---	---	12,657	130.1
1914	14,636	1,817	806	17,259	16,876	382	---	382	---	---	16,494	160.4
1915	14,198	1,833	1,001	17,031	15,991	460	---	460	---	---	15,531	150.3
1916	12,087	1,710	1,038	14,835	14,043	404	---	404	---	---	13,639	133.7
1917	12,116	1,616	793	14,525	13,699	426	---	426	---	---	13,273	129.5
1918	10,891	1,626	906	13,399	12,980	173	---	173	---	---	12,807	124.0
1919	11,846	1,731	719	14,296	13,879	417	---	417	---	---	13,462	128.3
1920	13,819	1,917	1,034	16,770	15,601	410	---	410	---	---	15,191	143.0
1921	13,36	1,13	1,236	15,7	15,234	487	---	487	---	---	14,747	137.0
1922	16,487	1,591	1,041	17,719	16,996	449	---	449	---	---	16,547	151.0
1923	15,163	1,643	1,363	18,777	18,041	745	---	745	---	---	17,296	156.7
1924	14,919	1,302	1,846	18,959	17,617	938	---	938	---	---	16,679	150.9
1925	13,940	1,721	1,144	17,403	16,159	813	---	813	---	---	15,346	137.6
1926	17,467	1,937	1,570	21,074	20,004	1,175	---	1,175	---	---	18,829	166.9
1927	13,900	1,907	1,619	17,426	16,240	1,240	---	1,240	---	---	15,000	131.7
1928	16,177	1,977	1,248	20,402	18,701	1,108	---	1,108	---	---	17,593	153.1
1929	17,554	1,910	1,904	19,368	18,469	1,499	---	1,499	---	---	16,970	145.1
1930	16,0	1,977	1,404	18,930	17,428	1,428	---	1,428	---	---	16,000	135.3
1931	15,4	1,9	1,5	18,8	17,400	1,541	---	1,541	---	---	15,859	133.4
19	14,7	1,9	1,5	18,2	17,741	1,5	---	1,3	---	---	16,1	135.9
1933	14,9	1,9	1,5	18,2	17,1	1,5	---	1,5	---	---	15,7	131.6
1934	13,9	1,9	1/1,2	16,3	15,3	979	---	979	---	---	14,3	121.1
1935	15,3	1,9	1,2	18,4	16,7	1,0	---	1,0	---	---	15,749	132.4
1936	14,9	1,9	1,4	18,3	17,179	1,09	---	1,09	---	---	16,0	134.9
1937	14,9	2,1	1,1	18,2	17,710	677	---	677	---	---	17,033	142.0
1938	15,9	1,9	1,0	18,9	17,7	1,241	---	1,241	---	---	16,487	137.7
1939	15,9	1,9	1,3	19,2	18,1	1,1	---	1,1	---	---	16,9	140.4
1940	16,9	1,9	1,5	20,4	19,001	630	---	630	---	---	18,371	152.1
1941	17,9	1,9	1,4	20,8	19,3	683	9	6	169	---	18,	149.3
194	17,9	1,9	1,9	21,6	19,117	644	1	690	87	---	17,3	141.2
1943	15,3	1,9	1,9	17,1	16,3	6	---	6	904	---	15,3	117.4
1944	17,9	1,9	1,9	21,3	19,7	5		614	937	---	17,9	136.3
1945	15,4	1,7	1,9	19,0	17,9	3	7	91	90	---	15,9	113.9
1946	15,4	1,9	1,4	18,8	18,1	1,18	---	1,182	988	---	15,9	114.9
1947	15,4	1,9	1,3	18,6	18,1	1,4	---	1,474	1,00	---	15,6	112.7
1948	15,9	1,9	1,9	19,0	18,1	1,0	---	891	1,3	---	15,9	111.9
1949	16,1	1,9	1,1	19,2	18,073	709	---	709	143	---	16,1	111.1
1950	16,1	1,9	1,3	19,3	17,9	636	---	636	1,4	---	16,4	108.6
1951	15,4	1,9	1,9	19,3	19,0	1,0	---	1,0	1,0	---	17,744	117.4
19	15,7	1,9	1,5	19,2	18,7	1,1	---	1,1	1,5	---	17,441	113.8
1953	15,9	1,9	1/1,1	19,3	18,4	1,0	---	1,0	1,5	---	16,987	108.9
1954	16,9	1,9	1,1	19,2	18,0	1,1	---	1,1	1,0	---	16,610	104.4
19	15,9	1,9	1,3	19,0	17,9	1,3	---	1,3	161	6	16,044	98.9
19	15,9	1,9	1,9	19,4	17,9	1,1	---	1,1	194	4	16,267	98.4
1957	15,1	1,9	1,9	19,0	17,8	1,1	---	1,1	176	---	16,190	96.2
1958	14,4	1,9	1,9	19,4	17,9	1,0	---	1,0	174	---	16,0	93.7
1959	14,9	1,9	1,9	19,0	17,9	1,3	---	1,3	164	---	16,953	97.1
1960	14,1	1,9	1,7	19,6	18,3	1,3	---	1,3	164	---	16,841	94.5
1961	14,1	1,7	1,1	19,0	17,6	1,3	---	1,3	153	9	16,1	89.3
1962	14,9	1,9	1,7	19,0	17,1	1,3	---	1,3	152	16	15,6	84.9
1963 6/	12,9	1,9	1,9	17,0	15,9	1,1	---	1,1	157	7	14,202	76.2

1/ U.S. included from: Apples in 1911 and common storage 1924-35, in cold storage only 1939 to date. Pears included beginning 1928, grapes beginning 1953. 2/ Total supply less ending stocks. Differences between ending stocks of one year and beginning stocks of the following year are caused by change in source of data and coverage (see footnote 1). 3/ Excludes shipments to Hawaii and Alaska beginning 1949. 4/ Civilian per capita only, beginning 1941. 5/ Includes oranges, grapefruit, lemons, limes, tangerines, and, beginning 1954, tangelos. 1909-59, calendar years; 1941 to date, crop years beginning October or November of year prior to that indicated. 6/ Preliminary. 7/ Includes all apples for sale for fresh use and quantities used in farm households 1909-35; series beginning 1936 includes apple production in commercial areas only. 8/ Includes apricots, avocados, bananas, cherries, cranberries, figs, grapes, nectarines, peaches, pears, pineapples, plums, prunes, and strawberries; beginning 1960, includes papayas. 9/ Beginning 1934 includes the 1.4 for apples produced in commercial areas only (see note 7).

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canned fruits. Such material is implicitly included in the fruit consumption data. But a minor part probably comes from unreported production. Such fruit material is not included in the reported consumption of fruit. Commercial production and consumption of fruit spreads may average about 4 pounds per capita, about a third to a half of which is fruit material.

Statistics on cold-storage stocks of fresh apples and pears are obtained as of the end of each month (in early years, the first of the month) by SRS. Data are collected from public, private, and semiprivate warehouses and from fruit-storage plants. The series for apples begins in 1915, and for pears, in 1923. Prior to 1928, however, data for pears were not strictly comparable.

The banana series in this report involve two major changes from those published previously. First, the weights of stems or bunches of bananas have been revised to incorporate new figures on bunch weights, by exporting countries, 1947-61, based largely on Harvard University research. The main result was to increase annual figures on total and per capita consumption moderately for 1947-52 and to a smaller degree for a few years thereafter. Second, all series have been revised to recognize the recent change from bunches to boxes in shipping bananas from producing countries. This means a uniform reduction of 15 percent to allow for weight of central stem, substandard and damaged bananas, and other losses in converting from the bunch basis (bananas on stems) to the box basis (marketable bananas only, in boxes).

Fruits imported or shipped from Territories were added to domestic production and beginning stocks in obtaining total supplies. Other than for bananas, imported fresh fruits comprised only small percentages of total supplies of individual fruits.

Data on foreign trade were principally from the Department of Commerce; use by the military was based on reports from the Armed Forces. Shipments to Hawaii and Alaska during 1948-59 were approximated on the basis of rates before 1948. Adjustments in military and foreign trade data were made for some World War II and early postwar years to allow for transfers from military stocks to UNRRA and other agencies.

Civilian consumption of fruits and berries was calculated as a residual from supplies after all other uses, including carryover stocks, were deducted. Such residual figures contain whatever errors there may be in the supply and utilization figures. Errors probably are largest for individual items of fresh and processed fruits.

Processed Fruits

Data on canned fruits cover apples and applesauce, apricots, cranberries and cranberry sauce, other berries, cherries, olives, peaches, pears, pineapple (including Hawaiian frozen products), plums and prunes, fruit cocktail, mixed fruits, fruit for salad, figs, and citrus sections and salad (table 60). Pack data for most of these items started with 1909; but those for cranberries started with 1919, those for citrus sections with 1921, and those for fruit cocktail and related items with 1923. Data on pineapple shipments from Territories started with 1910 and on imports with 1923.

Pack data for 1909-22 for some canned fruits and up to 1932 for others were obtained from various sources or were derived in various ways. Sources included the Census of Manufactures, Canner-Packer, and Giannini Foundation of Agricultural Economics (62). Among the derived pack figures, those for apricots for 1909-20, for example, were calculated by converting quantities of fresh apricots used for canning, as reported by the Crop Reporting Board, to a net canned-weight basis. Pack figures for later years through 1941 were obtained almost entirely from the National Canners Association. For the war years, 1942-45, estimates of the packs were based upon reports of Government and private agencies. Thereafter, pack data were mainly from the National Canners Association. Figures beginning in 1929 are believed to be fairly complete, accurate, and comparable.

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Table [illegible].—Canned fruit: Supply and utilization, 1909-83 1/

Year	Supply						Utilization							
			Beginning stocks				Exports and shipments				Domestic disappearance for food			
	Production 2/	Imports and inshipments 3/	Commercial 4/	USDA	Total 4/	Total supply	Total use 5/	Commercial 6/	USDA	Total 6/	Military 7/	USDA donations	Civilian Total	Civilian Per capita 8/
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.
1909	287	(NA)	---	---	---	273	273	---	---	---	---	---	273	3.0
1910	264	69	---	---	---	338	338	---	---	---	---	---	338	3.6
1911	275	40	---	---	---	365	365	---	---	---	---	---	365	3.9
1912	247	105	---	---	---	402	402	---	---	---	---	---	402	4.2
1913	280	134	---	---	---	414	414	---	---	---	---	---	414	4.2
1914	378	191	---	---	---	569	569	---	---	---	---	---	569	5.7
1915	336	236	---	---	---	572	572	---	---	---	---	---	572	5.6
1916	459	271	---	---	---	730	730	---	---	---	---	---	730	7.1
1917	609	204	---	---	---	813	813	12	---	12	---	---	801	7.7
1918	590	230	---	---	---	820	820	31	---	31	---	---	789	7.5
1919	856	234	---	---	---	1,094	1,094	64	---	64	---	---	1,030	9.7
1920	720	323	---	---	---	1,043	5/1,043	30	---	30	---	---	1,013	9.4
1921	564	347	4/64	---	4/64	980	5/ 965	72	---	72	---	---	893	8.2
1922	878	289	4/17	---	4/17	1,178	1,036	208	---	208	---	---	828	7.5
1923	758	345	142	---	142	1,274	1,191	168	---	168	---	---	1,023	9.0
1924	796	343	88	---	88	1,277	1,229	204	---	204	---	---	1,022	8.9
1925	1,066	492	51	---	51	1,607	1,553	269	---	269	---	---	1,290	11.1
1926	1,376	471	48	---	48	1,895	1,690	273	---	273	---	---	1,417	12.0
1927	1,154	526	205	---	205	1,887	1,771	262	---	262	---	---	1,509	12.6
1928	1,415	484	116	---	116	2,015	1,858	336	---	336	---	---	1,522	12.6
1929	1,310	443	157	---	157	1,910	5/1,792	290	---	290	---	---	1,502	12.3
1930	1,474	556	4/172	---	4/172	2,106	5/1,864	277	---	277	---	---	1,587	12.8
1931	1,658	579	4/249	---	4/249	1,886	1,611	255	---	255	---	---	1,356	10.9
1932	963	385	275	---	275	1,623	1,525	244	---	244	---	---	1,281	10.2
1933	1,317	502	98	---	98	1,917	5/1,789	303	---	303	---	---	1,486	11.8
1934	1,355	524	4/627	---	4/627	2,551	1,827	242	---	242	---	---	1,585	12.5
1935	1,543	577	724	---	724	2,844	2,060	348	---	348	---	---	1,712	13.4
1936	1,985	656	784	---	784	3,165	2,429	280	---	280	---	---	2,149	16.7
1937	1,796	581	696	---	696	3,267	2,614	266	---	266	---	---	1,748	13.5
1938	1,419	568	1,253	---	1,253	3,236	2,372	360	---	360	---	---	2,012	15.4
1939	1,418	622	864	---	864	3,404	2,456	346	---	346	---	---	2,104	16.1
1940	1,783	656	954	---	954	3,393	2,554	32	---	32	---	---	2,522	19.1
1941	2,306	564	834	---	834	3,704	2,696	44	45	89	256	---	2,351	17.8
1942	2,141	512	1,057	---	1,057	3,710	5/3,034	30	35	65	723	---	2,246	17.3
1943	1,575	4/625	4/1,456	57	4/1,553	3,753	2,475	27	78	105	746	---	1,624	12.6
1944	2,362	4/624	1,238	40	1,278	3,869	2,466	24	131	155	1,120	---	1,191	9.3
1945	1,409	4/347	4/1,364	39	4/1,403	3,659	2,553	38	10/103	141	551	---	1,861	14.4
1946	3,134	504	4/1,570	26	4/1,596	4,749	5/3,286	94	10/47	141	58	---	3,087	22.3
1947	2,919	512	4/1,394	---	4/1,394	4,525	5/2,423	237	6	243	86	---	2,594	18.2
1948	2,500	917	4/1,540	---	4/1,540	4,957	2,944	72	1	73	141	---	2,730	18.8
1949	2,972	915	1,715	---	1,715	5,602	3,101	86	---	86	93	---	2,910	19.7
1950	2,750	859	1,401	---	1,401	5,340	5/3,508	93	---	93	117	---	3,298	22.0
1951	3,128	997	4/1,637	---	4/1,637	5,622	5/3,543	99	2	101	504	---	2,938	19.5
1952	2,787	964	4/1,730	---	4/1,730	5,386	5/3,650	128	2	130	369	---	3,223	21.0
1953	2,838	742	4/1,712	---	4/1,712	5,352	5/3,587	134	3	137	130	---	3,320	21.3
1954	3,037	727	4/1,768	---	4/1,768	5,532	5/3,656	204	2	211	85	---	3,360	21.1
1955	3,459	733	4/1,896	---	4/1,896	6,088	3,994	227	1	228	101	31	3,665	22.6
1956	3,016	778	2,634	---	2,634	6,402	4,121	320	1	321	196	44	3,604	21.8
1957	3,443	789	2,361	---	2,361	6,593	4,184	321	2	323	81	56	3,786	22.4
1958	3,347	862	2,407	---	2,407	6,556	4,410	308	2	370	146	56	3,900	22.8
1959	3,482	822	2,148	---	2,148	6,452	4,345	353	3	356	154	74	3,885	22.3
1960	3/4,345	3/277	2,557	---	2,557	7,174	5/4,553	394	3	397	98	77	4,058	22.8
1961	4,697	226	4/2,644	---	4/2,644	7,567	4,573	477	3	480	152	102	4,241	23.4
1962	4,422	212	2,634	---	2,634	7,835	5,050	672	3	675	162	87	4,213	22.9
1963 11/	4,371	234	2,786	---	2,786	7,391	5,042	583	2	585	144	66	4,313	23.1

1/ Includes apples, applesauce, apricots, berries, cherries (including brined), cranberries, figs, fruit cocktail and salad, citrus sections, olives (including brined), peaches (including spiced), pears, pineapple, plums, and prunes. 2/ Data 1909-42 on pack year basis, production beginning from June to November depending on type of fruit; beginning 1943 on calendar-year basis. 3/ Beginning 1948, trade with Hawaii and Alaska no longer reported; receipts of pineapple from Hawaii are based on deliveries from the industry; beginning 1960, pineapple deliveries are included in production. 4/ Packers' stocks: Major canned fruits, 1921-34, and all items except olives, 1934-47, as reported by Dept. of Commerce; all items except pineapple from 1948 to date from National Canners Association, Florida Canners Association, and Canners League of California. Wholesale distributors' stocks are included beginning 1948, as reported by Department of Commerce. For each year beginning and ending stocks are comparable; years noted indicate differences exist between ending stocks in one year and beginning stocks in the next year, due to changes in coverage of available data. Beginning stocks include the following quantities procured by military agencies and subsequently transferred to nonmilitary agencies: 9 million pounds in 1944, 73 in 1945, and 19 in 1946. 5/ Total supply less ending stocks. See footnote 4. 6/ Beginning 1941, data exclude USDA shipments for lend-lease, UNRRA, and other programs. Beginning 1948, shipments to Hawaii and Alaska are excluded. 7/ Includes quantities procured for military civilian feeding. 8/ Civilian per capita consumption only, 1941 to date. 9/ Includes overseas purchases of canned pineapple by U. S. Armed Forces: 1943, 281 million pounds; 1944, 251; 1945, 108. 10/ Includes quantities transferred from military agencies to UNRRA: 55 million pounds in 1945, 2 million pounds in 1946. 11/ Preliminary.

Among imports of processed fruits, those of canned pineapple, pineapple juice, olives, and dried figs and dates were most important. Because inshipments from Hawaii have not been reported since March 1948, quantities of canned pineapple and pineapple juice had to be estimated for 1948-59. Estimates were based on trade data showing the proportion of Hawaiian packs shipped to the mainland and deliveries to the trade.

Export data on canned fruits came from the Department of Commerce. Beginning January 1, 1922, such data were available for peaches, cherries, pears, plums and prunes, and pineapples. Similar data for apricots began with 1923, apples and applesauce with 1924, fruit cocktail with 1929, and grapefruit with 1931.

Stocks of canned fruits were not reported for 1909-20. Figures on packers' stocks at the end of the season were available for peaches and apricots, 1921-33, and pears, 1922-33, from Deciduous Fruit Statistics of the Giannini Foundation of Agricultural Economics (62). Similar data for cherries, 1930-33, were available from Canner-Packer. Data on season-end stocks of canned fruits held by packers and wholesale distributors, including chain-store warehouses, 1934-46, were available for all canned fruits (except olives) from the Department of Commerce. Such data also were available for the same fruits for January 1, 1943-47. Beginning in 1948, data on packers' stocks for the most important fruits were reported by National Canners Association, and wholesalers' stocks by the Department of Commerce.

Canned fruit juices now covered include grape, pineapple (including Hawaiian frozen juice), apple, prune, fruit nectars, grapefruit, orange, tangerine, lemon and lime, blended orange-and-grapefruit, citrus concentrate, and other fruit juices (table 61). Grape juice was the principal fruit juice packed during 1909-28. For these years, pack estimates were based upon shipments of grapes to grape-juice plants in the producing areas in New York. For 1929-41, pack figures were from the Census of Manufactures; beginning with 1942, they were from Canner-Packer.

Pack statistics began with 1928 for grapefruit juice, 1929 for orange juice, 1934 for lemon and lime juice, prune juice, and fruit nectars, 1935 for blended orange-and-grapefruit juice, 1939 for apple juice, 1940 for citrus concentrate, and 1945 for tangerine and other fruit and berry juices. Data on shipments of canned pineapple juice from Territories to the United States began with 1933.

Data on packs of apple juice were from the National Canners Association; those for other deciduous fruit juices were taken from Canner-Packer; and those for citrus juices were from reports of the Florida Canners' Association, Texas Canners Association, and the Production and Marketing Administration (56). Data on receipts of pineapple juice from Hawaii were from the Department of Commerce. With the discontinuance of such data in March 1948, receipts have been estimated on the basis of the size of the Hawaiian pack and deliveries to the trade.

Data on stocks of most canned noncitrus fruit juices held by packers and wholesale distributors, January 1, 1942-47, were from the Department of Commerce. For earlier years, stocks of noncitrus juices were estimated on the basis of the 1942-46 average percentage relationship between stocks on January 1 and production of the preceding year. Since late 1947, data have not been available on stocks of these fruit juices, and no estimates have been made. For canned orange, grapefruit, and blended orange-and-grapefruit juices, data on stocks held by packers before 1934 were from Canned Citrus Fruit Segments and Juices (56). Data on stocks of these three juices held by both packers and wholesale distributors, 1934-46, were from the Department of Commerce. Beginning with 1947, data on packers' stocks were from the USDA and the Florida Canners Association, and those on distributors' stocks from the Department of Commerce. Figures on stocks of canned lemon and lime juice before 1942 were estimated in the same way as for noncitrus juices. For 1942-46, data on packers' and wholesale distributors' stocks were from the Department of Commerce. Beginning with 1947, only data on packers' stocks of lemon and lime juice were available; they

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Table 1.--Canned fruit juices: Supply and utilization, 1910-63 1/

Year	Supply					Utilization							
			Beginning stocks				Exports and shipments				Domestic disappearance		
											Food use		
												Civilian	
	Production	Imports and inshipments 2/	Commercial 3/	USDA	Total 3/	Total supply	Total use 4/	Commercial 5/	USDA	Total 6/	Military	USDA donations	Total	Per capita 7/
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.
1910	44	---	---	---	---	44	44	---	---	---	---	---	44	0.5
1911	17	---	---	---	---	17	17	---	---	---	---	---	17	.2
1912	43	---	---	---	---	43	43	---	---	---	---	---	43	.5
1913	33	---	---	---	---	33	33	---	---	---	---	---	33	.3
1914	12	---	---	---	---	12	12	---	---	---	---	---	12	.1
1915	61	---	---	---	---	61	61	---	---	---	---	---	61	.6
1916	45	---	---	---	---	45	45	---	---	---	---	---	45	.4
1917	32	---	---	---	---	32	32	---	---	---	---	---	32	.3
1918	47	---	---	---	---	47	47	---	---	---	---	---	47	.4
1919	29	---	---	---	---	29	29	---	---	---	---	---	29	.3
1920	63	---	---	---	---	63	63	---	---	---	---	---	63	.6
1921	37	---	---	---	---	37	37	---	---	---	---	---	37	.3
1922	18	---	---	---	---	18	18	---	---	---	---	---	18	.2
1923	33	---	---	---	---	33	33	---	---	---	---	---	33	.3
1924	14	---	---	---	---	14	14	---	---	---	---	---	14	.1
1925	18	---	---	---	---	18	18	---	---	---	---	---	18	.2
1926	20	---	---	---	---	20	20	---	---	---	---	---	20	.2
1927	38	---	---	---	---	38	38	---	---	---	---	---	38	.3
1928	16	---	---	---	---	16	16	---	---	---	---	---	16	.1
1929	40	---	---	---	---	40	40	---	---	---	---	---	40	.3
1930	40	---	---	---	---	40	40	---	---	---	---	---	40	.3
1931	53	8/	---	---	---	53	4/53	---	---	---	---	---	53	.4
1932	51	8/	4	---	4/4	55	54	---	---	---	---	---	54	.4
1933	60	8/	1	---	1	61	4/57	---	---	---	---	---	57	.5
1934	66	8/	8	---	8/8	74	65	---	---	---	---	---	65	.5
1935	165	104	9	---	9	278	4/253	---	---	---	---	---	253	2.0
1936	178	235	27	---	8/27	440	324	16	---	16	---	---	308	2.4
1937	383	290	116	---	116	789	600	21	---	21	---	---	579	4.5
1938	420	224	189	---	189	833	4/624	27	---	27	---	---	602	4.6
1939	517	314	210	---	8/210	1,041	810	35	---	35	---	---	775	5.9
1940	699	353	231	---	231	1,283	956	41	---	41	---	---	915	7.2
1941	993	396	287	---	287	1,676	1,226	60	4	69	36	---	1,121	8.5
1942	958	271	450	---	450	1,679	1,429	64	98	162	144	---	1,123	8.5
1943	1,465	292	250	---	250	2,007	1,565	17	252	269	339	---	957	7.4
1944	1,653	269	335	107	442	2,364	2,027	15	249	264	435	---	1,328	10.3
1945	1,881	245	304	33	337	2,463	1,995	26	76	102	481	---	1,412	10.9
1946	2,430	309	307	7/161	468	3,207	4/2,643	47	8/103	170	13	---	2,460	17.8
1947	2,130	340	404	3	3/407	2,877	4/2,563	289	8/1	290	42	---	2,231	15.6
1948	2,458	317	331	---	3/331	3,106	2,786	176	---	176	9/131	---	2,479	17.1
1949	2,101	336	320	---	320	2,757	2,536	232	---	232	73	---	2,225	15.1
1950	2,072	331	221	---	221	2,624	2,248	209	---	209	29	---	2,010	13.4
1951	2,399	376	376	---	376	3,151	2,678	271	---	271	168	---	2,239	14.8
1952	1,866	420	473	---	473	2,759	4/2,468	261	---	261	94	---	2,113	13.8
1953	1,924	512	279	---	3/279	2,715	2,451	278	---	278	61	---	2,112	13.6
1954	2,046	421	264	---	264	2,731	4/2,409	293	1	294	24	---	2,091	13.2
1955	1,917	482	377	---	3/377	2,776	2,433	321	---	321	22	---	2,090	12.9
1956	2,147	547	343	---	343	3,037	2,713	386	---	386	37	---	2,290	13.9
1957	2,303	621	324	---	324	3,248	4/2,831	425	---	425	32	---	2,374	14.1
1958	2,094	688	404	---	3/404	3,186	2,904	331	---	331	45	---	2,468	14.4
1959	2,134	621	282	---	282	3,037	2,617	312	---	312	63	---	2,242	12.9
1960	2,774	2/77	420	---	420	3,271	2,842	329	---	329	54	---	2,459	13.8
1961	2,723	36	429	---	429	3,188	2,761	340	---	340	60	---	2,361	13.0
1962	2,797	31	427	---	427	3,255	4/2,829	383	---	383	59	12	2,387	13.0
1963 10/	2,946	69	233	---	3/233	3,248	3,074	326	---	326	60	---	2,688	14.4

1/ Data for 1909 not available; 1910-28, grape juice only; citrus juices begin in 1929; noncitrus juices (apple, berry, nectars, pineapple, and prune) begin in 1934; and pineapple concentrate (converted to single-strength basis) begins in 1957. Data for grape juice, 1910-33 and 1948 to date, and citrus for all years are on a pack year basis, beginning November of year prior to that indicated. Includes concentrated citrus juices on a single-strength basis. Data from National Canners Association, Florida Canners Association, and Canners League of California. 2/ Beginning 1948, receipts of pineapple from Hawaii are based on delivery data from the industry; beginning 1960 pineapple deliveries are included in production. Shipments to Hawaii and Alaska excluded after March 1948. 3/ Beginning 1948, includes only wholesale distributors' stocks of pineapple juice, from Bureau of the Census. Beginning 1955, concentrated citrus juices adjusted to single-strength basis using revised factors. Stocks of California concentrated citrus juice not available since 1959; beginning 1963, estimated quantities are no longer included. Difference, where noted, between beginning stocks in one year and ending stocks in the previous year arose from changes in coverage of available data. 4/ Total supply less ending stocks. Differences between ending stocks and beginning stocks are caused by changes in sources of data and coverage (see footnote 3). 5/ Civilian per capita consumption only, beginning 1941. 6/ Less than 0.5 million pounds. 7/ Includes 103 million pounds transferred from military stocks in 1946. 8/ Includes 86 million pounds shipped to UNRRA in 1946 and 1 million in 1947. 9/ Includes 91 million pounds for military civilian feeding. 10/ Preliminary.

have been obtained from the citrus industry. Data on stocks of citrus concentrate were not available, and no estimates were made.

Data on packs of canned fruit juices, 1909-28, were rough approximations of the size of pack. Pack data for 1929-41 were somewhat better, but it was not always known whether the reported numbers were in terms of standard cases of 24 No. 2 cans or in actual cases of various can sizes. Beginning with 1942, the data are believed to be fairly complete.

Data on Florida chilled (refrigerated) citrus products cover single-strength orange juice, beginning with 1954-55 (table 62). Since then single strength grapefruit juice, orange and grapefruit sections, and citrus salad also are included. Since data apply to products made commercially from fresh fruit in Florida, reconstituted frozen juice or fresh juice produced for local sale are not included. During the early years, only the number of boxes used for each product was reported by Florida Canners' Association. Output was derived by applying the yield per box of frozen and canned products. More recently, output of product has been reported. All production is assumed to be consumed domestically, shortly after manufacture.

Data on frozen fruits cover the commercial packs of apples and applesauce, apricots, red sour cherries, sweet cherries, grapes, peaches, pineapple, plums and prunes, fruit juices, strawberries, blackberries, raspberries, blueberries, loganberries, boysenberries, youngberries, gooseberries, currants, and miscellaneous fruits and berries (table 63). Production of frozen pineapple and pineapple juice in Hawaii is not reported separately, but is included with the canned product. Production of frozen pineapple products is still relatively small but growing.

Data are not available on the quantities of fruit frozen by industrial users, in homes, or in community frozen-food locker plants. Practically all fruit frozen by industrial users and some of that frozen by homemakers were counted with the quantities used "fresh." Although data on total commercial packs were available beginning with 1925, data on individual items first began with 1937, a year of rapid expansion. Beginning with 1937, the data have been fairly complete and constitute generally comparable series.

Frozen fruit packs for prewar years were reported in Canner-Packer. Those for war years were based primarily upon data and reports of the Departments of Commerce and Agriculture, the National Association of Frozen Food Packers, and the Office of Price Administration. Data on frozen fruits and fruit juices for postwar years were from reports of the National Association of Frozen Food Packers, Florida Canners' Association, and surveys by USDA of California-Arizona production.

Quantities of frozen fruits, fruit juices, and berries held in commercial cold-storage warehouses have been reported, as of the end (or first) of each month, in the USDA Cold Storage Report (88). Stocks at the end of each year were reported beginning 1924. But beginning with 1937, data on stocks were available for the important individual items as well as for the total.

Data for dried fruits cover apples, apricots, dates, figs, peaches, pears, prunes, and raisins (table 64). Production data begin with 1909 for all these fruits except for dates, which begin with 1916. Such data were obtained mainly from the Crop Reporting Board, Dried Fruit Association of California, Giannini Foundation of Agricultural Economics, and Canner-Packer (11).

For purposes of calculating supply and utilization, the production figures, which are reported on a natural-condition basis, were converted to a processed-weight basis to allow for such losses as occur in stem removal, cleaning, and moisture standardization. Figures on processed dried fruits also exclude dried prunes used for making canned (mostly glass-packed) prune juice. Foreign trade, stocks, and apparent consumption also are on a processed-weight basis.

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Table 62.--Chilled citrus fruits and juices: Production, 1955-63 1/

Year	Fruits		Year	Juices	
	Production			Production	
	Total	Per capita		Total	Per capita
	Million pounds	Pounds		Million pounds	Pounds
			1955	153	0.9
1956	34	0.2	1956	185	1.1
1957	43	.3	1957	297	1.8
1958	39	.2	1958	281	1.6
1959	42	.2	1959	332	1.9
1960	72	.4	1960	378	2.1
1961	74	.4	1961	305	1.7
1962	79	.4	1962	417	2.3
1963 2/	54	.3	1963 2/	218	1.2

1/ Includes chilled grapefruit and orange sections, citrus salad, and orange and grapefruit juice produced commercially from fresh fruit in Florida. Chilled citrus juice does not include reconstituted frozen juice or fresh juice produced for local sale.

2/ Preliminary.

Table 63.--Frozen fruits and juices: Supply and utilization, 1925-63

Year	Supply				Utilization					
							Domestic disappearance for food			
								Civilian 4/		
	Production 1/	Imports and inshipments	Beginning stocks 2/	Total supply	Total use 3/	Exports and shipments	Military	USDA donations	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
					A. Citrus juices					
1946	10	---	9	19	9	---	---	---	9	0.1
1947	9	---	10	19	9	---	---	---	9	.1
1948	32	---	10	42	12	---	---	---	12	.1
1949	129	---	30	159	139	---	3	---	136	.9
1950	305	---	20	325	235	---	6	---	229	1.5
1951	380	---	90	470	344	---	13	---	331	2.2
1952	583	---	126	709	568	8	19	---	541	3.5
1953	712	---	141	853	667	14	17	---	636	4.1
1954	757	---	186	943	736	19	16	---	701	4.4
1955	839	---	207	1,046	834	21	11	---	802	4.9
1956	898	---	212	1,110	842	28	10	---	804	4.8
1957	937	---	268	1,205	938	33	10	---	895	5.3
1958	749	---	267	1,016	787	39	7	---	741	4.3
1959	1,084	---	229	1,313	991	38	8	---	945	5.4
1960	960	---	322	1,282	1,052	48	10	---	994	5.6
1961	1,036	---	230	1,266	1,008	46	12	---	950	5.2
1962	1,359	---	258	1,627	1,151	52	12	---	1,087	5.9
1963 5/	614	---	476	1,090	805	33	13	---	759	4.1
					B. Noncitrus fruits and juices					
1925	13	---	34	47	23	---	---	---	23	0.2
1926	42	---	24	66	15	---	---	---	15	.1
1927	37	---	51	88	33	---	---	---	33	.3
1928	75	---	55	130	61	---	---	---	61	.5
1929	57	---	69	126	71	---	---	---	71	.6
1930	85	---	55	140	65	---	---	---	65	.5
1931	68	---	75	143	51	---	---	---	51	.4
1932	60	---	92	152	78	---	---	---	78	.6
1933	50	---	74	124	64	---	---	---	64	.5
1934	65	---	60	125	62	---	---	---	62	.5
1935	77	5	63	145	64	---	---	---	64	.5
1936	70	6	81	157	86	---	---	---	86	.7
1937	111	9	71	191	66	---	---	---	66	.5
1938	129	4	125	258	132	---	---	---	132	1.0
1939	141	9	126	276	148	---	---	---	148	1.1
1940	173	11	128	312	169	---	---	---	169	1.3
1941	208	4	143	355	177	---	---	---	177	1.3
1942	196	3	178	377	189	---	6	---	183	1.4
1943	193	4	188	385	158	---	13	---	145	1.1
1944	338	4	227	569	301	---	42	---	259	2.0
1945	447	5	268	720	344	---	46	---	298	2.3
1946	520	4	367	891	430	---	3	---	427	3.1
1947	345	5	461	811	452	---	3	---	449	3.1
1948	373	4	359	736	430	---	7	---	423	2.9
1949	359	7	306	672	391	1	8	---	382	2.6
1950	480	9	281	770	424	1	9	---	414	2.8
1951	422	9	346	777	407	1	18	---	388	2.6
1952	425	13	370	808	494	1	19	---	474	3.1
1953	542	12	314	868	485	3	16	---	466	3.0
1954	523	15	383	921	502	4	14	---	484	3.0
1955	660	15	419	1,094	636	4	19	---	613	3.8
1956	694	14	458	1,166	689	11	25	---	653	4.0
1957	672	15	477	1,164	648	10	21	---	617	3.7
1958	611	17	516	1,144	657	13	22	---	622	3.6
1959	618	18	487	1,123	620	11	20	---	589	3.4
1960	660	33	503	1,196	652	11	16	---	625	3.5
1961	705	37	544	1,286	678	10	21	---	647	3.6
1962	668	39	608	1,315	729	14	23	---	692	3.8
1963 5/	619	42	586	1,247	761	15	20	---	726	3.9

1/ Commercial production only; excludes quantities frozen by industrial users such as hotels, bakeries, and confectioners. Data for 1925-41 from Canner-Packer. Since 1942 all data, except miscellaneous fruits and fruit juices, from National Association of Frozen Food Packers and Florida Canners Association; data on miscellaneous fruits and fruit juices and some citrus juices are based on reports of various canners' associations and USDA survey of citrus industry in California-Arizona.
2/ Derived from USDA cold storage reports; commercial stocks only.
3/ Total supply less ending stocks.
4/ Civilian consumption only 1941 to date.
5/ Preliminary.

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Table 34.--Dried fruits: Supply and utilization, 1909-63 1/

Year	Supply					Utilization								
	Pack 2/	Imports and inship-ments 3/	Beginning stocks: Commer-cial 4/	Beginning stocks: USDA	Beginning stocks: Total 4/	Total supply	Total use 5/	Exports and shipments: Commer-cial 3/	Exports and shipments: USDA	Exports and shipments: Total 3/	Nonfood use	Domestic disappearance: Food use: Mili-tary	Domestic disappearance: Food use: Civilian: USDA dona-tions	Domestic disappearance: Food use: Civilian: Total	Domestic disappearance: Food use: Civilian: Per capita 6/
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.
1909	452	75	---	---	---	527	527	139	---	139	---	---	---	388	4.2
1910	358	83	---	---	---	441	441	119	---	119	---	---	---	322	3.5
1911	405	79	---	---	---	571	571	167	---	167	---	---	---	404	4.3
1912	585	80	---	---	---	668	668	230	---	230	---	---	---	438	4.5
1913	420	85	---	---	---	505	505	142	---	142	---	---	---	363	3.7
1914	463	74	---	---	---	557	557	149	---	149	---	---	---	408	4.1
1915	635	59	---	---	---	694	694	186	---	186	---	---	---	508	5.0
1916	613	53	---	---	---	666	666	140	---	140	---	---	---	526	5.1
1917	734	22	---	---	---	756	756	102	---	102	---	---	---	654	6.3
1918	616	30	---	---	---	646	646	188	---	188	---	---	---	460	4.4
1919	693	116	---	---	---	773	5/379	252	---	252	---	---	---	727	6.9
1920	716	152	33	---	4/33	901	635	112	---	112	---	---	---	723	6.7
1921	521	155	66	---	66	842	5/794	194	---	194	---	---	---	600	5.5
1922	844	123	56	---	4/56	1,123	933	204	---	204	---	---	---	729	6.6
1923	1,008	93	190	---	190	1,291	932	308	---	308	---	---	---	624	5.5
1924	809	127	359	---	359	1,295	1,037	301	---	301	---	---	---	736	6.4
1925	843	129	258	---	258	1,230	1,074	333	---	333	---	---	---	741	6.3
1926	1,080	79	156	---	156	1,335	1,110	386	---	386	---	---	---	724	6.1
1927	1,262	78	225	---	225	1,565	1,057	506	---	506	---	---	---	751	6.3
1928	1,170	93	248	---	248	1,511	1,336	586	---	586	---	---	---	750	6.2
1929	889	81	175	---	175	1,145	5/971	325	---	325	---	---	---	646	5.3
1930	1,132	66	175	---	4/175	1,373	1,184	516	---	516	---	---	---	668	5.4
1931	997	60	189	---	189	1,246	1,054	467	---	467	---	---	---	587	4.7
1932	1,064	60	192	---	192	1,336	1,077	396	---	396	---	---	---	681	5.4
1933	1,002	56	259	---	259	1,317	1,058	400	---	400	---	---	---	658	5.2
1934	855	67	259	---	259	1,181	955	310	---	310	---	---	---	645	5.1
1935	1,173	68	226	---	226	1,467	1,173	416	---	416	---	---	---	757	5.9
1936	920	72	294	---	294	1,286	1,053	354	---	354	---	---	---	699	5.4
1937	1,193	63	233	---	233	1,489	1,194	441	---	441	---	---	---	753	5.8
1938	1,178	56	295	---	295	1,529	1,190	468	---	468	---	---	---	722	5.5
1939	1,128	53	339	---	339	1,520	1,158	322	---	322	---	---	---	836	6.4
1940	865	47	362	---	362	1,214	983	117	69	186	---	---	---	797	6.0
1941	904	17	231	---	231	1,152	5/767	90	242	332	---	65	---	570	4.3
1942	1,615	2	243	20	4/263	1,880	1,544	18	313	331	---	163	---	550	4.2
1943	1,308	1	82	154	236	1,545	1,276	28	349	377	---	7/135	---	764	5.9
1944	1,106	28	8/161	108	8/269	1,403	1,260	78	278	356	---	7/120	---	784	6.1
1945	957	47	2/117	26	2/143	1,177	5/1,081	241	23	264	---	7/10	---	807	6.0
1946	975	56	2/47	1	4/48	1,079	957	297	1	298	---	21	---	638	4.5
1947	1,103	26	120	2	122	1,251	1,067	127	21	148	---	10/385	---	534	3.7
1948	872	43	106	78	184	1,099	901	120	107	227	---	10/96	---	578	3.9
1949	907	40	108	90	198	1,145	1,070	266	34	300	75	10/92	---	603	4.1
1950	695	68	75	---	75	838	740	107	---	107	1	20	---	612	4.1
1951	904	57	98	---	98	1,059	967	305	---	305	75	6	---	581	3.8
1952	880	45	92	---	92	1,017	881	272	---	272	2	15	---	592	3.8
1953	811	59	136	---	136	1,006	839	232	9	241	2	4	---	592	3.8
1954	738	64	167	---	167	969	829	167	---	167	36	3	---	623	3.9
1955	785	66	140	---	140	985	853	261	---	261	1	3	4	588	3.6
1956	840	68	132	---	132	1,040	871	248	---	248	3	3	11/	617	3.7
1957	714	62	169	---	169	945	847	216	---	216	18	2	---	611	3.6
1958	599	67	98	---	98	764	695	119	---	119	49	4	---	523	3.0
1959	778	59	69	---	69	906	777	194	---	194	6	2	---	575	3.3
1960	694	78	129	---	129	901	779	216	---	216	---	3	2	560	3.1
1961	758	62	122	---	122	942	821	243	---	243	---	6	11/	572	3.1
1962	722	58	121	---	121	901	763	197	---	197	---	3	10	563	3.0
1963 12/	13/775	73	138	---	138	986	847	212	---	212	72	3	11/	560	3.0

1/ Includes apples, apricots, dates, figs, peaches, pears, prunes, raisins, currants and other dried grapes. Exclude. unmerchantable figs beginning 1927 and substandard prunes, 1929-41. 2/ Based on data from the Crop Reporting Board, Dried Fruit Association of California, Giannini Foundation of Agricultural Economics, and Canner-Packer. Production figures for dates not available until 1916. Beginning 1942, excludes quantities used for juice and concentrate from total prune production. 3/ July-June basis 1909-39, September-August thereafter. Data on shipments to U. S. territories begin in 1929. Beginning 1943 adjusted to include pitted dates on a "with pits" basis. Beginning 1948 trade with Hawaii and Alaska no longer reported. 4/ Packers' stocks only 1920-41, compiled from reports of the Giannini Foundation of Agricultural Economics; 1942-45 include packers' and distributors' holdings reported by Department of Commerce, and beginning 1946 includes packers' stocks estimated by the Fruit and Vegetable Division, AMS. For each year beginning and ending stocks are comparable; difference, where noted, beginning stocks in one year and ending stocks in the preceding year arose from changes in coverage of available data. 5/ Total supply less ending stocks. See footnote 4. 6/ Civilian per capita only, beginning 1941. 7/ Adjusted to exclude quantities transferred to nonmilitary agencies: 1943, 3 million pounds; 1944, 42 million pounds; and 1945, 2 million pounds. 8/ Includes 3 million pounds transferred in 1944 by military to nonmilitary agencies. 9/ Includes quantities transferred by military: 1945, 42 million pounds; and 1946, 2 million pounds. 10/ Includes quantities for civilian feeding in areas occupied by our Armed Forces: 1947, 372 million pounds; 1948, 86 million pounds; and 1949, 90 million pounds. 11/ Less than 0.5 million pounds. 12/ Preliminary. 13/ Excludes 14,000 tons (dried weight) of rain-damaged raisins.

Data on packers' stocks of dried fruits at the end of season, 1920-41, were from the Giannini Foundation of Agricultural Economics. For 1942-45, data on stocks of both packers and wholesale distributors were from the Department of Commerce. Beginning with 1946, only data on packers' stocks have been available. They were compiled by PMA and C&MS. No adjustments were made for unavailable data on stocks. In prewar years, distributors' stocks probably did not change much from year to year. Since 1946, changes in distributors' stocks may have had a greater bearing on actual consumption.

Tree Nuts

Data on tree nuts are available beginning with 1909 on imports of the four domestic items--almonds, walnuts, pecans, filberts--and on other tree nuts--Brazil, cashews, pignolias, pistaches, chestnuts, and miscellaneous tree nuts (table 65). Data on exports, which constitute only a small percentage of domestic production, are available beginning with 1922. All trade data are on a fiscal-year basis; they come from the Department of Commerce. No data are available on stocks. Domestic production of tree nuts is reported on an unshelled basis while imports are reported partly on an unshelled and partly on a shelled basis. Beginning in 1960, U. S. supplies of tree nuts include Hawaiian Macadamias.

Consumption data were computed on an in-the-shell weight basis by the usual disappearance method. To arrive at the shelled weights, or kernel yield of tree nuts reported in the shell, these percentages were used:

Almonds, domestic, 50 percent (45 percent from 1909-49); imports, 30 percent.

Filberts, domestic, 40 percent (45 percent from 1909-49); imports, 45 percent.

Pecans, domestic, improved varieties, 40 percent; seedlings and imports, 36 percent.

Walnuts, domestic, 39 percent; imports, 42 percent.

Chestnuts, 84 percent.

Pignolias, 77 percent.

Brazil and pistache nuts, 50 percent.

Cashews, 22 percent.

Macadamias, 38 percent.

Miscellaneous nuts, 40 percent.

Melons

Sources of data for melons are the same as those for fresh vegetables, to be discussed in the next section. Total melon production has been estimated by the Crop Reporting Board for the years 1919 to date (table 66). Data represent commercial production on acreage grown primarily for sale. Melons grown in farm and nonfarm gardens are excluded.

In developing estimates of per capita consumption, allowance is made for production not harvested or not marketed, but not for the quantities used in frozen form. Lack of supply data precludes estimates of processed melon consumption.

Foreign trade data from official Census Bureau reports include shipments from Puerto Rico beginning in 1938. Shipments to Territories are included throughout the period, except for those to Hawaii and Alaska since 1948.

Military use of melons in 1941 and 1942 was based on Navy issues per man per day in this country. Beginning in 1943, they were based on reported procurement by market centers and supplementary information on local purchases.

Vegetables

Fresh Vegetables

Data on total fresh market production, estimated by the Crop Reporting Board for 1919 to date (table 67), represent commercial production on acreage grown primarily for sale. Greenhouse production of

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Table 65.--Tree nuts: Supply and utilization, crop year, 1909-63 1/

Year beginning July	Nuts in the shell: Supply: Production 2/	Supply: Imports	Supply: Total	Utilization: Exports and shipments 3/	Utilization: Military	Utilization: Civilian	Utilization: Per capita 4/	Loss in shelling	Domestic disappearance (shelled basis): Civilian	Domestic disappearance (shelled basis): Per capita 4/
	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.	Mil. lb.	Mil. lb.	Lb.
1909	23	148	171	---	---	171	1.9	98	73	0.8
1910	27	138	165	---	---	165	1.8	96	69	.7
1911	29	143	172	---	---	172	1.8	98	74	.8
1912	32	126	158	---	---	158	1.6	92	66	.7
1913	28	161	189	---	---	189	1.9	107	82	.8
1914	24	142	166	---	---	166	1.7	95	71	.7
1915	37	148	185	---	---	185	1.8	106	79	.8
1916	37	165	202	---	---	202	2.0	122	80	.8
1917	42	166	208	---	---	208	2.0	125	83	.8
1918	54	153	207	---	---	207	2.0	128	79	.8
1919	145	238	383	---	---	383	3.6	230	153	1.4
1920	68	170	238	---	---	238	2.2	133	105	1.0
1921	107	266	373	---	---	373	3.4	218	155	1.4
1922	88	238	326	5	---	321	2.9	185	136	1.2
1923	134	249	383	6	---	377	3.3	216	161	1.4
1924	103	247	350	4	---	346	3.0	197	149	1.3
1925	141	223	364	5	---	359	3.1	207	152	1.3
1926	160	221	381	6	---	375	3.2	214	161	1.4
1927	165	166	331	6	---	325	2.7	193	132	1.1
1928	152	208	360	5	---	355	2.9	205	150	1.2
1929	150	183	333	7	---	326	2.7	193	133	1.1
1930	145	186	331	8	---	323	2.6	192	131	1.1
1931	187	182	369	10	---	359	2.9	218	141	1.1
1932	195	126	321	7	---	314	2.5	186	128	1.0
1933	175	142	317	26	---	291	2.3	179	112	.9
1934	177	163	340	13	---	327	2.6	202	125	1.0
1935	267	214	481	19	---	462	3.6	289	173	1.4
1936	177	237	414	19	---	395	3.1	250	145	1.1
1937	286	197	483	16	---	467	3.6	291	176	1.4
1938	227	211	438	18	---	420	3.2	265	155	1.2
1939	287	199	486	14	---	472	3.6	293	179	1.4
1940	261	246	507	7	---	500	3.8	320	180	1.4
1941	292	206	498	7	---	491	3.7	315	176	1.3
1942	265	65	330	3	2	325	2.5	199	126	1.0
1943	315	78	393	8	2	383	2.9	241	142	1.1
1944	360	183	543	10	13	520	4.0	335	185	1.4
1945	354	239	593	31	8	554	4.1	361	193	1.4
1946	330	251	581	17	2	562	3.9	354	208	1.5
1947	337	245	582	12	5/	570	3.9	356	214	1.5
1948	402	294	696	12	5/	684	4.6	433	251	1.7
1949	409	285	694	13	5/	681	4.6	423	258	1.7
1950	340	371	711	11	5/	700	4.6	453	247	1.7
1951	410	291	701	11	5/	690	4.5	433	257	1.7
1952	415	312	727	16	5/	711	4.6	451	260	1.7
1953	419	327	746	26	5/	720	4.6	461	259	1.6
1954	348	392	740	38	5/	702	4.4	462	240	1.5
1955	394	400	794	22	5/	772	4.7	504	268	1.6
1956	441	311	752	40	5/	712	4.3	453	259	1.6
1957	374	415	789	32	5/	757	4.4	504	253	1.5
1958	405	417	822	25	5/	797	4.6	523	274	1.6
1959	456	395	851	56	5/	795	4.5	516	279	1.6
1960	460	387	847	36	5/	811	4.5	527	284	1.6
1961	541	358	899	29	5/	870	4.8	553	317	1.7
1962	346	402	748	31	5/	717	3.9	473	244	1.3
1963 6/	668	416	1,084	52	5/	7/952	5.1	619	333	1.8

1/ Includes almonds, filberts, pecans, walnuts, Brazil nuts, pignolia, pistache, chestnuts, cashews, miscellaneous tree nuts, and beginning 1960 macadamias; excludes coconuts.

2/ Includes almonds, filberts, walnuts, pecans, and beginning 1960, macadamias. Excludes quantities unharvested on account of economic conditions, sent to oil mills, and culls and blows not used.

3/ Beginning 1948 excludes shipments to Territories.

4/ Civilian per capita only, 1942-46.

5/ Small quantities but adequate data not available.

6/ Preliminary.

7/ Adjusted to exclude an excess 80 million pounds of pecans estimated to have been held in stocks on August 1, 1964.

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Table 66.--Melons: Supply and utilization, 1919-63 1/

Year	Supply			Utilization						
							Domestic food use			
								Civilian		
	Production 2/	Imports and inshipments	Total supply	Total use	Commercial exports and shipments 3/	Not marketed	Military	USDA donations	Total	Per capita 4/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1919	2,610	---	2,610	2,610	---	---	---	---	2,610	24.8
1920	3,385	---	3,385	3,385	---	---	---	---	3,385	31.8
1921	3,789	---	3,789	3,789	---	---	---	---	3,789	34.9
1922	4,111	---	4,111	4,111	---	---	---	---	4,111	37.3
1923	3,260	---	3,260	3,260	---	---	---	---	3,260	29.1
1924	4,076	---	4,076	4,076	---	---	---	---	4,076	35.7
1925	3,986	---	3,986	3,986	---	---	---	---	3,986	34.4
1926	4,278	---	4,278	4,278	---	---	---	---	4,278	36.4
1927	3,666	---	3,666	3,666	---	---	---	---	3,666	30.8
1928	3,695	---	3,695	3,695	---	---	---	---	3,695	30.6
1929	3,905	---	3,905	3,905	---	---	---	---	3,905	32.1
1930	4,208	---	4,208	4,208	---	142	---	---	4,066	33.0
1931	4,143	---	4,143	4,143	---	79	---	---	4,064	32.8
1932	3,795	---	3,795	3,795	---	415	---	---	3,380	27.1
1933	3,263	---	3,263	3,263	---	83	---	---	3,180	25.3
1934	3,248	---	3,248	3,248	---	3	---	---	3,245	25.6
1935	3,561	---	3,561	3,561	23	84	---	---	3,454	27.2
1936	3,449	5	3,454	3,454	28	35	---	---	3,391	26.4
1937	3,802	5	3,807	3,807	31	63	---	---	3,713	28.8
1938	3,738	5	3,743	3,743	25	190	---	---	3,528	27.2
1939	3,374	5	3,379	3,379	27	16	---	---	3,336	25.4
1940	3,643	4	3,647	3,647	25	113	---	---	3,509	26.5
1941	3,287	4	3,291	3,291	26	16	19	---	3,230	24.5
1942	3,021	3	3,024	3,024	23	1	42	---	2,958	22.5
1943	2,928	3	2,931	2,931	24	---	98	---	2,809	21.8
1944	3,734	4	3,738	3,738	36	1	95	---	3,606	28.0
1945	3,971	3	3,974	3,974	48	2	85	---	3,839	29.7
1946	4,309	8	4,317	4,317	53	5	26	---	4,233	30.6
1947	4,205	8	4,213	4,213	50	159	12	---	3,992	28.0
1948	3,983	6	3,989	3,989	5/4	12	16	---	3,957	27.3
1949	3,993	14	4,007	4,007	5/2	16	18	---	3,971	26.9
1950	3,973	15	3,988	3,988	49	190	17	---	3,732	24.8
1951	4,033	14	4,047	4,047	50	11	43	---	3,943	26.1
1952	4,021	20	4,041	4,041	54	---	44	---	3,943	25.7
1953	4,471	36	4,507	4,507	68	---	43	---	4,396	28.2
1954	4,782	55	4,837	4,837	81	104	46	---	4,606	29.0
1955	5,036	69	5,105	5,105	85	200	23	---	4,797	29.6
1956	4,607	105	4,712	4,712	60	96	19	---	4,537	27.4
1957	4,132	86	4,218	4,218	86	---	21	---	4,111	24.4
1958	4,969	100	5,069	5,069	92	439	17	---	4,521	26.3
1959	4,262	135	4,397	4,397	94	7	16	---	4,280	24.5
1960	4,645	187	4,832	4,832	112	142	14	---	4,564	25.6
1961	4,446	155	4,601	4,601	112	---	12	---	4,477	24.7
1962	4,478	180	4,658	4,658	94	287	13	---	4,264	23.2
1963 6/	4,743	212	4,955	4,955	114	192	32	---	4,617	24.7

1/ Excludes produce of farm and nonfarm home gardens.

2/ Estimated total commercial production for all States.

3/ Shipments to Hawaii not reported after March 1948. Beginning 1950 excludes all shipments to Territories.

4/ Civilian consumption only, beginning 1941.

5/ Low figure due to Canadian import embargo in 1948 and most of 1949. Figure for 1948 includes estimate of shipments to Hawaii.

6/ Preliminary.

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vegetables is included, but the quantity of vegetables grown in farm and nonfarm home gardens is not. Although total production was not officially estimated for 1909-18, the Department approximated aggregate annual production, taking into account available data from the 1909 census and production trends after 1918.

Official production estimates are based primarily on data obtained from growers and others associated with the production and marketing of vegetables. Data secured from other public agencies on the acreage, movement, and sale of these crops also are used. Census of Agriculture data are considered in establishing acreage levels in census years.

Fresh market estimates for some crops include production which has been used for processing. In developing estimates of per capita consumption of such items, a deduction is made to cover the farm-weight equivalent of vegetables processed. Production not harvested because of economic conditions also is deducted.

Only for cabbage and onions are stocks used in developing estimates of annual fresh vegetable consumption. Official estimates of January stocks of dry onions have been published since 1918, and of cabbage since 1922. Beginning January 1, 1953, stocks of cabbage have been reported for New York State only.

Data on foreign trade, derived from official reports of the Bureau of the Census, include shipments from Puerto Rico beginning in 1938. Shipments to the Territories are included throughout the period, except for those to Hawaii and Alaska since March 1948 when reporting ceased.

Estimates of fresh vegetables purchased by the Armed Forces in 1941 and 1942 were based on Navy issues per man per day in this country. Beginning with 1943, they were based on reported procurement by market centers and supplementary information on local purchases.

Processed Vegetables

Estimates of the supply of canned vegetables were based on pack data for nearly all items (table 68). Before 1919, pack data for most vegetables were available for 1909 and 1914 from the Census of Manufactures. Total packs for 1910-13 and 1915-18 were computed on the basis of the relationship between the aggregate pack of corn, green peas, and tomatoes (for which annual estimates have been available since 1909 from the National Canners Association) and the total vegetables pack as reported in the Census. Similar interpolations were made for the noncensus years after 1919. Under wartime control programs during 1942-45, detailed and complete reports on packs, shipments, and stocks were made monthly by all packers to the Department of Commerce. Since that time, packs of most vegetables have been estimated at least once a year by the National Canners Association.

Packs of pickles and sauerkraut are the only items estimated from Crop Reporting Board reports on production of vegetables for processing. Production estimates for processing vegetables are based primarily on reports supplied currently by commercial processors throughout the country. Supplemental data from industry groups and cooperating State and Federal agencies are used to verify production levels each year.

Official information on January 1 stocks of canned vegetables was not available until 1943, when holdings were reported each month to the Department of Commerce and the Office of Price Administration. However, end-of-season stocks for most major items held by commercial canners have been estimated by the National Canners Association since 1921. Some information on stocks held by distributors (not including retailers) was developed by the Department of Commerce for 1934-42. Since the termination of the wartime reporting system in the spring of 1947, the Census Bureau has collected data on distributors' stocks for principal vegetables.

Because information on commercial stocks and foreign trade was not available, estimates of consumption of canned vegetables prior to 1921 were made from pack data only. For 1921-42, consumption was computed from data on packs, packers' stocks, and foreign trade on a pack-year

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Table 37.--Fresh vegetables: Supply and utilization, 1919-63 1/

Year	Supply				Utilization								
						Exports and shipments 6/			Not marketed or used for processing 7/	Domestic food use			
	Production 2/	Imports and inshipments 3/	Beginning commercial stocks 4/	Total supply 5/	Total use 5/	Commercial	USDA	Total		Military	Civilian		
											USDA donations	Total	Per capita 8/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1919	7,948	159	220	8,327	8,177	54	---	54	72	---	---	8,051	76.6
1920	10,160	200	150	10,510	10,276	63	---	63	96	---	---	10,117	95.0
1921	8,718	242	242	9,183	9/9,033	59	---	59	61	---	---	8,913	82.2
1922	10,536	164	150	10,700	10,556	54	---	54	95	---	---	10,209	92.8
1923	9,896	196	542	10,633	10,497	48	---	48	99	---	---	10,090	90.1
1924	11,479	200	300	11,981	11,709	50	---	50	154	---	---	11,505	100.9
1925	11,980	469	378	12,827	12,709	39	---	39	234	---	---	11,727	101.3
1926	11,880	520	496	12,896	12,194	48	---	48	295	---	---	11,811	100.6
1927	12,715	479	424	13,621	13,013	39	---	39	371	---	---	12,613	106.0
1928	13,116	417	498	14,131	13,809	44	---	44	217	---	---	12,544	104.2
1929	13,988	449	575	14,963	14,811	43	---	43	450	---	---	13,718	112.6
1930	14,688	369	450	14,707	14,534	44	---	44	419	---	---	13,774	111.9
1931	13,509	424	473	14,406	13,944	46	---	46	467	---	---	13,431	108.3
1932	14,099	95	215	14,309	14,116	37	---	37	297	---	---	13,581	108.8
1933	13,140	190	554	13,910	13,770	40	---	40	367	---	---	13,119	104.5
1934	15,109	171	384	15,664	15,195	34	---	34	603	---	---	14,558	115.2
1935	14,350	97	489	14,936	14,769	44	---	44	331	---	---	14,145	111.2
1936	14,700	263	536	15,499	15,019	88	---	88	534	---	---	14,407	112.5
1937	14,912	237	480	15,629	14,849	84	---	84	475	---	---	14,290	111.0
1938	15,488	223	396	16,077	15,477	109	---	109	588	---	---	14,866	114.5
1939	15,969	173	499	16,641	16,275	107	---	107	719	---	---	15,252	116.6
1940	15,887	140	474	16,501	16,130	106	---	106	581	---	---	15,433	116.9
1941	15,997	319	481	16,797	15,918	106	---	106	542	269	---	15,001	113.8
1942	16,897	307	404	17,608	17,197	92	8	100	858	596	---	15,643	119.0
1943	16,706	430	431	17,567	17,334	210	10	220	708	1,361	---	15,045	116.7
1944	18,623	489	253	19,365	18,711	301	9	310	1,299	1,172	---	15,930	123.9
1945	19,346	421	549	20,316	2/20,000	332	---	332	1,335	1,006	---	17,327	134.3
1946	20,346	433	375	21,154	20,474	440	---	440	1,672	378	---	17,984	129.9
1947	18,541	481	676	19,698	18,846	425	---	425	758	212	---	17,451	122.4
1948	19,196	504	556	20,046	19,440	2/246	---	2/246	1,135	197	---	17,862	123.0
1949	18,780	407	906	19,593	18,776	2/351	---	2/351	1,092	180	---	17,153	116.2
1950	19,483	474	617	20,574	19,734	477	---	477	1,777	181	---	17,299	115.2
1951	18,941	466	640	19,947	19,198	445	---	445	1,463	389	---	16,901	111.9
1952	18,810	492	439	19,741	19,319	522	---	522	1,328	356	---	17,113	111.6
1953	19,426	455	422	20,303	19,569	566	---	566	1,665	318	---	17,020	109.1
1954	18,896	370	734	20,000	19,433	647	---	647	1,427	298	---	17,061	107.2
1955	19,061	493	567	20,121	19,459	687	---	687	1,461	242	---	17,069	105.1
1956	20,317	330	462	21,109	20,551	811	---	811	1,833	218	7	17,689	107.1
1957	19,757	379	558	20,694	20,213	780	---	780	1,281	239	---	17,912	106.4
1958	19,881	366	482	20,929	20,435	795	---	795	1,631	229	4	17,780	103.7
1959	20,134	360	494	21,178	20,598	772	---	772	1,650	224	1	17,952	102.9
1960	21,497	313	380	22,190	22,042	744	---	744	2,229	219	---	18,850	105.8
1961	21,171	463	558	22,192	21,767	777	---	777	1,763	220	2	19,007	104.9
1962	21,023	360	525	21,908	21,500	760	---	760	1,582	258	---	18,900	102.8
1963 10/	21,371	496	608	22,475	21,904	870	---	870	1,987	251	---	19,196	102.9

1/ Includes all vegetables grown primarily for fresh sale, except melons, potatoes and sweetpotatoes. Excludes produce of farm and nonfarm home garden.
2/ Estimated total commercial production for all States and for all vegetables for fresh market, including greenhouse production. For a few crops, includes production for processing. See note 7.
3/ Beginning 1938 includes shipments from Puerto Rico.
4/ Includes stocks as follows: Onions beginning 1919 (including cold storage stocks, 1946 to date); all Danish cabbage 1922-38; New York cabbage 1939 to date.
5/ Total supply less ending stocks. Years in which differences between ending stocks of one year and beginning stocks in the following year arise, because of changes in coverage of available data, are cited.
6/ Shipments to Hawaii not reported after March 1948. Beginning 1950 includes small quantities of melons shipped to Territories.
7/ Includes estimated quantities of beets, cabbage and carrots used for dehydrating during 1942-46, and of broccoli, Brussels sprouts, carrots, cauliflower, spinach through 1948 (except in principal producing States) and miscellaneous vegetables for processing; such quantities are not covered in the reported data on commercial production for processing. Includes shrinkage and loss after harvest for onions only.
8/ Civilian consumption only, beginning 1941.
9/ Low figure due to Canadian import embargo in 1948 and most of 1949. Figure for 1948 includes estimates of shipments to Hawaii.
10/ Preliminary.

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Table [illegible].—Canned vegetables: Supply and utilization, 1909-63 1/

Year 2/	Supply					Utilization							
	Production 3/	Imports and inshipments	Beginning stocks			Total supply	Total use 6/	Exports and shipments			Military 8/	Domestic food use	
			Commercial 4/	USDA 5/	Total			Commercial 7/	USDA 5/	Total		Civilian	
												USDA donations	Total
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.
1909	1,328	---	---	---	---	1,328	1,328	---	---	---	---	---	1,328
1910	1,358	---	---	---	---	1,358	1,358	---	---	---	---	---	1,358
1911	1,598	---	---	---	---	1,598	1,598	---	---	---	---	---	1,598
1912	2,005	---	---	---	---	2,005	2,005	---	---	---	---	---	2,005
1913	1,820	---	---	---	---	1,820	1,820	---	---	---	---	---	1,820
1914	2,018	---	---	---	---	2,018	2,018	---	---	---	---	---	2,018
1915	1,565	---	---	---	---	1,565	1,565	---	---	---	---	---	1,565
1916	1,773	---	---	---	---	1,773	1,773	---	---	---	---	---	1,773
1917	2,181	---	---	---	---	2,181	2,181	---	---	---	---	---	2,181
1918	2,513	---	---	---	---	2,513	2,513	---	---	---	---	---	2,513
1919	1,904	---	---	---	---	1,904	1,904	---	---	---	---	---	1,904
1920	2,038	---	---	---	---	2,038	2,038	---	---	---	---	---	2,038
1921	1,328	---	398	---	398	1,726	1,597	3	---	3	---	---	1,594
1922	2,173	73	129	---	129	2,375	2,273	27	---	27	---	---	2,246
1923	2,665	42	52	---	52	2,759	2,639	46	---	46	---	---	2,593
1924	2,550	100	120	---	120	2,770	6/2,688	44	---	44	---	---	2,644
1925	3,596	121	211	---	211	3,928	3,379	49	---	49	---	---	3,330
1926	3,624	106	549	---	549	4,279	3,715	59	---	59	---	---	3,656
1927	3,441	125	564	---	564	4,130	3,740	69	---	69	---	---	3,671
1928	3,696	134	390	---	390	4,220	6/3,955	81	---	81	---	---	3,874
1929	3,372	173	336	---	336	4,881	6/3,575	80	---	80	---	---	3,495
1930	3,715	89	353	---	353	4,157	6/3,532	51	---	51	---	---	3,481
1931	3,800	106	668	---	668	4,573	3,784	41	---	41	---	---	2,743
1932	3,299	84	789	---	789	4,172	3,801	36	---	36	---	---	2,765
1933	3,531	88	371	---	371	3,990	6/3,791	43	---	43	---	---	2,749
1934	3,106	90	945	---	945	4,141	3,941	44	---	44	---	---	3,197
1935	3,960	74	900	---	900	4,934	3,933	55	---	55	---	---	3,501
1936	3,704	73	1,378	---	1,378	5,155	3,647	56	---	56	---	---	3,592
1937	4,999	66	1,508	---	1,508	6,573	4,100	63	---	63	---	---	4,037
1938	4,217	81	2,074	---	2,074	6,370	4,098	66	---	66	---	---	4,032
1939	3,690	85	2,832	---	2,832	6,607	4,405	79	---	79	---	---	4,326
1940	4,528	2	1,602	---	1,602	6,132	4,900	84	13	97	---	---	4,803
1941	5,775	11	1,232	---	1,232	7,018	5,532	112	125	237	356	---	4,939
1942	6,853	6	1,456	34	1,490	8,349	6/6,898	53	70	123	1,200	---	5,575
1943	8,253	8	4,443	63	4,508	10,766	6,187	41	134	175	1,245	---	4,767
1944	6,369	2	4,271	308	4,579	10,950	6,669	73	223	296	1,935	---	4,428
1945	6,559	11	10/4,138	153	4,291	10,861	6,993	100	11/194	294	1,123	---	5,576
1946	7,648	17	10/3,820	46	3,868	11,533	6/6,924	134	11/119	253	190	---	6,481
1947	6,196	19	10/4,396	3	4,399	10,614	6/6,427	217	2	219	229	---	5,779
1948	5,917	38	4,243	3	4,246	10,201	5,868	121	2	123	246	---	5,499
1949	6,144	39	4,333	---	4,333	10,516	6,080	107	1	108	112	---	5,760
1950	5,950	80	4,436	---	4,436	10,466	6/6,562	113	---	113	133	---	6,316
1951	7,863	84	4,103	---	4,103	12,050	6/7,138	142	---	142	633	---	6,383
1952	7,379	71	4,340	---	4,340	11,990	6/7,047	14	2	14	463	---	6,437
1953	7,308	64	4,883	---	4,883	12,255	6/7,198	189	1	190	257	---	6,751
1954	6,738	76	5,076	---	5,076	11,892	7,102	197	1	198	235	36	6,669
1955	7,108	94	4,790	---	4,790	11,992	7,412	197	1	198	169	69	7,045
1956	8,821	123	4,580	---	4,580	13,524	7,725	258	2	260	208	26	7,257
1957	7,749	110	5,799	---	5,799	13,658	7,915	334	1	335	183	44	7,397
1958	8,284	157	5,743	---	5,743	14,184	8,176	254	2	256	250	61	7,670
1959	7,603	137	6,008	---	6,008	13,748	6/8,318	251	2	253	250	70	7,815
1960	8,021	127	5,490	---	5,490	13,628	8,353	249	1	250	205	40	7,898
1961	8,880	141	5,275	---	5,275	14,396	8,968	226	1	227	285	55	8,056
1962	9,584	108	5,828	---	5,828	15,520	6/8,909	237	1	238	189	83	8,482
1963 12/	8,885	159	6,740	---	6,740	15,784	9,158	258	2	260	227	96	8,671

1/ Includes asparagus, lima beans, snap beans, beets, carrots, corn, peas, pickles, pimientos, potatoes, pumpkin and squash, sauerkraut, spinach, sweetpotatoes, tomatoes, tomato and combination vegetable juice containing 70 percent or more tomato juice, tomato pulp, catsup, paste, sauce, and chili sauce, other greens, mixed and miscellaneous vegetables. Excludes baked beans, soups, and baby foods. 2/ From 1909 to 1942, data are on a pack-year basis beginning in the year indicated. Beginning 1943, the statistics are on a calendar year basis. 3/ Derived from data of the National Canners Association, the Census of Manufactures, and the U. S. Departments of Agriculture and Commerce. 4/ Includes canners' stocks beginning 1921 (prior to 1933, estimates are for major items only) and wholesale distributors' stocks beginning 1934. Canners' stock data were derived mostly from reports of the National Canners Association; wholesale distributors' stocks from U. S. Department of Commerce. 5/ Compiled from the records of the U. S. Department of Agriculture. Includes lend-lease, UNRRA, and other programs. The data have been adjusted to include transfers from military stocks to the UNRRA program in the years 1945-47. 6/ Total supply less ending stocks. Years in which differences between ending stocks of one year and beginning stocks in the following year arise, because of changes in coverage of available data, are cited. 7/ Beginning 1941, data exclude shipments by USDA for lend-lease, UNRRA, and other programs. 8/ Data exclude transfers to UNRRA and other nonmilitary accounts, adjusted to year procured. Data for 1941 and 1942 are estimates based on fragmentary information. 9/ Civilian consumption only, beginning 1941. 10/ Includes the following quantities transferred from military agencies to UNRRA and other nonmilitary agencies: 1944, 57 million pounds; 1945, 125 million pounds; 1946, 6 million pounds. 11/ Includes 24 million pounds shipped to UNRRA during 1945 and 96 million pounds shipped in 1946. 12/ Preliminary.

Table 64.—Frozen vegetables and potato products: Supply and utilization, 1937-63

Year	Supply			Utilization					
						Domestic disappearance			
							Civilian 4/		
	Production 1/	Beginning commercial stocks 2/	Total supply	Total use 3/	Commercial exports and shipments	Military	USDA donations	Total	Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
				A. Frozen vegetables 5/					
1937	71	9	80	51	---	---	---	51	0.4
1938	89	29	118	53	---	---	---	53	.4
1939	71	65	136	65	---	---	---	65	.5
1940	82	71	153	76	---	---	---	76	.6
1941	106	77	183	91	---	3	---	88	.7
1942	161	92	253	151	---	6	---	145	1.1
1943	230	102	332	147	---	52	---	95	.7
1944	237	185	422	259	---	50	---	209	1.6
1945	308	163	471	281	---	36	---	245	1.9
1946	469	190	659	308	---	26	---	283	2.0
1947	340	328	668	384	---	18	---	366	2.6
1948	435	284	719	448	---	22	---	426	3.0
1949	542	271	812	409	1	73	---	435	2.9
1950	566	353	919	501	1	30	---	490	3.3
1951	746	398	1,144	680	3	62	---	615	4.1
1952	859	464	1,323	801	4	93	---	704	4.9
1953	1,023	502	1,525	872	9	65	---	798	5.1
1954	881	653	1,534	947	11	67	---	869	5.5
1955	1,007	587	1,594	1,030	14	78	---	958	5.9
1956	1,333	564	1,897	3/1,037	12	63	---	1,002	6.1
1957	1,139	791	1,930	1,127	14	55	---	1,058	6.3
1958	1,169	803	1,962	1,209	17	54	---	1,138	6.7
1959	1,250	753	2,003	1,259	18	48	---	1,193	6.8
1960	1,402	744	2,146	1,328	22	43	---	1,263	7.1
1961	1,571	818	2,389	1,362	20	31	---	1,289	7.1
1962	1,493	987	2,480	1,486	14	54	---	1,418	7.7
1963 3/	1,452	994	2,446	1,459	24	49	---	1,386	7.4
				B. Frozen potato products					
1947	3	3	6	1	---	6/	---	1	7/
1948	9	5	14	7	---	6/	---	7	7/
1949	16	7	23	11	6/	1	---	10	.1
1950	29	12	41	19	6/	1	---	18	.1
1951	48	22	70	38	6/	4	---	35	.2
1952	57	31	88	59	6/	4	---	55	.4
1953	71	29	100	54	1	4	---	49	.3
1954	85	46	131	77	1	6	---	70	.4
1955	129	34	163	129	2	3	---	120	.7
1956	190	58	248	3/106	3	4	---	199	1.2
1957	240	61	281	206	3	3	---	203	1.2
1958	269	73	342	250	4	4	---	246	1.4
1959	371	90	461	364	5	3	---	356	2.1
1960	451	97	548	487	9	3	---	475	2.7
1961	679	161	740	3/624	8	3	---	513	2.8
1962	792	136	928	717	7	4	---	706	3.9
1963 3/	961	181	1,142	893	15	4	---	834	4.5
				C. Total					
1937	71	9	80	51	---	---	---	51	.4
1938	89	29	118	53	---	---	---	53	.4
1939	71	65	136	65	---	---	---	65	.5
1940	82	71	153	76	---	---	---	76	.6
1941	106	77	183	91	---	3	---	88	.7
1942	161	92	253	151	---	6	---	145	1.1
1943	230	102	332	147	---	52	---	95	.7
1944	237	185	422	259	---	50	---	209	1.6
1945	308	163	471	281	---	36	---	245	1.9
1946	469	190	659	308	---	25	---	283	2.0
1947	343	331	674	383	---	18	---	367	2.6
1948	444	289	733	456	---	22	---	433	3.0
1949	567	278	845	470	1	24	---	445	3.0
1950	595	365	960	540	1	31	---	508	3.4
1951	794	420	1,214	719	4	66	---	650	4.3
1952	916	495	1,411	860	4	67	---	809	5.3
1953	1,094	741	1,835	926	10	69	---	847	5.4
1954	966	699	1,664	1,054	13	73	---	969	6.1
1955	1,136	641	1,777	1,155	16	61	---	1,078	6.6
1956	1,523	654	2,177	3/1,193	15	67	---	1,101	7.3
1957	1,379	857	2,211	1,339	17	57	---	1,261	7.5
1958	1,478	826	2,304	1,461	21	56	---	1,384	8.1
1959	1,651	813	2,464	1,615	19	51	---	1,549	8.9
1960	1,853	941	2,794	1,813	41	46	---	1,726	9.8
1961	2,110	979	3,089	3/1,886	40	44	---	1,802	9.9
1962	2,285	1,193	3,478	2,104	43	38	---	2,124	11.6
1963 3/	2,414	1,075	3,489	2,113	39	53	---	2,020	11.0

1/ Pack data 1937 through 1943, compiled from Western Canner and Packer; data beginning 1944 from National Association of Frozen Food Packers. 2/ Stock data from Cold Storage Report of Statistical Reporting Service, USDA. Stocks of potato products other than French fries included with vegetables prior to 1956. Stocks of potato products 1947-55 include French fries only; from 1956 to date include French fries plus estimates of other potato products. 3/ Total supply less ending stocks. Stock differences in 1955-56 caused by shift of potato stocks other than French fries from vegetable to potato category (see footnote). Differences in ending stocks of 1961 and beginning stocks of 1962 are caused by inclusion in 1962 of potato stocks in warehouses not previously reported. 4/ Civilian consumption beginning 1941. 5/ Includes asparagus, snap beans, lima beans, broccoli, Brussels sprouts, carrots, cauliflower, corn (cut-corn equivalent), kale, mixed vegetables, okra, blackeye peas, green peas, peas and carrots (mixed), rhubarb, spinach, squash, succotash, turnip greens, and miscellaneous vegetables (including sweetpotatoes). Excludes potato products. 6/ Less than 0.5 million pounds. 7/ Less than 0.05 pound. 8/ Preliminary.

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basis. Data on consumption, derived on a pack-year basis, were prorated to obtain estimates of calendar-year consumption rates of individual items for years before 1943 (table 21). Beginning with 1943, the availability of January 1 stocks has permitted estimates to be made on a calendar-year basis.

From 1937 through 1943, data on frozen vegetable packs were obtained from Canner-Packer (table 69). Information for subsequent years was from data published by the National Association of Frozen Food Packers. Stocks of frozen vegetables in commercial cold storage are reported monthly by USDA.

Canned Baby Foods and Soup

Production of canned baby foods from 1934-47 and soup from 1935-46 was derived from reports of the Department of Commerce (tables 70 and 71). Data on pack and packers' stocks of canned baby foods were published by the National Canners Association during 1948-56. Except in these periods, approximations of per capita consumption were based on annual packs as given by the Census of Manufactures, with interpolations for intercensal years, and on indications of production trends obtained from canners (table 23). Data are not available for dried soup mixes or frozen soups.

Potatoes, Sweetpotatoes, Dry Beans, and Peas

Production of potatoes, sweetpotatoes, dry beans, and peas is estimated officially by the Crop Reporting Board (tables 72-75). Nonfarm production of these commodities is relatively unimportant and is not included in total production. Supply and utilization data for dry beans and peas incorporate those canned. However, canned and frozen potatoes and sweetpotatoes are excluded; they are included with other processed vegetables. Those frozen are shown separately. Nonfood use shown for each commodity is reported by the Crop Reporting Board.

Stocks of Irish potatoes at the beginning of the calendar year during 1909-48 were estimated to include: (1) Merchantable potatoes left in the hands of local dealers in the producing area on January 1 that would be marketed for all purposes; (2) the quantity of potatoes saved and used for seed on farms where produced; and (3) 40 percent of the potatoes estimated as consumed for food on farms where produced. Merchantable potato stocks from 1929 to 1948 were published estimates of the Crop Reporting Board. Stocks for earlier years were backward projections by staff members of the Department, based upon the relationship between January 1 stocks of potatoes and the size of the crop in important States in years reported. From 1949 to date, the Crop Reporting Board has estimated total stocks held by growers and local dealers as of January 1.

January 1 stocks of sweetpotatoes are not officially estimated by the Department. The derived stocks include: (1) Commercial stocks for sale as of January 1, which are computed by subtracting monthly sales prior to January 1 from the total quantity sold in the crop year; and (2) estimates for the previous crop of quantity saved for seed, and 40 percent of the farm home consumption.

January 1 stocks of dry edible beans for 1909-41 and 1947-49 were estimated on the basis of official reports on sales of old crop beans after January 1, estimates of homegrown seed saved on farms, home consumption on farms where produced, and carryover stocks on the following September 1. January 1 stocks for 1943-46 were interpolations based on official stocks reports for December 1 of the preceding year and March 1 of the corresponding year. Stocks for 1942 and 1950 to date were official estimates. Because of inadequate data, January 1 stocks of dry peas are not computed. Crop-year rather than calendar-year data have been used for dry peas.

Cereal Products

Production of the various grains is derived from estimates of acreage and yield per acre. Acreage estimates are based on indications of change in acreage as obtained by questionnaire -- mail and personal enumeration -- from samples of farmers. These are supplemented by annual State assessors' enumerations; data

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Table 70.--Canned baby food: Supply and utilization, 1934-56

Year	Supply			Utilization			
	Production 1/	Beginning commercial stocks 2/	Total supply	Total use 3/	Commercial exports and shipments	Civilian food use	
						Total	Per capita 4/	Per child under 3 yrs.
	Mil.lb.	Mil.lb.	Mil. lb.	Mil. lb.	Mil. lb.	Mil. lb.	Lb.	Lb.
1934	12	9	21	12	---	12	0.1	2.0
1935	15	9	24	12	---	12	.1	2.1
1936	24	12	36	21	---	21	.2	3.6
1937	42	15	57	36	---	36	.3	6.0
1938	48	21	69	36	---	36	.3	5.9
1939	54	33	87	51	---	51	.4	8.2
1940	81	36	117	69	---	69	.5	10.9
1941	126	48	174	96	---	96	.7	14.8
1942	165	78	243	153	---	153	1.2	22.5
1943	234	90	324	208	---	208	1.6	27.9
1944	305	116	421	269	---	269	2.1	34.4
1945	422	152	574	354	---	354	2.7	44.4
1946	462	220	682	3/387	---	387	2.8	50.3
1947	368	238	606	398	---	398	2.8	46.0
1948	526	208	734	513	---	513	3.5	54.8
1949	511	221	732	501	5	496	3.4	48.9
1950	547	231	778	518	5	513	3.4	52.1
1951	503	260	763	523	6	517	3.4	51.8
1952	562	240	802	571	7	564	3.7	55.5
1953	666	231	897	619	9	610	3.9	58.2
1954	683	278	961	647	9	638	4.0	59.4
1955	669	314	983	656	9	647	4.0	58.8
1956	683	327	1,010	691	14	677	4.1	60.3

1/ Data from 1934 to 1947, based on reports of the U. S. Department of Commerce; beginning 1948, data are derived from reports of the National Canners Association. 2/ Stock figures include canners' and wholesale distributors' through 1946; thereafter, canners' stocks only. 3/ Total supply less ending stocks. Difference in ending 1946 stocks and beginning 1947 stocks are due to change in coverage of available data. 4/ Civilian per capita beginning 1941.

Table 71.--Canned soups: Supply and utilization, 1935-46

Year	Supply			Utilization				
	Production 1/	Beginning commercial stocks 1/	Total supply	Total use 2/	Commercial exports and shipments	Domestic disappearance		
						Military	Civilian	
							Total	Per capita 3/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1935	552	129	681	468	4	---	464	3.6
1936	600	213	813	546	5	---	541	4.2
1937	666	267	933	663	6	---	657	5.1
1938	720	270	990	711	6	---	705	5.4
1939	885	279	1,164	849	14	---	835	6.4
1940	900	315	1,215	912	10	---	902	6.8
1941	1,035	303	1,338	931	14	---	917	7.0
1942	840	407	1,247	989	14	5	970	7.4
1943	675	258	933	706	10	10	686	5.3
1944	890	227	1,117	891	16	10	865	6.7
1945	977	226	1,203	993	15	10	968	7.5
1946	1,434	210	1,644	1,245	24	4	1,217	8.8

1/ Derived from data of the U. S. Department of Commerce. No data reported since 1946. 2/ Total supply less ending stocks. 3/ Civilian per capita beginning 1941.

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Table 72.—Potatoes: Supply and utilization, 1909-63

Year	Supply: Production	Supply: Imports and inshipments	Supply: Beginning commercial stocks 1/	Supply: Total supply	Utilization: Total use 2/	Utilization: Exports and shipments: Commercial	Utilization: Exports and shipments: USDA 3/	Utilization: Exports and shipments: Total	Utilization: Canned and frozen 4/	Utilization: Feed, seed, waste, and nonfood 5/	Utilization: Domestic disappearance: Food use: Civilian: Military 6/	Utilization: Domestic disappearance: Food use: Civilian: USDA donations	Utilization: Domestic disappearance: Food use: Civilian: Total 7/	Utilization: Domestic disappearance: Food use: Civilian: Per capita 8/
	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Mil.cwt.	Lb.
1909	234.1	4.5	82.2	320.8	217.0	0.8	---	0.8	---	47.3	---	---	168.9	187
1910	205.2	.2	103.8	309.2	224.0	1.3	---	1.3	---	39.6	---	---	183.1	198
1911	181.6	.9	85.2	267.7	184.9	1.5	---	1.5	---	36.2	---	---	147.2	157
1912	243.7	7.4	82.8	333.9	221.1	1.3	---	1.3	---	49.4	---	---	170.4	179
1913	199.5	1.9	112.8	314.2	223.6	1.4	---	1.4	---	38.5	---	---	183.7	189
1914	220.9	.5	90.6	312.0	206.4	1.9	---	1.9	---	49.4	---	---	145.1	157
1915	202.1	.1	105.6	307.8	226.8	2.6	---	2.6	---	38.3	---	---	185.9	185
1916	162.2	.5	81.0	243.7	178.9	2.3	---	2.3	---	31.1	---	---	145.5	143
1917	239.2	1.9	64.8	305.9	200.9	1.8	---	1.8	---	48.5	---	---	150.6	146
1918	207.7	.7	105.0	313.4	224.0	2.7	---	2.7	---	38.9	---	---	182.4	174
1919	178.4	3.3	89.4	271.1	196.1	2.6	---	2.6	---	33.5	---	---	160.0	152
1920	221.3	3.6	75.0	299.9	195.5	2.9	---	2.9	---	43.5	---	---	149.1	140
1921	195.2	1.2	104.4	300.8	210.8	2.6	---	2.6	---	39.0	---	---	169.2	156
1922	249.2	1.1	90.0	340.3	220.9	2.2	---	2.2	---	61.1	---	---	157.6	143
1923	219.8	.4	119.4	339.6	240.0	2.1	---	2.1	---	42.5	---	---	195.4	174
1924	230.5	.3	99.6	330.4	226.6	2.9	---	2.9	---	48.3	---	---	175.4	154
1925	177.9	1.3	103.8	283.0	214.6	2.0	---	2.0	---	30.9	---	---	181.7	157
1926	193.0	3.4	68.4	264.8	185.0	1.7	---	1.7	---	32.8	---	---	150.5	128
1927	221.8	3.1	79.8	304.7	206.9	2.0	---	2.0	---	36.9	---	---	168.0	141
1928	9/256.3	2.2	97.8	356.3	239.9	2.2	---	2.2	---	9/60.1	---	---	177.6	147
1929	200.0	2.4	116.4	318.8	235.9	2.3	---	2.3	---	40.2	---	---	193.4	159
1930	206.3	3.0	82.9	292.2	204.5	1.7	---	1.7	---	40.0	---	---	162.8	132
1931	230.6	2.7	87.7	321.0	222.1	2.3	---	2.3	---	51.7	---	---	168.1	136
1932	9/224.8	.7	98.9	324.4	225.3	1.2	---	1.2	---	9/56.5	---	---	167.6	134
1933	205.9	.7	99.1	305.7	211.5	1.0	---	1.0	---	44.4	---	---	166.1	132
1934	243.9	.9	94.2	339.0	235.7	1.3	---	1.3	---	63.4	---	---	171.0	135
1935	227.3	.2	103.3	330.8	237.7	1.8	---	1.8	---	55.7	---	---	180.2	142
1936	194.4	.8	93.1	288.3	209.2	1.5	---	1.5	---	41.4	---	---	166.3	130
1937	225.9	.6	79.1	305.6	213.5	1.9	---	1.9	---	49.7	---	---	161.9	126
1938	213.5	.5	92.1	306.1	218.9	2.0	---	2.0	---	49.5	---	---	167.4	129
1939	205.4	.9	87.2	293.5	208.3	2.4	---	2.4	---	45.6	---	---	160.3	122
1940	226.2	.8	85.2	312.2	217.5	2.5	---	2.5	---	52.8	---	---	162.2	123
1941	213.4	.6	94.7	308.7	220.2	2.8	10/	2.8	0.3	44.9	11/3.2	---	169.0	128
1942	221.3	.5	88.5	310.3	220.8	1.5	0.3	1.8	.4	42.0	11/9.4	---	167.2	127
1943	9/275.3	.7	89.5	365.5	254.2	1.5	.9	2.4	1.4	9/70.0	18.8	---	161.6	125
1944	230.4	3.2	111.3	344.9	256.0	1.9	2.5	4.4	.3	49.2	27.6	---	174.5	136
1945	251.6	3.3	88.9	343.8	246.6	4.9	3.4	8.3	.7	54.5	25.7	---	157.4	122
1946	9/292.4	1.4	97.2	391.0	277.5	6.3	2.4	8.7	.2	9/88.0	10.2	---	170.4	123
1947	233.4	3.2	113.5	350.1	257.0	4.3	4.4	8.7	.4	61.2	8.0	---	178.7	125
1948	269.9	3.7	12/93.1	366.7	254.8	3.7	.5	4.2	.8	81.5	16.0	---	152.3	105
1949	241.0	5.8	12/111.9	358.7	252.3	3.0	.1	3.1	1.0	67.3	18.6	---	162.3	110
1950	259.0	4.0	106.4	369.4	257.8	3.5	13/4.6	8.1	1.3	86.0	3.7	---	158.7	106
1951	9/195.8	2.7	111.6	310.1	240.9	3.4	14/ .2	3.6	1.6	9/57.6	7.7	---	170.4	113
1952	211.1	2.0	69.2	282.3	201.1	4.1	---	4.1	2.3	34.9	5.6	---	154.2	101
1953	9/231.7	1.7	81.2	314.6	222.8	3.6	---	3.6	2.5	9/45.2	5.5	---	166.0	106
1954	219.5	1.4	91.8	312.7	224.5	4.1	---	4.1	2.7	45.0	4.6	---	168.1	106
1955	227.7	1.2	88.2	317.1	231.1	4.9	---	4.9	4.1	45.3	3.9	---	172.9	107
1956	245.8	2.8	85.0	334.6	234.0	3.5	.5	4.0	5.5	56.5	3.8	---	164.2	99
1957	242.5	1.7	100.6	344.8	252.1	3.7	---	3.7	6.4	59.7	4.0	---	178.3	106
1958	266.9	2.6	92.7	362.2	254.3	3.3	---	3.3	7.6	67.0	4.0	---	172.4	101
1959	245.8	.9	107.9	354.6	255.2	3.9	---	3.9	9.9	61.2	3.7	---	176.5	101
1960	257.5	.5	99.4	357.4	252.4	4.4	---	4.4	14.4	49.5	3.7	---	180.4	101
1961	9/293.7	.7	105.0	399.4	275.3	3.4	---	3.4	15.2	9/68.3	3.9	0.1	184.5	102
1962	266.8	1.1	124.1	392.0	274.2	3.0	---	3.0	19.3	67.7	3.5	.3	180.7	98
1963 15/	9/271.9	.7	117.8	390.4	274.0	4.1	---	4.1	21.6	9/56.2	3.8	10/	188.3	101

1/ Includes merchantable stocks in hands of growers and local dealers in areas where produced plus estimated farm use and shrinkage after January 1. Merchantable stocks prior to 1930 were estimated; thereafter, officially reported and based on annual surveys of the Crop Reporting Board. Data for 1943-46 include the farm-weight equivalent of dehydrated potatoes held by USDA and estimates of quantities held by processors; quantities held by USDA in those respective years were 0.03 million hundredweight, 0.69, 1.78, and 1.99. 2/ Total supply less ending stocks. 3/ Includes the farm-weight equivalent of dehydrated potatoes. 4/ Farm-weight equivalent. 5/ Includes quantities used for starch, glucose, and alcohol. 6/ Includes civilian feeding in areas occupied by our Armed Forces. Data include the farm-weight equivalent of dehydrated potatoes and potato flour, and, in 1949, a small quantity of potato starch. 7/ Includes farm-weight equivalent of potatoes used in mixtures, flour, dehydration, chips and shoestring potatoes. Beginning 1959, these uses have amounted to about 15 to 18 percent of the totals shown. Excludes quantities used for canned and frozen potatoes, which are included with processed vegetable data. 8/ Civilian per capita consumption, beginning 1941. 9/ Production includes some quantities left in the ground because of low prices. These quantities are included in "feed, seed, waste, and nonfood." 10/ Less than 50,000 hundredweight. 11/ Rough estimate. 12/ Includes the farm-weight equivalent of potato flour produced during 1947-49 and shipped for military civilian feeding during 1948-49. 13/ Export under price support program, as reported by the former Production and Marketing Administration. 14/ Voluntary relief shipment. 15/ Preliminary.

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Table 7[illegible].--Sweetpotatoes: Supply and utilization, 1909-63

Year	Supply			Utilization									
							Domestic disappearance						
							Nonfood use		Food use				
									Military		Civilian		
	Production	Beginning stocks 1/	Total supply	Total use 2/	Commercial exports and shipments	Starch	Canned and frozen 3/	Feed and waste 4/	Seed	Dehydrated 5/	Fresh 6/	USDA donations	Total 7/	Per capita 8/
	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	Lb.
1909	[illegible],447	11,000	43,447	[illegible],319	---	---	---	6,600	1,980	---	---	---	23,739	26.2
1910	33,170	11,128	44,298	[illegible],959	---	---	---	6,657	2,045	---	---	---	24,253	26.2
1911	30,407	11,343	41,750	31,145	---	---	---	6,622	1,944	---	---	---	22,579	24.0
1912	31,154	10,6[illegible]	41,759	30,914	---	---	---	6,120	1,893	---	---	---	22,901	24.0
1913	30,799	10,845	41,644	31,022	---	---	---	6,156	1,927	---	---	---	22,939	23.6
1914	29,780	10,622	40,402	29,685	---	---	---	5,899	1,847	---	---	---	21,939	22.1
1915	34,783	10,717	45,500	33,404	---	---	---	5,970	2,025	---	---	---	25,409	25.3
1916	33,856	12,996	46,946	33,917	---	---	---	6,850	2,121	---	---	---	24,946	24.5
1917	40,022	12,029	52,051	38,097	---	---	---	6,914	2,333	---	---	---	28,850	27.9
1918	37,720	13,954	51,674	38,[illegible]42	---	---	---	7,993	2,368	---	---	---	27,881	26.7
1919	43,050	13,432	56,482	41,311	---	---	---	7,927	2,552	---	---	---	30,832	29.3
1920	42,349	15,171	57,520	42,405	---	---	---	8,907	2,457	---	---	---	31,041	29.1
1921	40,539	15,115	55,654	40,659	---	---	---	8,520	2,614	---	---	---	29,525	27.2
1922	43,101	14,995	58,096	42,829	---	---	---	8,446	2,619	---	---	---	31,764	28.9
1923	35,129	15,267	50,396	38,398	---	---	---	8,458	2,165	---	---	---	27,775	24.8
1924	24,686	11,998	36,684	27,790	---	---	---	5,895	1,817	---	---	---	20,078	17.6
1925	27,576	8,894	36,470	26,343	---	---	---	3,853	1,967	---	---	---	20,523	17.7
1926	34,815	10,127	44,942	31,581	---	---	---	4,737	2,017	---	---	---	24,827	21.1
1927	36,993	13,361	50,354	36,684	---	---	---	6,651	2,329	---	---	---	29,704	25.0
1928	30,448	13,670	46,218	34,238	---	---	---	7,258	2,052	---	---	---	24,928	20.7
1929	35,738	11,980	47,738	35,410	---	---	---	6,163	1,981	---	---	---	27,266	22.4
1930	30,617	12,[illegible]8	42,345	31,089	---	---	---	6,472	2,932	---	---	---	22,685	18.3
1931	37,023	11,256	48,279	33,651	---	---	---	5,573	2,581	---	---	---	25,497	20.6
1932	47,[illegible]27	14,528	62,[illegible]55	45,510	---	---	---	7,673	3,220	---	---	---	34,617	27.7
1933	41,040	16,[illegible]45	57,785	42,903	---	---	---	10,013	2,760	---	---	---	30,130	24.0
1934	42,720	14,882	57,604	42,366	---	---	---	8,592	2,941	---	---	---	30,833	24.4
1935	44,687	13,[illegible]58	58,[illegible]45	44,80[illegible]	---	---	---	9,312	2,872	---	---	---	32,618	25.6
1936	[illegible],871	15,[illegible]13	47,994	36,227	---	---	---	8,726	2,169	---	---	---	25,332	19.8
1937	[illegible],479	11,767	49,[illegible]46	36,295	---	---	---	6,433	2,162	---	---	---	27,700	21.5
1938	37,73[illegible]	12,951	50,683	37,567	---	---	---	7,635	2,229	---	---	---	27,703	21.3
1939	33,959	13,116	47,075	35,318	---	---	---	7,501	2,055	---	---	---	25,762	19.7
1940	38,434	11,[illegible]57	49,191	29,[illegible]58	---	---	---	6,017	1,832	---	---	---	21,409	16.2
1941	34,388	10,933	45,317	32,405	---	---	631	5,331	2,049	---	164	---	24,230	18.4
1942	[illegible]6,008	12,[illegible]12	48,[illegible]20	35,[illegible]65	---	89	292	6,959	1,932	350	364	---	26,879	20.4
1943	33,1[illegible]8	12,[illegible]55	51,183	39,[illegible]03	---	56	386	7,601	2,419	507	407	---	27,647	21.4
1944	37,[illegible]38	12,160	49,698	37,724	---	---	534	8,314	2,081	959	466	---	25,370	19.7
1945	33,69[illegible]	11,774	45,666	35,034	96	---	976	7,082	1,838	1,050	382	---	23,610	18.3
1946	33,[illegible]54	10,63[illegible]	44,086	33,741	101	---	1,324	6,329	1,822	140	168	---	23,857	17.2
1947	[illegible]7,303	10,345	37,648	29,[illegible]72	104	---	536	6,532	1,601	---	86	---	20,716	14.5
1948	[illegible],700	[illegible],079	31,779	24,393	35	---	577	5,694	1,316	---	94	---	16,677	11.5
1949	[illegible]4,804	7,382	32,186	[illegible]4,638	52	---	998	4,773	1,372	---	96	---	17,237	11.7
1950	[illegible]7,769	7,648	34,917	[illegible]7,124	96	---	1,350	5,844	1,510	---	108	---	18,216	12.1
1951	1[illegible],998	7,793	[illegible]3,791	18,783	85	---	1,031	4,347	965	---	178	---	12,177	8.1
1952	16,940	[illegible],908	[illegible]1,848	16,[illegible]79	66	---	1,616	2,[illegible]72	1,007	---	108	---	11,206	7.3
1953	1[illegible],998	[illegible],773	[illegible]2,771	17,955	71	---	1,552	2,698	1,07[illegible]	---	69	---	12,490	8.0
1954	17,198	[illegible],816	[illegible]3,014	18,023	88	---	1,288	2,742	1,044	---	77	---	12,814	8.1
1955	[illegible]1,608	4,961	[illegible]6,569	[illegible]0,049	87	---	1,612	3,515	1,076	---	56	---	13,703	8.4
1956	17,381	6,[illegible]20	[illegible]3,901	18,494	79	---	1,606	3,028	878	---	46	---	12,857	7.8
1957	18,057	5,407	[illegible]3,464	18,518	88	---	1,698	3,033	908	---	55	---	12,736	7.6
1958	17,571	4,946	[illegible]2,517	17,[illegible]24	66	---	[illegible],247	[illegible],720	910	---	57	---	11,[illegible]24	6.5
1959	18,865	[illegible],693	24,158	19,19[illegible]	66	---	[illegible],324	3,005	924	---	49	---	12,824	7.3
1960	15,445	4,966	[illegible]0,411	16,459	68	---	1,820	2,504	770	---	43	---	11,[illegible]54	6.3
1961	15,213	3,952	19,165	15,156	62	---	[illegible],311	1,943	772	---	48	---	10,020	5.5
1962	19,362	4,009	23,371	17,933	80	---	3,050	2,601	915	---	50	---	11,237	6.1
1963 9/	15,8[illegible]1	[illegible],438	[illegible]1,269	16,786	[illegible]7	---	[illegible],460	2,407	837	---	46	---	10,981	5.9

1/ Estimated. Includes commercial stocks for sale as of January 1, quantity for seed from previous crop, and 40 percent of the farm home consumption of the previous crop year as farm-held supplies for following months. 2/ Total supply less ending stocks. 3/ Farm-weight equivalent of canned sweetpotatoes and, beginning 1961, farm-weight equivalent of frozen sweetpotatoes. 4/ Estimates based on reported feed and waste for crop years: Prior to 1947 assumed 30 percent occurred before January 1; beginning 1947, because of more production in commercial areas with better storage facilities, this percentage was increased each year to 65 percent in 1953 and thereafter. 5/ In 1942-46 all dehydrated assumed to be used by military or for military civilian feeding in occupied territories. 6/ Estimates for 1941 and 1942 are based on issues per man per day for troops stationed in continental U. S. Beginning 1943, data include purchases at market centers and estimated local purchases. 7/ Excludes canned and frozen sweetpotatoes which are included with processed vegetable data. 8/ Civilian per capita consumption, beginning 1941. 9/ Preliminary.

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Table [illegible].--Dry edible beans (cleaned basis): Supply and utilization, 1909-63

Year	Supply						Utilization									
			Beginning stocks 2/					Exports and shipments 3/			Domestic disappearance					
											Nonfood use			Food use		
	Production	Imports and shipments 1/	Commercial	USDA	Total	Total supply	Total use 3/	Commercial	USDA	Total	Seed 4/	Feed and lors	Military 5/	USDA donations	Civilian Total	Civilian Per capita 6/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	643	66	440	—	440	1,149	1,089	32	—	32	56	—	—	—	611	6.8
1910	636	61	360	—	360	1,057	1,019	33	—	33	52	—	—	—	604	6.5
1911	666	50	430	—	430	1,146	1,050	32	—	32	54	—	—	—	590	6.3
1912	674	71	360	—	360	1,105	745	34	—	34	64	—	—	—	647	6.8
1913	606	98	400	—	400	1,104	694	34	—	34	64	—	—	—	596	6.1
1914	721	93	330	—	330	1,144	740	49	—	49	68	—	—	—	633	6.4
1915	725	29	390	—	390	1,144	704	102	—	102	76	—	—	—	566	5.8
1916	645	56	350	—	350	1,051	841	133	—	133	90	—	—	—	518	5.1
1917	904	214	340	—	340	1,458	1,363	114	—	114	116	—	—	—	771	7.5
1918	988	115	480	—	480	1,515	1,043	156	—	156	111	—	—	—	774	7.4
1919	780	138	470	—	470	1,388	988	251	—	251	75	—	—	—	572	5.4
1920	581	132	490	—	490	1,203	913	137	—	137	70	—	—	—	606	5.7
1921	677	72	360	—	360	1,089	994	115	—	115	66	—	—	—	518	4.8
1922	792	56	330	—	330	1,120	720	72	—	72	84	—	—	—	564	5.1
1923	696	148	400	—	400	1,244	774	76	—	76	90	—	—	—	658	5.9
1924	841	102	420	—	420	1,363	1,263	67	—	67	106	—	—	—	890	7.8
1925	1,226	78	500	—	500	1,804	1,304	54	—	54	104	—	—	—	842	7.3
1926	967	101	469	—	469	1,737	1,060	66	—	66	115	—	—	—	887	7.6
1927	941	112	660	—	660	1,713	1,263	64	—	64	101	—	—	—	1,038	8.7
1928	990	150	480	—	480	1,620	1,520	54	—	54	109	—	—	—	1,037	8.6
1929	1,150	146	490	—	490	1,786	1,112	45	—	45	115	—	—	—	952	7.8
1930	1,354	126	640	—	640	2,120	1,440	38	—	38	131	—	—	—	1,171	9.5
1931	1,197	48	780	—	780	2,025	1,265	44	—	44	129	—	—	—	1,092	8.8
1932	1,941	18	760	—	760	2,719	1,679	46	—	46	108	—	—	—	925	7.4
1933	1,206	20	740	—	740	1,966	1,096	47	—	47	120	—	—	—	889	7.1
1934	1,700	25	510	—	510	2,201	1,311	39	—	39	126	—	—	—	1,146	9.1
1935	1,433	46	690	—	690	2,169	1,239	37	—	37	131	—	—	—	1,071	8.4
1936	1,727	31	830	—	830	2,588	1,418	43	—	43	125	—	—	—	1,150	9.0
1937	1,454	46	620	—	620	2,120	1,180	43	—	43	130	—	—	—	1,007	7.8
1938	1,472	16	1,000	—	1,000	2,488	1,428	54	—	54	125	—	—	—	1,249	9.6
1939	1,425	14	1,060	—	1,060	2,499	1,429	90	—	90	124	—	—	—	1,215	9.3
1940	1,579	14	1,070	—	1,070	2,663	1,373	134	—	134	135	—	—	—	1,104	8.4
1941	1,710	26	1,290	—	1,290	3,026	1,660	91	205	296	146	—	60	—	1,166	8.8
1942	1,757	27	1,270	88	1,358	3,142	1,951	59	135	194	152	—	140	—	1,465	11.1
1943	1,944	121	983	208	1,191	3,256	1,315	32	359	390	184	—	194	—	1,151	8.9
1944	1,504	69	896	445	1,341	2,914	1,920	21	7/282	303	174	—	398	—	1,045	8.1
1945	1,195	34	644	350	994	2,223	1,750	62	235	297	139	—	309	—	1,005	7.8
1946	1,470	60	448	25	473	1,903	3/1,460	57	54	111	131	—	12	—	1,206	8.7
1947	3/1,411	31	355	—	355	1,797	1,360	185	24	209	148	—	8/75	—	928	6.5
1948	3/1,950	26	637	—	637	2,613	1,449	120	156	276	143	—	8/40	—	990	6.8
1949	8/2,002	30	1,164	—	1,164	3,202	1,388	117	20	137	147	—	8/88	—	1,016	6.9
1950	1,512	35	1,335	479	1,814	3,361	1,679	164	43	207	136	18	19	—	1,299	8.6
1951	1,563	13	999	603	1,602	3,278	1,748	233	76	309	127	19	76	—	1,217	8.1
1952	1,402	23	1,129	401	1,530	3,045	1,442	442	5	447	117	3	39	—	1,236	8.1
1953	1,650	28	992	211	1,203	2,881	1,710	318	26	344	125	12	41	—	1,188	7.6
1954	1,694	33	1,132	39	1,171	2,865	1,693	255	8	263	133	3	20	1	1,274	8.0
1955	1,667	35	762	2/430	1,192	2,894	1,597	164	31	195	134	3	14	72	1,211	7.5
1956	1,723	21	813	2/524	1,337	3,081	1,834	277	91	368	122	3	14	78	1,327	8.0
1957	1,567	15	772	2/475	1,247	2,829	1,775	266	107	373	116	4	10	46	1,272	7.6
1958	1,929	25	821	233	1,054	3,008	1,741	275	3	278	126	5	16	5	1,316	7.7
1959	1,894	19	918	349	1,267	3,176	1,986	469	44	513	126	3	11	2	1,335	7.7
1960	1,792	16	992	196	1,188	2,996	1,812	360	12	372	127	2	11	15	1,300	7.3
1961	2,029	19	851	333	1,184	3,232	1,810	191	35	226	118	2	15	110	1,449	8.0
1962	1,860	12	904	518	1,422	3,294	1,920	283	116	339	127	3	19	141	1,432	7.8
1963 9/	2,061	10	1,112	262	1,374	3,445	2,004	497	37	534	114	2	22	114	1,392	7.5

1/ Derived from Bureau of Census data, supplemented by USDA data since 1941. Dry peas included in exports through June 30, 1917 and in shipments to Territories through 1924. Includes garbanzos 1945 to date. 2/ Stocks on farms and in commercial warehouses. For the years 1909-41 and 1947-49, January 1 stock estimates for each year are based on: Official reports on sales of old-crop beans after January 1; estimates for the previous crop of homegrown seed saved on farms; estimates of farm home consumption; and estimated carryover stocks on the following September 1. January 1 stocks for 1943-46 represent interpolations based on official stock reports for December 1 of the preceding year and March of the corresponding year. Stocks on January 1, 1942 and 1950 to date are estimates. Beginning 1955, USDA stocks consist of beans under price-support loans, as of February 1 of each year, except for 30 million pounds in 1955, 169 million pounds in 1956, and 5 million pounds in 1957 that were owned by CCC. 3/ Total supply less ending stock. Difference in ending 1946 stocks and beginning 1947 stocks are due to change in coverage of available data. 4/ Includes seed for dry bean crop (officially reported), the snap and lima bean crops for processing and fresh use. An approximation of seed to plant the green crops, based on seeding rates per acre, was made through 1941. Beginning 1942, data based on disappearance of dry bean vegetable (garden) seed as of July 1, as reported by seed producers. 5/ Adjusted for transfer by military to nonmilitary agencies. Includes procurement for relief feeding in occupied or liberated areas. 6/ Civilian only, 1941 to date. 7/ Adjusted to include exports of garbanzos. 8/ Includes broken beans exported to occupied or liberated areas under the military civilian feeding program: 28 million pounds in 1947, 12 million in 1948, and 16 million in 1949. 9/ Preliminary.

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Table 75.--Dry field peas (cleaned basis): Supply and utilization, crop years, 1928-63 1/

Year	Supply						Utilization								
			Beginning stocks				Exports and shipments 5/				Domestic disappearance				
	Production 1/	Imports and inshipments 2/	Commercial 3/	USDA	Total	Total supply	Total use 4/	Commercial	USDA	Total	Feed, seed, and waste 6/	Food use: Military	Food use: Civilian: USDA donations	Food use: Civilian: Total	Food use: Civilian: Per capita 7/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1928	168	31	---	---	---	199	199	18	---	18	120	---	---	61	0.5
1929	162	41	---	---	---	203	203	14	---	14	136	---	---	53	.4
1930	190	15	---	---	---	205	205	8	---	8	136	---	---	61	.5
1931	198	20	---	---	---	218	218	11	---	11	124	---	---	83	.7
1932	188	21	---	---	---	209	209	7	---	7	133	---	---	69	.6
1933	233	25	---	---	---	258	258	4	---	4	146	---	---	108	.9
1934	257	17	---	---	---	274	274	5	---	5	167	---	---	102	.8
1935	297	13	14	---	14	324	234	9	---	9	156	---	---	69	.5
1936	248	11	90	---	90	349	245	16	---	16	157	---	---	72	.6
1937	285	14	104	---	104	399	239	18	---	18	144	---	---	73	.6
1938	147	8	164	---	164	319	4/221	17	---	17	131	---	---	73	.6
1939	172	12	193	---	193	377	276	38	---	38	143	---	---	95	.7
1940	202	13	101	---	101	316	285	22	---	22	166	---	---	97	.7
1941	346	12	31	---	31	389	322	19	30	49	209	---	---	64	.5
1942	676	10	49	18	67	753	475	8	93	101	286	15	---	73	.6
1943	1,002	8	86	192	278	1,288	694	5	8/192	197	248	9/150	---	99	.8
1944	802	12	10/177	417	594	1,408	1,139	44	264	308	248	9/484	---	99	.8
1945	537	10	11/132	137	269	816	770	100	229	329	251	84	---	106	.8
1946	12/610	2	46	---	46	661	585	118	---	118	210	12/152	---	105	.7
1947	13/582	9	76	---	76	667	521	59	28	87	137	12/229	---	68	.5
1948	330	9	146	---	146	485	360	39	23	62	123	56	---	119	.8
1949	492	12	89	36	125	429	253	36	---	36	128	36	---	53	.4
1950	397	5	86	90	176	488	398	58	---	58	166	50	---	124	.8
1951	353	7	90	---	90	450	338	62	---	62	144	23	---	109	.7
1952	246	10	112	---	112	368	291	52	---	52	146	12	---	81	.5
1953	305	9	77	---	77	391	312	60	---	60	145	6	---	101	.6
1954	211	8	79	---	79	398	378	121	---	121	163	5	---	89	.6
1955	267	17	20	---	20	304	284	42	---	42	161	2	---	79	.5
1956	498	5	20	---	20	523	401	116	---	116	166	1	---	118	.7
1957	361	6	122	---	122	489	339	112	---	112	127	---	---	100	.6
1958	266	8	150	---	150	424	384	153	---	153	155	1	---	75	.4
1959	500	3	40	---	40	543	458	215	---	215	124	1	---	118	.7
1960	324	3	85	---	85	412	380	177	---	177	144	1	---	58	.3
1961	354	3	32	---	32	389	369	196	---	196	143	1	---	29	.2
1962	496	3	20	---	20	519	467	240	---	240	143	1	---	83	.5
1963 13/	476	3	52	---	52	531	432	225	---	242	140	1	---	49	.3

1/ Season begins approximately September. Clean-out estimated through 1940.
2/ General imports through 1933; thereafter, imports for consumption. Includes dry peas, lupines, and lentils through 1933. Beginning 1934, includes dry peas and lentils only. Includes garbanzos prior to 1945.
3/ Stock figures 1942-46 officially reported. All other years estimated. Beginning 1939, data include dealers' stock of vegetable or garden seed as of July 1.
4/ Total supply less ending stocks. Difference in ending stocks of 1938 and beginning stocks of 1939 are due to change in coverage of available data.
5/ Data from U. S. Department of Commerce, except for period during World War II when this information was supplemented by data from USDA. The dry pea equivalent of dehydrated soups, etc. included beginning 1944. Includes garbanzos prior to 1945.
6/ Includes seed for planting the dry field crop and green crops for processing and fresh use. Seed to plant the dry field crop was estimated through 1940; subsequent years were reported by Crop Reporting Board. An approximation of seed to plant the green crops, based on estimated seeding rates per acre was made through 1938. Beginning 1939, data were based on disappearance of dry pea vegetable seed, fiscal year basis, as indicated by seed dealers' reports and other data. Feed and loss estimated by Crop Reporting Board 1928-60; beginning 1961, no longer reported and assumed to be negligible.
7/ Civilian only, 1942 to date.
8/ Adjusted to exclude exports of garbanzos.
9/ Excludes peas transferred by Army to nonmilitary agencies.
10/ Includes 9 million pounds procured by Army in 1943 and transferred in 1944.
11/ Includes 23 million pounds procured by Army in 1944 and transferred in 1945.
12/ Includes 3 million pounds of chipped peas in 1946 and 2 million pounds in 1947 shipped for civilian feeding.
13/ Preliminary.

of the Agricultural Stabilization and Conservation Service (ASCS) Farm Program; mill, elevator, and warehouse receipts; and other checks on crops. The Census of Agriculture, taken every 5 years, provides data on harvested acreages which are used as benchmarks for reviewing current acreage estimates.

Yield-per-acre estimates are based primarily on reports from farmers on the average yield per acre in their localities, on reports of acreage and production on individual farms, and actual field counts and measurements of crops in sample plots which are expanded to final yields. Before crops approach maturity, yields are forecast from reported conditions of the crop and measurements of crop growth characteristics in sample plots. The Federal Census enumeration of acreage and production of individual crops furnishes benchmarks or reviews current estimates when the census data become available.

Wheat

Recordkeeping of stocks of wheat on hand as of January 1 began in 1935 (table 76). These January 1 stocks consist of wheat in the following positions (the date in parentheses indicates when data were first collected): On farms(1927);in terminal markets (1927); in interior mills, elevators, and warehouses (1935); in merchant mills (1932); and CCC holdings not otherwise accounted for (1943). Since 1958, merchant mill stocks and, since 1961, terminal market stocks have been combined with those of mills, elevators, and warehouses. For 1909-34, comparable stocks were estimated by BAE by starting with July 1 stocks (estimated from partial coverage) and adding the new crop and July-December imports. From this total was deducted the estimated distribution for the July-December period, which included the quantity of wheat and flour exported and shipped, and the quantity estimated to have been used domestically for food, feed, and fall seeding.

Farm stocks are estimated quarterly from individual farm reports of production and grains on hand. Stocks in interior mills, elevators, and warehouses come from sample data from these firms reported to the Crop Reporting Board. CCC stocks not included in reports for other positions consist of wheat owned by CCC, wheat stored in bins or other storage owned or controlled by CCC; and CCC-owned grain in transit and in Canadian elevators.

Imports include full-duty wheat, wheat imported for feed, and dutiable flour in terms of wheat. They exclude wheat imported for milling in bond and exported as flour. Such data were compiled from reports of the Bureau of the Census.

Exports and shipments for 1909-34 include all wheat and flour exported to foreign countries and shipments to Territories (including estimates for Alaska and Hawaii, April 1948 to 1959), minus wheat imported for milling in bond. In 1935-40, they included exports of wheat, flour made wholly of U.S. wheat, shipments, and domestic wheat and flour used with foreign wheat in milling in bond. Data were compiled from reports of the Bureau of the Census. For the war years, USDA shipments for stockpiling in the Territories were added to reported Census totals. Wheat, flour, and other products used for civilian relief in occupied areas are included with military takings as measured at the time of procurement. Although military procurement of flour was reported for most of the war period, purchases of bread had to be estimated on the basis of surveys of naval shore stations and Army baking facilities in this country.

Nonfood items in domestic disappearance include wheat used for seed, alcohol, and feed. The quantity used for seed is reported by the Crop Reporting Board, and that for alcohol by the Internal Revenue Service.The balance is assumed to represent quantity used for feed. Feed use includes that used in mixed commercial feeds and wheat fed on farms where grown. Since it was derived as a balancing item, feed also reflects errors in other data.

Wheat used for food is measured when withdrawn for processing rather than when distributed, because complete data on stocks of flour are not available. Available data indicate little change in

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Table 76.--Wheat: Supply and utilization, 1909-63 1/

Year	Supply						Utilization									
			Beginning stocks					Exports and shipments			Domestic disappearance					
												Food use				
													Civilian 6/			
	Production	Imports	Commercial	USDA	Total 2/	Total supply	Total use	Commercial	USDA 3/	Total	Nonfood use 4/	Military 5/	USDA donations	Total	Per capita
	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Lb.
1909	684	1	---	---	378	1,063	668	---	---	96	97	---	---	475	315
1910	625	7/	---	---	395	1,020	608	---	---	66	64	---	---	478	310
1911	618	2	---	---	412	1,032	632	---	---	88	59	---	---	485	310
1912	730	3	---	---	400	1,133	660	---	---	114	60	---	---	486	306
1913	751	1	---	---	473	1,225	743	---	---	160	94	---	---	489	302
1914	897	1	---	---	482	1,380	856	---	---	236	123	---	---	497	301
1915	1,009	4	---	---	524	1,537	879	---	---	282	97	---	---	500	299
1916	635	7	---	---	658	1,300	836	---	---	224	105	---	---	507	298
1917	620	8	---	---	464	1,092	760	---	---	146	145	---	---	469	272
1918	904	7/	---	---	332	1,236	750	---	---	194	125	---	---	431	247
1919	952	7/	---	---	486	1,438	834	---	---	263	85	---	---	486	277
1920	843	7/	---	---	604	1,447	923	---	---	277	180	---	---	466	263
1921	819	5	---	---	524	1,348	928	---	---	341	144	---	---	443	245
1922	847	14	---	---	420	1,281	815	---	---	228	111	---	---	476	259
1923	760	10	---	---	466	1,236	793	---	---	168	140	---	---	485	260
1924	842	7	---	---	443	1,292	859	---	---	235	137	---	---	487	256
1925	669	1	---	---	433	1,103	732	---	---	131	99	---	---	502	260
1926	832	7/	---	---	371	1,203	773	---	---	182	84	---	---	507	259
1927	875	7/	---	---	430	1,305	836	---	---	220	101	---	---	515	260
1928	914	7/	---	---	469	1,383	822	---	---	135	175	---	---	512	255
1929	824	7/	---	---	561	1,385	803	---	---	144	144	---	---	515	254
1930	887	7/	---	---	582	1,469	816	---	---	132	178	---	---	506	247
1931	942	7/	---	---	653	1,595	880	---	---	113	270	---	---	497	240
1932	756	7/	---	---	715	1,471	762	---	---	75	184	---	---	503	242
1933	552	7/	---	---	709	1,261	677	---	---	19	173	---	---	485	232
1934	526	8	---	---	584	1,118	686	---	---	28	190	---	---	468	222
1935	628	27	---	---	432	1,087	659	---	---	8	174	---	---	477	225
1936	630	40	---	---	428	1,098	727	---	---	10	215	---	---	502	235
1937	874	9	---	---	371	1,254	721	---	---	50	182	---	---	489	228
1938	920	7/	---	---	533	1,453	806	---	---	111	200	---	---	495	229
1939	741	7/	---	---	647	1,388	782	---	---	94	196	---	---	492	225
1940	815	7/	---	---	606	1,421	697	---	---	37	176	---	---	484	220
1941	942	6	---	---	724	1,672	672	35	1	36	144	7	---	485	221
1942	969	1	---	---	1,000	1,970	818	16	10	26	286	18	---	488	223
1943	844	49	---	---	1,152	2,045	1,227	20	24	44	657	33	---	493	229
1944	1,060	125	---	---	818	2,003	1,175	29	21	50	586	87	---	452	211
1945	1,108	7	---	---	828	1,943	1,261	51	128	179	417	170	---	495	230
1946	1,152	7/	---	---	682	1,834	1,192	100	204	304	327	67	---	494	214
1947	1,359	7/	---	---	642	2,001	1,200	162	229	391	221	122	---	466	196
1948	1,295	7/	---	---	801	2,096	1,231	116	208	324	249	189	---	469	194
1949	1,098	2	---	---	865	1,965	1,065	70	164	234	181	176	---	474	193
1950	1,019	4	738	162	900	1,923	921	137	76	213	189	38	---	481	192
1951	988	27	731	271	1,002	2,017	1,163	302	152	454	196	34	---	479	190
1952	1,306	32	718	136	854	2,192	1,083	370	43	413	176	14	---	480	188
1953	1,173	6	977	132	1,109	2,288	954	230	43	273	195	14	---	472	182
1954	984	5	886	448	1,334	2,323	842	219	14	233	125	11	---	473	178
1955	937	6	732	749	1,481	2,424	857	117	160	277	99	9	7/	472	174
1956	1,005	10	678	889	1,567	2,582	1,093	141	336	477	139	9	26	468	170
1957	956	10	649	840	1,489	2,455	1,070	182	317	499	94	7	6	470	167
1958	1,457	9	629	756	1,385	2,851	1,031	151	266	417	124	8	8	482	169
1959	1,121	8	1,043	777	1,820	2,949	1,074	128	320	448	132	7	9	487	167
1960	1,357	7	766	1,109	1,875	3,239	1,171	164	441	605	70	7	8	489	165
1961	1,235	7	935	1,133	2,068	3,310	1,327	242	490	732	94	6	12	495	164
1962	1,094	5	853	1,130	1,983	3,082	1,265	195	438	633	137	7	14	488	160
1963 8/	1,142	5	772	1,045	1,817	2,964	1,350	213	540	753	92	6	13	499	160

1/ Flour and other wheat products included, expressed in grain equivalent. 2/ Including stocks on farms, in terminal markets, interior mills, elevators and warehouses, merchant mills, and beginning 1943, CCC holdings. 3/ U S D A procurement for export other than supplies for civilian feeding in occupied areas 1941 to 1955; comparable data not available in earlier years. Beginning 1955, includes P.L. 480 and A I D exports only. 4/ Feed, seed, and alcohol. 5/ Including procurement for civilian feeding in areas occupied by our Armed Forces. 6/ Civilian only, 1941 to date. 7/ Less than 500,000 bushels. 8/ Preliminary.

the level of stocks from year to year. Consumption of flour was determined by adding imports of flour to domestic production of flour (an estimate of home-produced use was added to production) and by deducting the following items: Exports and shipments, military procurement, and breakfast food produced in the flour-milling industry (table 77). Commercially produced flour for 1909-39 was estimated by BAE largely on the basis of figures from the Census of Manufactures, as adjusted by the Food Research Institute. Millings were reported by the Bureau of the Census from 1940 to date; revisions for 1940-44 were developed by Census in cooperation with BAE.

Flour consumption includes semolina, whose use was approximated by BAE for 1909-24. From 1925 to date, semolina use includes production plus imports, minus exports of semolina, durum flour, and macaroni products, and minus military food use, all in terms of semolina and durum flour.

Wheat for food includes use in breakfast foods. Estimates of wheat used for breakfast foods before 1931 were based on scattered trade information. Beginning with 1931, the series was based on reports of the Census of Manufactures.

Rye

Stocks of rye currently are reported for the same locations as for wheat. For the years before 1944, only stocks on farms and in terminals were used. Those on farms for 1909 were estimated by BAE, but the Crop Reporting Board reported farm stocks as of December 1 for 1909-43. Figures for terminal stocks, 1910-26, were taken from records of the Chicago Board of Trade; they include grain in regularly authorized warehouses at leading grain centers east of the Rocky Mountains, and grain in transit by canals and lakes. Since July 1911, the figures have included stocks at Omaha and in private elevators at Chicago, St. Louis, and Buffalo. Since 1917-21, Canadian rye in bond has been included. Imports and exports, including flour in rye equivalent, were taken from the Bureau of the Census figures.

For 1909-48, food use of rye was computed as the rye equivalent (76.1-percent extraction rate) of flour production, plus imports, and minus exports and military procurement. Production of rye flour for 1909-34 was estimated by BAE from data in the Census of Manufactures. For 1935-44, flour production was estimated jointly by PMA and BAE on the basis of rye flour production reported in The Northwestern Miller (53) and the Census of Manufactures. From 1945 on, food use of rye was the quantity of rye ground for flour, reported monthly by the Bureau of the Census; plus ground rye for home use or exchanged for flour, reported by BAE (discontinued in 1954); plus imports, and minus exports and military procurement of flour in grain equivalent (table 78).

Nonfood items for which rye is used include seed, spirits and alcohol, and feed. Seed is reported by the Crop Reporting Board, and spirits and alcohol by the Internal Revenue Service. The residual is considered the approximate quantity fed.

Buckwheat

Estimates of buckwheat consumption were computed as follows: Production of flour, plus that ground for home use through 1960 (converted from grain at 60 percent), plus imports, minus exports. Flour produced from 1909-39 was based on figures from the Census of Manufactures; that produced from 1940 to date was estimated by BAE and ERS.

Rice

For rice, data on per capita food consumption are given in terms of milled rice, though total consumption is reported on both a rough and milled basis (table 79). The marketing years beginning the previous August in the South and the previous October in California were used for the calendar years. Stocks of rice reported by SRS include quantities on farms, in country warehouses, in ports or in transit, and at mills and attached warehouses. In addition, they include USDA holdings outside mills for 1943-51.

Information on imports, exports, and shipments of rice come from reports of

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Table 77.--Flour, wheat: Supply and utilization, 1935-63

Calendar year	Supply: Production 1/	Supply: Imports of dutiable flour, semolina, and products	Supply: Total supply and use	Utilization: Exports and shipments: Flour only: Commercial 2/	Utilization: Exports and shipments: Flour only: USDA 3/	Utilization: Exports and shipments: Flour only: Total	Utilization: Exports and shipments: Other products in terms of flour 4/	Utilization: Used in the milling industry 5/	Utilization: Domestic disappearance for food: Military 6/	Utilization: Domestic disappearance for food: Civilian 7/: USDA donations	Utilization: Domestic disappearance for food: Civilian 7/: Total	Utilization: Domestic disappearance for food: Civilian 7/: Per capita
	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	Lb.
1935	208,517	40	208,557	---	---	7,605	61	75	---	---	200,816	158
1936	217,618	93	217,711	---	---	8,413	83	80	---	---	209,135	163
1937	214,459	61	214,520	---	---	10,026	90	82	---	---	204,322	159
1938	219,174	21	219,195	---	---	11,505	100	83	---	---	207,507	160
1939	223,589	55	223,644	---	---	16,453	130	83	---	---	206,978	158
1940	217,300	68	217,368	---	---	12,672	101	83	---	---	204,512	155
1941	220,957	16	220,973	12,623	294	12,917	101	83	2,980	---	204,892	156
1942	224,594	89	224,683	7,564	3,419	10,983	138	84	7,625	---	205,853	157
1943	240,671	58	240,729	7,252	8,897	16,149	951	85	13,849	---	209,695	163
1944	245,757	82	245,839	12,790	7,764	20,554	1,017	85	32,711	---	191,472	149
1945	276,520	60	276,580	18,022	5,233	23,255	2,651	86	42,686	---	207,902	161
1946	280,688	15	280,703	35,879	18,937	54,816	1,360	87	7,854	---	216,586	156
1947	307,191	10	307,201	63,922	20,312	84,234	1,341	88	22,989	---	198,549	139
1948	280,742	14	280,756	39,837	15,164	55,001	2,549	88	24,162	---	198,956	137
1949	235,720	75	235,795	24,334	3,598	27,932	266	88	7,366	---	200,143	136
1950	226,131	48	226,179	19,203	2,009	21,212	211	88	2,221	---	202,447	135
1951	230,468	50	230,518	22,518	2,103	24,621	198	88	4,815	---	200,796	133
1952	229,267	43	229,310	21,607	874	22,481	248	88	4,918	---	201,575	131
1953	223,247	88	223,335	18,421	596	19,017	243	88	4,642	---	199,345	128
1954	222,392	85	222,477	18,036	448	18,484	256	88	3,944	---	199,705	126
1955	226,500	91	226,591	22,153	1,025	23,178	317	88	3,665	158	199,343	123
1956	230,490	98	230,588	22,570	3,873	26,443	343	88	3,829	1,516	199,885	121
1957	239,551	95	239,646	25,980	9,663	35,643	526	88	3,189	2,652	200,200	119
1958	248,580	121	248,701	24,663	12,227	36,890	491	88	3,395	3,589	207,837	121
1959	251,075	145	251,220	18,519	19,952	38,471	518	88	2,888	3,992	209,255	120
1960	255,596	141	255,737	14,295	28,174	42,469	487	88	2,927	3,638	209,766	118
1961	260,746	131	260,877	10,121	33,654	43,775	502	88	2,714	5,208	213,798	118
1962	262,483	132	262,615	14,080	33,997	48,077	371	88	2,860	5,379	211,219	115
1963 8/	264,265	136	264,401	7,082	37,713	44,795	1,085	88	2,822	4,963	215,611	116

1/ Based on commercial production of wheat flour, reported by Census; includes flour milled in bond from foreign wheat plus the estimated flour equivalent of farm wheat ground or exchanged for flour for farm household use, as reported by Statistical Reporting Service. 2/ Commercial exports include milled-in-bond flour made from imported wheat. 3/ USDA procurement for export other than supplies for civilian relief feeding in occupied areas 1941 to 1955; comparable data in prior years not available. Beginning 1955, includes P.L. 480 and A I D exports only. 4/ Commercial exports and USDA procurement for export of semolina, macaroni, and bakery products in terms of flour. 5/ Primarily for production of breakfast food. 6/ Flour and products in flour equivalent. Covers supplies for civilian relief feeding in occupied areas as well as those for direct use of U. S. Armed Forces. 7/ Residual after all known disappearance items are subtracted from the supply; includes flour used by commercial bakeries and a small amount of flour used in manufacturing starch, gluten, dog and pet foods, and for other industrial purposes. 8/ Preliminary.

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Table 78.—Rye: Supply and utilization, 1909-63

Year	Supply						Utilization								
			Beginning stocks				Exports 3/			Domestic disappearance					
											Food use				
												Civilian			
	Production	Imports	Commercial	USDA	Total 1/	Total supply	Total use 2/	Commercial	USDA 4/	Total	Nonfood use 5/	Military	USDA donations	Total 6/	Per capita 6/
	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Mil.bu.	Lb.
1909	30.1	7/	---	---	11.1	41.2	29.6	---	---	0.4	21.8	---	---	7.4	4.6
1910	29.1	7/	---	---	11.6	40.7	29.9	---	---	7/	22.1	---	---	7.8	4.7
1911	31.4	7/	---	---	10.8	42.2	31.4	---	---	7/	23.2	---	---	8.2	4.9
1912	37.9	7/	---	---	10.8	48.7	33.0	---	---	.5	23.9	---	---	8.6	5.0
1913	40.4	7/	---	---	15.7	56.1	35.9	---	---	2.0	24.9	---	---	9.0	5.2
1914	42.1	7/	---	---	20.2	62.3	40.6	---	---	8.1	23.3	---	---	9.2	5.2
1915	46.8	7/	---	---	21.7	68.5	41.1	---	---	13.5	21.2	---	---	9.4	5.2
1916	43.1	7/	---	---	24.4	67.5	50.7	---	---	15.7	25.1	---	---	9.9	5.4
1917	60.3	7/	---	---	16.8	77.1	54.7	---	---	14.4	31.5	---	---	8.8	4.7
1918	83.4	0.6	---	---	22.4	106.4	57.4	---	---	14.3	37.4	---	---	5.7	3.0
1919	78.7	1.2	---	---	49.0	128.9	76.3	---	---	33.7	31.0	---	---	6.6	3.5
1920	61.9	.8	---	---	52.6	115.3	88.5	---	---	58.7	21.9	---	---	7.9	4.2
1921	61.0	.8	---	---	26.8	88.6	60.9	---	---	30.1	24.3	---	---	6.5	3.3
1922	101.0	.1	---	---	27.7	128.8	79.4	---	---	47.5	24.7	---	---	7.2	3.6
1923	56.0	7/	---	---	49.4	105.4	61.9	---	---	31.7	23.0	---	---	7.2	3.6
1924	58.4	7/	---	---	43.5	101.9	62.5	---	---	36.7	19.0	---	---	6.8	3.4
1925	42.3	7/	---	---	39.4	81.7	51.9	---	---	28.8	15.6	---	---	7.5	3.6
1926	34.9	7/	---	---	29.8	64.7	35.9	---	---	12.0	16.0	---	---	7.9	3.8
1927	51.1	7/	---	---	28.8	79.9	60.2	---	---	36.1	16.0	---	---	8.1	3.8
1928	37.9	7/	---	---	19.7	57.6	37.9	---	---	14.6	15.4	---	---	7.9	3.7
1929	35.4	7/	---	---	19.7	55.1	29.6	---	---	3.5	18.2	---	---	7.9	3.6
1930	45.4	7/	---	---	25.5	70.9	40.4	---	---	.3	32.4	---	---	7.7	3.5
1931	32.9	.1	---	---	30.5	63.4	40.0	---	---	.1	32.5	---	---	7.4	3.4
1932	39.1	7/	---	---	23.4	62.5	35.9	---	---	1.1	26.8	---	---	8.0	3.6
1933	20.6	8.1	---	---	26.6	55.3	2/28.4	---	---	7/	19.9	---	---	8.5	3.8
1934	16.3	7.6	---	---	24.1	48.0	28.8	---	---	7/	21.0	---	---	7.8	3.4
1935	56.9	9.7	---	---	19.2	85.8	52.4	---	---	7/	44.8	---	---	7.6	3.3
1936	24.2	3.9	---	---	33.4	61.5	44.6	---	---	7/	37.6	---	---	7.0	3.0
1937	48.9	.2	---	---	16.9	66.0	43.0	---	---	4.3	32.3	---	---	6.4	2.8
1938	56.0	7/	---	---	23.0	79.0	44.6	---	---	3.3	35.0	---	---	6.3	2.7
1939	38.6	7/	---	---	34.5	73.0	41.5	---	---	.1	34.5	---	---	6.9	3.0
1940	39.7	7/	---	---	31.5	71.2	40.1	---	---	1.1	31.7	---	---	7.3	3.1
1941	43.9	9.9	---	---	31.1	84.9	45.0	---	---	7/	38.1	---	---	6.9	2.9
1942	52.9	.4	---	---	39.9	93.2	42.8	---	---	.3	34.7	---	---	7.8	3.3
1943	33.7	2.0	---	---	50.4	81.1	2/46.5	---	---	.5	36.7	---	---	9.3	4.0
1944	22.5	10.8	---	---	42.1	75.4	49.8	---	---	.6	41.3	---	---	7.9	3.4
1945	23.7	2.7	---	---	25.6	52.0	38.8	---	---	8/6.5	24.8	---	---	7.5	3.3
1946	18.5	1.0	---	---	13.2	32.7	24.3	---	---	3.5	15.1	---	---	5.7	2.3
1947	25.5	.8	---	---	8.4	34.7	20.4	---	---	1.8	14.2	---	---	4.4	1.7
1948	25.9	2.0	---	---	14.3	42.2	25.1	---	---	8/1.5	19.0	---	---	4.6	1.8
1949	18.1	12.2	---	---	17.1	47.4	30.2	---	---	8/8.5	16.9	---	---	4.8	1.8
1950	21.4	3.9	16.4	.8	17.2	42.5	24.0	---	---	8/3.3	15.8	---	---	4.9	1.8
1951	21.5	1.6	18.1	.4	18.5	41.6	25.9	1.1	9/4.4	5.5	15.2	---	---	5.2	1.9
1952	16.1	2.1	15.6	.1	15.7	33.9	24.7	---	---	4.5	14.8	---	---	5.4	2.0
1953	18.9	15.9	9.2	7/	9.2	44.0	22.3	---	---	7/	17.1	---	---	5.2	1.9
1954	26.0	5.0	21.6	.1	21.7	52.7	26.3	---	---	1.1	20.2	---	---	5.0	1.8
1955	29.1	3.4	24.1	2.3	26.4	58.9	30.3	3.0	2.3	5.3	19.9	---	---	5.1	1.8
1956	21.3	3.4	25.3	3.3	28.6	53.3	34.3	3.6	7.1	10.7	18.7	---	---	4.9	1.7
1957	28.5	3.3	12.7	6.3	19.0	50.8	30.7	4.4	1.8	6.2	19.8	---	---	4.7	1.6
1958	33.2	3.3	18.4	1.7	20.1	56.6	32.0	2.4	4.9	7.3	20.1	---	---	4.6	1.5
1959	23.1	3.8	22.6	2.0	24.6	51.5	31.5	5.3	.1	5.4	21.6	---	---	4.5	1.4
1960	33.1	2.8	16.8	3.2	20.0	55.9	30.0	4.2	.7	4.9	20.5	---	---	4.6	1.4
1961	27.5	1.0	21.6	4.3	25.9	54.4	34.9	7.1	1.5	8.6	21.9	---	---	4.'	1.4
1962	40.8	.2	16.3	3.2	19.5	60.5	36.8	15.4	.2	15.6	16.5	---	---	4.7	1.4
1963 10/	29.2	.7	22.7	1.0	23.7	53.6	38.9	14.5	---	14.5	19.7	---	---	4.7	1.4

1/ Farm stocks 1909-33, as of December 1 previous year; 1934 to date, January 1. Terminal stocks 1909 to date, January 1. Beginning 1944, includes not only farm and terminal stocks, but also stocks in interior mills and elevators. 2/ Total supply less ending stocks. Years in which ending stocks do not equal beginning stocks of the following year are cited. 3/ Includes flour in terms of rye. 4/ Includes only P. L. 480 and AID programs, beginning 1955; earlier data not available except in 1951. 5/ Feed, seed, and alcohol. 6/ May include negligible quantities of rye flour procured by the Armed Forces. 7/ Less than 50,000 bushels. 8/ Includes rye for civilian relief feeding in areas occupied by the Armed Forces as follows: 1 million bushels in 1945 and 1948; 3.3 million bushels in 1949; and 0.5 million bushels in 1950. 9/ USDA procurement for export. 10/ Preliminary.

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Table 7.--Rice (rough equivalent): Supply and utilization, 1935-63 1/

Year ending July	Supply						Utilization										
			Beginning stocks				Exports and shipments					Domestic disappearance for food					
							Exports							Civilian 7/			
	Production 2/	Imports and inshipments	Commercial	USDA	Total 3/	Total supply	Total use	Commercial	USDA 4/	Total	Shipments 5/	Nonfood use 6/	Military	Total, rough basis	USDA donations	Milled basis Total	Milled basis Per capita
	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	1,000 cwt.	Lb.
1935	12,571	980	8/	8/	2,582	16,133	10,238	8/	8/	1,733	4,620	3,165	---	10,720	---	7,290	5.7
1936	16,733	901	8/	8/	894	18,549	10,265	8/	8/	1,145	4,340	2,760	---	10,020	---	6,810	5.3
1937	22,419	2,794	8/	8/	1,284	26,497	22,785	8/	8/	993	4,310	5,972	---	11,510	---	7,830	6.1
1938	24,049	1,811	8/	8/	3,712	29,563	23,916	8/	8/	4,764	4,930	4,832	---	11,390	---	7,830	6.1
1939	23,646	1,018	8/	8/	3,147	27,793	23,146	8/	8/	4,767	4,370	3,779	---	10,630	---	7,340	5.6
1940	24,308	849	8/	8/	4,247	29,224	23,989	8/	8/	4,484	4,964	3,181	---	11,360	---	7,780	5.9
1941	24,492	334	8/	8/	5,235	30,064	27,136	8/	8/	5,691	4,833	5,474	---	11,150	---	7,730	5.9
1942	28,055	156	8/	8/	2,946	26,177	25,710	5,542	1,010	6,552	4,596	3,702	300	10,460	---	7,030	5.3
1943	29,062	136	8/	8/	467	29,785	27,460	921	6,040	6,961	3,795	4,774	1,200	10,730	---	7,340	5.7
1944	29,264	77	8/	8/	2,325	31,666	29,838	109	6,960	7,069	4,823	6,696	1,160	10,090	---	6,940	5.4
1945	30,97	9/	8/	8/	1,828	32,802	31,244	5,361	4,840	10,201	4,928	4,005	2,890	9,220	---	6,320	4.9
1946	30,668	127	1,193	365	1,558	32,353	31,098	6,259	5,210	11,469	4,610	4,429	2,780	7,810	---	5,390	4.0
1947	32,497	9	715	537	1,255	33,761	33,165	6,641	5,650	12,291	4,183	5,261	1,920	9,510	---	6,600	4.7
1948	34,217	27	866	230	996	35,240	35,092	8,665	4,390	13,055	4,869	6,268	640	10,260	---	7,060	4.9
1949	38,275	93	723	15	748	39,076	36,971	13,228	1,150	14,378	4,872	6,311	460	10,550	---	7,320	5.0
1950	40,789	82	2,494	11	2,505	43,376	39,867	15,204	1,020	16,224	5,698	6,865	70	11,010	---	7,640	5.1
1951	38,620	787	3,010	459	3,469	43,076	38,957	11,827	1,340	13,167	5,028	7,592	160	12,610	---	8,740	5.8
1952	46,089	542	4,141	378	4,519	51,150	49,110	18,968	5,090	24,058	5,026	8,346	460	11,220	---	8,060	5.3
1953	48,143	350	1,814	226	2,040	50,583	49,068	22,042	3,080	25,122	5,084	6,792	310	11,760	---	8,330	5.4
1954	52,834	417	1,513	8	1,515	54,766	47,220	20,766	1,940	22,703	4,689	7,547	240	12,040	---	8,370	5.3
1955	64,193	66	6,629	917	7,546	71,804	45,104	13,591	689	14,280	5,604	12,294	130	11,796	228	8,650	5.5
1956	69,902	194	10,844	1,856	12,700	82,796	48,178	9,543	9,125	18,668	5,294	10,277	160	13,779	503	9,570	5.8
1957	49,459	386	7,156	27,062	34,618	84,463	64,360	6,771	30,777	37,548	5,210	7,733	115	13,754	803	9,593	5.7
1958	42,935	237	7,396	12,507	20,103	63,275	45,106	8,731	9,584	18,315	5,664	7,874	194	13,059	848	9,130	5.4
1959	44,760	164	6,166	12,003	18,169	63,093	47,424	10,045	9,705	19,750	6,075	8,866	262	12,471	1,128	8,686	5.0
1960	53,647	790	6,248	9,421	15,669	70,106	57,962	11,126	18,107	29,233	5,152	8,052	128	15,397	1,000	10,849	6.1
1961	54,591	288	5,280	6,864	12,144	67,023	56,943	9,233	20,241	29,474	3,996	7,576	178	15,719	1,167	11,153	6.2
1962	54,198	389	5,956	4,124	10,080	64,667	59,333	16,345	12,810	29,155	3,560	7,630	224	18,764	1,413	13,426	7.4
1963 10/	66,045	39	5,015	319	5,334	71,418	63,688	15,621	19,445	35,066	4,172	6,669	164	17,617	1,236	12,209	6.6

1/ Data begin August prior to year indicated. Includes milled rice converted to rough basis at annual extraction rate.
2/ Major rice producing States only.
3/ Include stocks on farms, at mills, in warehouses, in ports, and in transit.
4/ USDA procurement for export through 1954. P.L. 480 and AID exports, beginning 1955.
5/ Shipments to United States Territories; excludes shipments to Alaska and Hawaii, beginning 1960.
6/ For feed, seed, and beer production.
7/ Civilian only, beginning 1941.
8/ Not available.
9/ Less than 500 hundredweight.
10/ Preliminary.

the Bureau of the Census. Before 1941, export data were on a marketing-year basis. For 1941 to date, a July-June year was used because USDA deliveries and data on military procurement are more complete on such a basis. Because exports and military procurement for July, which is usually the low point of the year in rice marketing, have not differed greatly from one year to another, use of the July-June year does not affect the results significantly. Exports include rough rice in terms of milled equivalents and exclude shipments by the Armed Forces for civilian relief feeding. Procurement for civilian relief feeding has been included with procurement for the use of the Armed Forces because for certain periods they were not reported separately. Census data on shipments to Territories for April 1948 to 1959 have been supplemented by trade information on shipments to Alaska and Hawaii.

Civilian rice consumption since 1935 consists of commercially milled rice produced from domestic grain and, prior to the 1961 crop, rice used on farms where grown. No reports are available on stocks held by wholesalers and retailers. For 1909-21, use of rice for food was calculated from available data on stocks, production, imports, exports, seed, and feed. Compared with information for later years, these data are relatively unsatisfactory. Estimates of rice consumption in 1922-34 were taken from annual reports of the Rice Millers Association.

Nonfood use of rice includes use for seed and feed, broken rice used by brewers (other than brewers' rice), and the residual which includes drying loss, waste, and measurement errors that occur when rice is converted from rough to milled rice.

Corn, Oats, and Barley

Production data for corn, oats, and barley harvested as grain have been reported by the Crop Reporting Board, USDA, for many years. Information on farm stocks of corn and oats has been collected quarterly since April 1926. Farm stocks of barley have been estimated for January 1 and July 1 since 1934 and quarterly since 1939. The Grain Division of C&MS has reported stocks of these three feed grains at terminal markets since 1927. Beginning with April 1943, the Crop Reporting Board has compiled a quarterly series of off-farm stocks, including stocks at interior mills, elevators, and warehouses. Terminal market stocks were added beginning in October 1960. Total stocks in all positions were broken down between Government stocks (those owned by CCC and under loan) and commercial stocks, on the basis of data furnished by ASCS and the Crop Reporting Board.

Statistics on production, imports, and changes in the quarterly stocks of grains are the basis for estimating disappearance of these grains quarterly and annually. The quantity of grain consumed in this country for all purposes was ascertained by subtracting the volume of grain exported from total disappearance.

Information on the domestic uses of these grains was obtained from many sources. These include reports on processing for food and industrial uses, estimates of the Crop Reporting Board on farm household use from 1927-60, and reports on utilization of the grains in production of malt beverages, alcohol, and distilled spirits. Use for seed was estimated on the basis of seeding rates times planted acreage during the planting season. The residual in a given year is largely used for feed, but it also includes other minor uses and waste.

Estimated domestic consumption of cereal products from corn and oats is based on the production or sale of these products, as reported by industry or the Bureau of the Census; it is adjusted for imports, exports, and domestic nonfood uses. Estimates of consumption of cornmeal, hominy grits, and corn and oat cereals are reported by the Census of Manufactures for census years; interpolations are made for intercensal years. For this reason estimates of data for intervening years indicate the general level or trend of consumption, but not necessarily the actual consumption for those years.

Annual and monthly data, however, have been reported on the shipments or sales of corn sirup, corn sugar, and starch for most of the period since

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1909. These data were reported by the Corn Refiners Statistical Bureau for early years; b, Price Waterhouse and Company, and Dunn and Bradstreet of New York for recent years. Sales data were adjusted for industrial and other nonfood uses, exports, and military consumption. Quantities of corn products used in the manufacture of malt liquors and other alcoholic beverages were not included in food uses.

Estimates of domestic consumption of cornmeal and flour include consumption in farm households and output of commercial mills for civilian food use (table 80). Data for 1909-18 were based on: (1) Census of Manufactures for 1909, which covers cornmeal and corn flour produced in merchant and grist mills, and (2) data published by the War Industries Board (7). These cornmeal production estimates were adjusted downward to allow for some duplication between custom milling and use as livestock and poultry feed. Data for 1919-39 were based on production of cornmeal and flour in merchant mills reported in the Census of Manufactures. From 1940 to date, estimates were based on information furnished by the dry-processing industry to the War Food Administration, and by the 1947, 1954, and 1958 Censuses of Manufactures. Corn consumed for use in farm households on farms where grown, converted to cornmeal basis, was added to the estimated quantities of cornmeal produced in merchant mills for the years 1909-60. The farm household use of corn has declined to an insignificant level in recent years and has not been reported since 1960.

Information on prepared breakfast cereals made from corn was based on production data in the Census of Manufactures for census years from 1914 to 1939. Data for 1940 to date were based on industry reports made to the War Food Administration and on the 1947, 1954, and 1958 Censuses of Manufactures.

Production of hominy and grits was reported by the Bureau of the Census for the census years 1909 to 1958. From 1937 to date, quantities produced for human consumption were reported separately from those used for nonfood purposes. In earlier years, estimated quantities used in making fermented malt liquor were deducted from total production to derive the quantity used for human consumption. Use for human food in the intervening years was derived by straight-line interpolation between census years.

The chief food product made from oats is oatmeal. Allowances have been made in recent years for ready-to-eat cereals and infant food processed from oats. Estimates of ready-to-eat cereals and infant foods made from oats are based on census data on prepared cereal products and on information from the industry. Oatmeal consumption data were derived from production statistics taken from several sources and were adjusted for noncivilian uses. Data for 1909-12 were based on oatmeal production given in General Index Numbers of Food Prices on a Nutritive Value Basis (54). Data for 1913-18 were based on oatmeal production from the War Industries Board (103). Data for 1919 to date were based on reports of the Census of Manufactures and on information furnished by industry to the War Food Administration for the World War II period (table 81).

Consumption of food products made from barley include quantities of malt, meal, flour, and pearl barley consumed as food (table 82). Census data indicate that before 1919, and especially during World War I, considerable quantities of barley meal were used for food. Data on this use are not available for later years, but it is assumed to have been small since 1919. The food use of malt in 1909-18 was assumed to approximate the 1919 level estimated from census data. In recent years, barley malt has been the principal food use of barley. Malt is used for such purposes as malt extracts, malt sirup, malt drinks, and prepared infant and breakfast foods. The quantity of barley malt used in producing malt liquors or other alcoholic beverages was not included as a food use. The food use of barley malt for most of the years from 1919 to date was based on statistics of the Bureau of the Census on malt production (with allowance for the quantities used in producing alcoholic beverages, as reported by the Internal Revenue Service), and on information furnished by

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Table 8 .--Corn, grain only: Supply and utilization, 1927-63

Calendar year	Supply						Utilization							
			Beginning stocks					Exports and shipments			Domestic disappearance			
												Food use		
													Civilian 7/	
	Production	Imports	Commercial	USDA 1/	Total 2/	Ending stocks 2/	Total use 3/	Commercial	USDA 4/	Total 5/	Nonfood use 6/	Military, including relief	USDA donations	Total	Per capita
	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Lb.
1927	2,218	5	---	---	1,497	1,453	2,257	---	---	27	2,096	---	---	144	67.6
1928	2,261	1	---	---	1,453	1,443	2,272	---	---	38	2,082	---	---	152	70.5
1929	2,135	8/	---	---	1,443	1,398	2,180	---	---	45	1,980	---	---	155	71.1
1930	1,757	2	---	---	1,398	1,154	2,003	---	---	14	1,844	---	---	145	65.9
1931	2,230	1	---	---	1,154	1,571	1,814	---	---	8	1,671	---	---	135	60.8
1932	2,579	8/	---	---	1,571	1,882	2,268	---	---	12	2,125	---	---	131	58.9
1933	2,105	8/	---	---	1,882	1,551	2,436	---	---	11	2,290	---	---	135	60.2
1934	1,147	3	---	---	1,551	872	1,829	---	---	7	1,695	---	---	127	56.3
1935	2,001	43	---	---	872	1,408	1,508	---	---	3	1,389	---	---	116	51.1
1936	1,259	31	---	---	1,408	826	1,872	---	---	4	1,744	---	---	124	54.2
1937	2,349	86	---	---	826	1,707	1,554	---	---	10	1,426	---	---	118	51.2
1938	2,300	8/	---	---	1,707	1,868	2,139	---	---	156	1,864	---	---	119	51.2
1939	2,342	8/	---	---	1,868	2,041	2,169	---	---	42	2,006	---	---	121	51.6
1940	2,207	2	1,757	284	2,041	2,030	2,220	---	---	51	2,047	---	---	122	51.6
1941	2,414	1	1,557	473	2,030	2,182	2,263	---	---	32	2,094	2	---	135	57.4
1942	2,802	1	1,806	376	2,182	2,284	2,701	---	---	18	2,525	4	---	154	65.7
1943	2,668	8/	2,381	203	2,284	1,945	3,007	---	---	12	2,837	10	---	148	64.4
1944	2,802	9	1,943	43	1,986	2,123	2,674	---	---	16	2,503	12	---	143	62.3
1945	2,577	1	2,121	2	2,123	1,892	2,809	---	---	21	2,629	12	---	147	63.6
1946	2,916	1	1,892	0	1,892	2,184	2,625	---	---	28	2,441	9	---	147	58.8
1947	2,108	1	2,184	0	2,184	1,535	2,758	---	---	106	2,467	35	---	150	58.8
1948	3,307	1	1,535	0	1,535	2,573	2,270	---	---	26	2,111	6	---	127	49.0
1949	2,946	1	2,488	85	2,573	2,684	2,836	---	---	117	2,565	22	---	132	49.9
1950	2,764	1	2,200	484	2,684	2,613	2,836	72	31	103	2,596	2	---	135	50.5
1951	2,629	1	2,098	515	2,613	2,366	2,877	94	15	109	2,633	3	---	132	49.0
1952	2,981	1	1,933	433	2,366	2,562	2,786	96	10	106	2,547	3	---	130	47.5
1953	2,882	1	2,117	445	2,562	2,686	2,759	120	18	138	2,489	3	---	129	46.2
1954	2,708	1	1,965	721	2,686	2,849	2,546	55	31	86	2,329	3	---	128	44.9
1955	2,873	1	2,230	819	2,849	3,074	2,649	52	67	119	2,397	2	---	131	45.2
1956	3,075	1	2,019	1,055	3,074	3,408	2,742	77	53	130	2,476	2	8/	134	45.2
1957	3,045	1	2,048	1,360	3,408	3,594	2,860	51	147	198	2,527	2	4	133	44.2
1958	3,356	2	2,265	1,329	3,594	3,868	3,084	93	105	198	2,745	2	5	139	45.5
1959	3,825	1	2,487	1,381	3,868	4,344	3,350	178	59	237	2,967	2	5	144	46.3
1960	3,908	1	2,852	1,492	4,344	4,687	3,566	211	30	241	3,177	2	4	146	45.8
1961	3,665	1	2,873	1,814	4,687	4,495	3,819	218	92	310	3,358	2	6	149	46.0
1962	3,637	1	2,842	1,653	4,495	4,217	3,916	343	105	448	3,309	2	6	157	47.8
1963 9/	4,092	1	2,722	1,495	4,217	4,384	3,926	391	68	459	3,297	2	5	168	50.5

1/ Stocks under loan and owned by CCC. Comparable data not available prior to 1940. 2/ Total farm, terminal market, and government-owned stocks, 1927-43. Beginning 1944 figures also include interior mill, elevator, and warehouse stocks, data for which were not available prior to 1943. 3/ Production plus imports and beginning stocks, less ending stocks. 4/ Includes exports under the P.L. 480 and AID programs and sales under the payment-in-kind program. Comparable data not available prior to 1950. 5/ Includes grain and grain equivalent of products. Includes estimate of shipments to Territories through 1959. 6/ Residual; includes feed, seed, alcohol, industrial uses, and waste. 7/ Grain equivalent of corn products consumed; civilian only, 1941 to date. Excludes corn and corn products used in alcoholic beverages. 8/ Less than 500,000 bushels. 9/ Preliminary.

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Table 41.--Oats: Supply and utilization, 1927-63

Calendar year	Supply						Utilization							
			Beginning stocks				Exports (grain and oatmeal)			Domestic disappearance				
											Food use			
												Civilian 6/		
	Production	Imports (grain and oatmeal)	Commercial	USDA 1/	Total 2/	Ending stocks 2/	Total use 3/	Commercial	USDA 4/	Total	Nonfood use 5/	Military including relief	USDA donations	Total	Per capita
	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Lb.
1927	1,093	7/	---	---	734	650	1,177	---	---	14	1,120	---	---	43	11.6
1928	1,313	7/	---	---	650	778	1,165	---	---	16	1,130	---	---	39	10.3
1929	1,113	7/	---	---	778	671	1,220	---	---	11	1,174	---	---	35	9.3
1930	1,075	7/	---	---	671	773	1,173	---	---	4	1,128	---	---	41	10.6
1931	1,124	7/	---	---	773	673	1,225	---	---	5	1,176	---	---	44	11.3
1932	1,251	7/	---	---	673	794	1,134	---	---	5	1,089	---	---	40	10.2
1933	736	7/	---	---	794	506	1,304	---	---	3	966	---	---	35	8.8
1934	544	6	---	---	506	369	887	---	---	1	654	---	---	32	8.0
1935	1,310	10	---	---	369	821	768	---	---	2	737	---	---	29	7.2
1936	793	7/	---	---	821	522	1,092	---	---	2	1,062	---	---	28	7.0
1937	1,177	7/	---	---	522	734	965	---	---	8	930	---	---	27	6.7
1938	1,059	7/	---	---	734	724	1,039	---	---	10	1,061	---	---	28	6.8
1939	900	4	---	---	724	615	1,071	---	---	2	1,041	---	---	28	6.9
1940	1,246	10	---	---	615	808	1,071	---	---	1	1,041	---	---	29	7.1
1941	1,183	9	---	---	808	760	1,231	---	---	4	1,197	1	---	29	7.1
1942	1,343	10	---	---	760	884	1,229	---	---	4	1,189	1	---	35	8.6
1943	1,140	61	---	---	884	719	1,386	---	---	4	1,337	4	---	41	10.1
1944	1,149	84	---	---	751	784	1,200	---	---	4	1,160	5	---	31	7.8
1945	1,524	56	---	---	784	1,069	1,305	---	---	9	1,254	6	---	36	8.8
1946	1,478	4	---	---	1,069	985	1,616	---	---	29	1,548	6	---	33	7.7
1947	1,176	1	---	---	985	770	1,332	---	---	12	1,280	9	---	31	6.9
1948	1,450	13	---	---	770	953	1,280	---	---	18	1,225	6	---	31	6.7
1949	1,280	17	938	15	953	826	1,364	---	---	25	1,306	2	---	31	6.7
1950	1,369	20	782	44	826	901	1,294	5	7/	5	1,257	1	---	31	6.7
1951	1,478	52	894	27	921	890	1,361	3	3	6	1,322	1	---	32	6.8
1952	1,217	65	873	18	890	838	1,337	3	1	4	1,300	1	---	32	6.8
1953	1,153	89	827	18	838	808	1,272	5	7/	5	1,233	1	---	33	6.8
1954	1,410	34	756	52	808	967	1,285	1	3	4	1,247	1	---	33	6.7
1955	1,496	10	879	88	967	1,039	1,434	2	25	27	1,372	1	---	34	6.8
1956	1,151	7	946	93	1,039	788	1,409	9	25	34	1,338	1	---	36	6.9
1957	1,290	27	721	67	788	925	1,180	3	19	22	1,120	1	---	37	7.1
1958	1,491	11	860	65	925	1,039	1,298	5	22	27	1,231	1	---	39	7.2
1959	1,052	3	940	99	1,039	766	1,327	40	8	48	1,238	1	---	40	7.3
1960	1,155	1	709	57	766	852	1,070	34	1	35	994	1	---	40	7.2
1961	1,011	1	806	46	852	775	1,089	19	1	20	1,027	1	---	41	7.3
1962	1,020	2	728	47	775	770	1,027	29	1	30	955	1	---	41	7.2
1963 8/	970	5	722	48	770	773	961	10	1	11	927	1	---	42	7.2

1/ Stocks under loan and owned by CCC. Comparable data not available prior to 1949. 2/ Total farm and terminal market stocks, 1927-43. Beginning 1944 figures also include interior mill, elevator and warehouse stocks, data which were not available prior to 1943. 3/ Total supply less ending stocks. 4/ Includes exports under the P.L. 480 and A.I.D. programs, and sales under the payment-in-kind program. Comparable data not available prior to 1955. 5/ Residual; includes feed, seed, and waste. 6/ Grain equivalent basis; principally oatmeal. Includes an allowance for ready-to-eat oat cereals and oats used in infant foods. 7/ Less than 500,000 bushels. 8/ Preliminary.

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Table [illegible].--Barley: Supply and utilization, 1934-63

Calendar year	Supply						Utilization								
			Beginning stocks					Exports (grain and malt)			Domestic disappearance				
											Food use				
													Civilian 6/		
	Production	Imports (grain and malt)	Commercial	USDA 1/	Total 2/	Ending stocks 3/	Total use 3/	Commercial	USDA 4/	Total	Nonfood use 5/	Military including relief	USDA donations	Total	Per capita
	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Mil. bu.	Lb.
1934	117	19	---	---	34	55	158	---	---	6	145	---	---	7	2.8
1935	139	13	---	---	55	104	173	---	---	8	160	---	---	5	2.0
1936	148	19	---	---	104	73	275	---	---	8	262	---	---	5	1.9
1937	178	20	---	---	73	98	217	---	---	12	200	---	---	5	1.8
1938	257	3	---	---	98	152	206	---	---	15	187	---	---	4	1.7
1939	278	3	---	---	152	153	280	---	---	6	270	---	---	4	1.4
1940	311	3	---	---	153	180	287	---	---	3	280	---	---	4	1.5
1941	363	2	---	---	180	205	340	---	---	3	332	---	---	5	1.7
1942	439	7	---	---	205	245	396	---	---	2	389	---	---	5	1.9
1943	383	46	---	---	245	172	442	---	---	3	432	1	---	6	2.4
1944	376	43	---	---	217	213	322	---	---	4	312	1	---	5	2.0
1945	367	14	---	---	213	192	306	---	---	8	291	1	---	6	2.1
1946	269	[illegible]	---	---	192	176	286	---	---	7	270	1	---	8	2.9
1947	288	1/	---	---	176	188	270	---	---	9	229	24	---	8	2.6
1948	316	7	---	---	188	230	281	---	---	8	256	11	---	6	2.1
1949	287	15	139	31	230	191	291	---	---	15	254	16	---	6	2.1
1950	304	16	135	56	191	244	267	7	7	14	241	6	---	6	2.0
1951	297	15	138	56	244	204	312	23	13	36	262	8	---	6	1.9
1952	228	19	179	25	204	164	287	22	11	33	240	8	---	6	1.9
1953	247	37	155	9	164	179	269	12	4	16	241	6	---	6	1.7
1954	379	30	142	37	179	285	303	9	15	24	272	2	---	5	1.6
1955	403	21	179	106	285	307	402	9	67	76	321	7/	---	5	1.5
1956	377	32	155	112	307	292	424	17	70	87	332	7/	---	5	1.5
1957	443	24	196	96	292	361	398	16	45	61	332	7/	---	5	1.4
1958	477	19	200	161	361	396	461	46	79	125	331	7/	---	5	1.5
1959	422	16	240	156	396	361	473	87	31	118	350	7/	---	5	1.4
1960	431	15	237	124	361	368	449	69	25	94	350	7/	---	5	1.4
1961	396	19	246	112	368	336	437	44	21	65	367	7/	---	5	1.4
1962	436	9	242	94	336	346	435	86	13	99	331	7/	---	5	1.4
1963 8/	403	9	281	65	346	333	428	50	7	57	366	7/	---	5	1.4

1/ Stocks under loan and owned by CCC. Comparable data not available prior to 1949. 2/ Total farm and terminal market stocks, 1934-43. Beginning 1944, includes interior mill, elevator, and warehouse stocks, data which were not available prior to 1943. 3/ Total supply less ending stocks. 4/ Includes exports under the P.L. 480 and A I D programs, and sales under the payment-in-kind program. Comparable data not available prior to 1950. 5/ Residual; includes feed, seed, alcohol, industrial uses, and waste. 6/ Excludes quantities used in alcoholic beverages. Includes malt used for food products (excluding malt liquors) and grain equivalent of pearl barley. 7/ Less than 500,000 bushels. 8/ Preliminary.

the industry and data published in Barley and Barley Malt: Abstracts and References (55). Estimates for 1943-47 were based on reports of the Beverage Division, Special Commodities Branch, PMA (57).

Production of pear. barley has not been included in Census reports in recent years. Based on unofficial data, it is estimated that 1 to 2 million bushels of barley were used for pearling in most of the period covered. The total quantity of barley products used for human food was derived by addition of the estimated quantities of pearl barley (expressed in malt equivalent), meal, flour, and malt.

Sugars and Other Sweeteners

Cane and Beet Sugar

Substantial imports and inshipments supplement U.S. production of cane and beet sugars. The production data given in table 83 represent the quantity of sugar obtained from mainland beets and cane during the harvesting years, 1909-34. The harvesting period for mainland cane is October-April, and for mainland beet, July-January. For this period, production data were derived by means of ratios of raw sugar to sugarcane and sugar beets. Beginning with 1935, data are on a calendar-year basis. For 1935-38, deliveries by mainland cane mills are used for cane sugars. Data on beet sugar were based on reports by beet-sugar processors. Data on stocks, receipts, production, and distribution have been collected by the Sugar Division of USDA since 1934. Beginning with 1939, production reports were received from mainland cane mills.

Annual reports of Foreign Commerce and Navigation of the United States (74) were the source of import and inshipment data from 1909-34, and of export data till 1941. The Sugar Division of USDA estimated imports and inshipments from 1935 to date, and exports and shipments to Territories from 1942 to date. Import data are obtained from records received from importers. Export data are based on reports of deliveries made by primary distributors.

Data on stocks of cane sugar for 1909 through 1933 were taken from the Weekly Statistical Sugar Trade Journal (104). Stocks of beet sugar for 1909 through 1913 were estimated from production data of USDA and from the delivery figures of Willet and Gray. Data on stocks of beet sugar from 1914 through 1933 were estimated by the Meinrath Brokerage Company. Stock data (described as visible stocks) include holdings of the principal groups of primary distributors, but exclude substantial supplies in the hands of other distributors and users. For 1934 to date, information on stock was based on reports made to the Sugar Division by primary distributors.

Net change in holdings of wholesalers, retailers, and industrial users (so-called "invisible" stocks) was estimated by the Sugar Division on the basis of a sample of these groups from 1938 to mid-1942, and from 1948 to mid-1951. From 1942 to 1947 when sugar was rationed, no USDA reports were obtained on stocks held by secondary distributors and industrial consumers. However, based on information from the sugar-rationing authorities in the Office of Price Administration and from the trade, annual changes in these stocks were assumed to be relatively minor. Data from 1951 to date are estimated by the Bureau of the Census on the basis of a statistical sample of secondary distributors and users.

Beginning in 1947, the balancing item shown in table 83 reconciles quantities delivered for consumption in the United States as reported by primary distributors and those derived from total supply minus exports, livestock feed, and ending visible stocks.

Sugar is the only major food commodity for which available data are considered an inadequate measure of the total amount of sugar used by military personnel. Data on substantial quantities purchased in commissaries and post exchanges in the form of candy, ice cream, soft drinks, and other such items are not available. Therefore, beginning in 1947, military and civilian uses of sugar were combined and per capita consumption derived for the total population. Military use of sugar in 1941-46 was large enough

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Table 82.--Sugar, cane and beet, raw value: Supply and utilization, 1909-63

Year	Supply						Utilization										
		Receipts from offshore 2/					Exports and shipments						Domestic disappearance				
	Production 1/	Foreign	Territories	Total	Visible beginning stocks 3/	Total supply	Total use 4/	Commercial 5/	USDA net purchases for export	Total	Net change in invisible stocks 6/	Balancing item 7/	Livestock feed	Military 8/	Food use: Civilian 9/ USDA donations	Food use: Civilian 9/ Total	Food use: Civilian 9/ Per capita (refined 10/)
	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Thou. tons	Lb.
1909	880	1,899	785	2,684	526	4,090	3,621	51	---	51	---	---	---	---	---	3,570	73.7
1910	901	2,476	518	2,894	469	4,264	3,819	91	---	91	---	---	---	---	---	3,728	75.4
1911	1,002	2,461	496	2,957	445	4,404	3,912	26	---	26	---	---	---	---	---	3,886	77.4
1912	904	2,155	922	3,077	492	4,473	3,921	53	---	53	---	---	---	---	---	3,868	75.9
1913	1,085	2,373	914	3,287	552	4,924	4,266	39	---	39	---	---	---	---	---	4,227	81.3
1914	1,019	2,692	927	3,619	658	5,296	4,915	221	---	221	---	---	---	---	---	4,294	81.0
1915	1,074	2,620	951	3,571	781	5,426	4,699	528	---	528	---	---	---	---	---	4,171	77.6
1916	1,189	2,765	1,035	3,800	727	5,716	5,049	856	---	856	---	---	---	---	---	4,193	76.8
1917	1,065	2,464	1,099	3,563	667	5,295	4,866	550	---	550	---	---	---	---	---	4,316	78.0
1918	1,099	2,576	907	3,483	429	5,011	4,399	223	---	223	---	---	---	---	---	4,176	74.6
1919	902	3,497	944	4,441	612	6,955	5,664	796	---	796	---	---	---	---	---	4,868	86.6
1920	1,345	3,873	964	4,837	291	6,473	5,375	502	---	502	---	---	---	---	---	4,873	85.5
1921	1,425	2,961	1,011	3,972	1,098	6,495	5,582	513	---	513	---	---	---	---	---	5,069	87.3
1922	1,024	4,851	929	5,780	913	7,717	7,147	998	---	998	---	---	---	---	---	6,149	104.4
1923	1,111	3,829	862	4,691	370	6,372	5,675	250	---	250	---	---	---	---	---	5,425	90.5
1924	1,256	4,172	1,070	5,242	697	7,195	6,320	244	---	244	---	---	---	---	---	6,076	99.5
1925	1,119	4,435	1,356	5,791	875	7,785	6,875	415	---	415	---	---	---	---	---	6,460	104.3
1926	1,008	4,529	1,307	5,836	910	7,754	6,682	121	---	121	---	---	---	---	---	6,561	104.5
1927	1,242	4,241	1,352	5,593	1,072	7,907	6,662	140	---	140	---	---	---	---	---	6,522	102.4
1928	1,271	3,912	1,554	5,466	1,245	7,982	6,825	137	---	137	---	---	---	---	---	6,688	103.7
1929	1,307	4,388	1,393	5,781	1,257	8,245	6,432	115	---	115	---	---	---	---	---	6,317	96.9
1930	1,508	3,894	1,681	5,575	1,813	8,896	7,311	90	---	90	---	---	---	---	---	7,221	109.6
1931	1,421	3,260	1,731	4,991	1,585	7,997	6,730	61	---	61	---	---	---	---	---	6,669	100.5
1932	1,717	2,873	1,922	4,795	1,267	7,779	6,378	57	---	57	---	---	---	---	---	6,321	94.7
1933	2,007	2,836	1,787	4,623	1,401	8,031	6,351	58	---	58	---	---	---	---	---	6,293	93.7
1934	1,508	3,200	1,802	5,002	2,149	8,659	6,481	145	---	145	---	---	---	---	---	6,336	93.7
1935	1,633	2,763	1,815	4,578	2,178	8,389	6,804	132	---	132	14	---	---	---	---	6,658	97.8
1936	1,807	2,999	1,868	4,867	1,585	8,259	6,769	86	---	86	15	---	---	---	---	6,668	97.3
1937	1,821	3,280	1,883	5,163	1,490	8,174	6,744	93	---	93	8	---	---	---	---	6,643	96.4
1938	2,207	3,073	1,810	4,883	1,730	8,820	6,708	78	---	78	19	---	---	---	---	6,611	95.2
1939	2,321	2,975	1,872	4,847	2,305	9,473	7,013	153	---	153	-201	---	---	---	---	7,061	100.8
1940	2,104	3,006	1,855	4,861	2,615	9,580	7,224	193	---	193	266	---	---	---	---	6,765	95.7
1941	2,090	3,997	1,452	5,849	2,356	10,295	8,146	91	---	91	606	---	---	95	---	7,354	104.3
1942	2,151	1,928	1,607	3,535	2,149	7,835	5,697	55	184	239	-718	---	---	424	---	5,752	81.8
1943	1,531	3,431	1,510	4,941	2,138	8,610	6,845	18	474	492	55	---	---	730	---	5,568	80.7
1944	1,510	3,930	1,547	5,477	1,765	8,752	7,525	24	317	341	14	---	---	1,014	---	6,156	89.5
1945	1,666	3,227	1,647	4,874	1,227	7,767	6,349	34	11/175	209	-61	---	---	12/1,094	---	5,107	73.9
1946	1,901	2,697	1,504	4,201	1,418	7,520	6,068	258	11/139	397	-8	---	---	12/119	---	5,560	75.1
1947	2,161	4,217	1,612	6,029	1,452	9,642	7,704	232	---	232	68	24	---	13/	---	14/7,331	95.1
1948	1,921	3,320	1,733	5,053	1,938	8,912	7,416	77	---	77	-39	-4	---	13/	---	7,382	94.1
1949	2,115	3,809	1,893	5,702	1,496	9,313	7,554	44	---	44	-113	-70	---	13/	---	7,693	96.4
1950	2,466	3,783	2,173	5,956	1,759	10,181	8,342	60	---	60	114	3	---	---	---	8,165	100.6
1951	2,042	3,725	1,918	5,643	1,839	9,524	7,761	82	---	82	-27	-58	---	---	---	7,764	94.0
1952	2,105	3,898	2,004	5,902	1,763	9,770	8,153	29	---	29	-52	20	---	---	---	8,156	97.1
1953	2,373	3,883	2,249	6,132	1,617	10,122	8,483	32	---	32	186	-34	---	---	---	8,299	97.2
1954	2,611	3,799	2,096	5,895	1,639	10,145	8,212	20	---	20	-95	-24	9	---	---	8,302	95.6
1955	2,387	4,027	2,155	6,182	1,933	10,502	8,492	34	8	42	-117	32	19	---	---	8,516	96.3
1956	2,511	4,257	2,249	6,506	2,010	11,027	9,122	44	100	144	101	55	19	---	---	8,803	97.8
1957	2,560	4,277	1,947	6,224	1,905	10,689	8,809	30	---	30	26	38	7	---	---	8,708	95.0
1958	2,815	4,891	1,459	6,350	1,880	11,045	9,167	60	---	60	13	44	33	---	---	9,017	96.8
1959	2,822	4,674	1,947	6,621	1,878	11,321	9,316	57	---	57	46	44	34	---	---	9,135	96.4
1960	4,012	4,885	903	5,788	2,083	11,883	9,434	46	---	46	-129	59	24	---	---	9,434	97.6
1961	4,268	4,407	996	5,403	2,449	12,120	9,801	55	---	55	42	60	32	---	---	9,612	97.7
1962	4,399	4,682	915	5,597	2,319	12,315	9,938	66	---	66	89	43	31	---	---	9,709	97.2
1963 15/	4,870	4,594	891	5,485	2,377	12,732	10,099	30	---	30	289	32	7	---	---	9,741	96.1

1/ Crop-year production data, 1909-34; calendar-year data beginning 1935. 2/ 1909-34, data from U. S. Department of Commerce, Foreign Commerce and Navigation; 1935 to date from Sugar Division, ASCS. 3/ Cane sugar stocks: 1909-33, Willett and Gray Weekly Statistical Sugar Trade Journal; beet sugar: 1909-13, estimates from Department of Agriculture production figures and Willett and Gray deliveries statistics; 1914-33 from Meinrath Brokerage Co.; 1934 to date stocks from Sugar Division, ASCS, Department of Agriculture. Beginning 1939 includes mainland cane sugar stocks, and beginning 1940 includes raw sugar for processing held by importers other than refiners. Visible stocks are the holdings of primary distributors. 4/ Total supply less ending stocks. Points at which stock levels change because of different source of information are noted (see footnote 3). 5/ 1909-41, data from U. S. Department of Commerce, Foreign Commerce and Navigation; 1942 to date, quantities deliveries for export as compiled by Sugar Division, ASCS. 6/ Beginning 1935 adjustment was made for changes in stocks held by wholesalers, retailers, and industrial users. Data for 1935 through 1951 were rough approximations; since 1951 based on Bureau of the Census sample survey. 7/ Differences between deliveries for consumption by primary distributors and the residual resulting from total supply less exports, livestock feed and ending visible stocks. 8/ Military purchases exclude sugar in processed products. 9/ Civilian consumption only during 1941-46. 10/ Raw sugar converted to refined basis using factor of 0.934579. 11/ Excludes 75,000 short tons passing through U. S. but not reported as imports in 1945, and 11,000 short tons shipped directly from Cuba in 1946. 12/ Includes 149,000 short tons shipped commercially for civilian feeding, but does not include purchase abroad of about 133,000 short tons not entering into domestic supplies in 1945; 1946 includes 4,000 short tons for civilian feeding. 13/ Adequate data not available; military use combined with civilian. 14/ Excludes 49,000 short tons for civilian feeding by military in occupied areas abroad. 15/ Preliminary.

to warrant its subtraction from civilian use, despite the limited data.

Coffee, Tea, and Cocoa

Cocoa and tea are not produced commercially in the United States. Coffee is produced in Hawaii, but not in sufficient amounts to supply even the needs of that State. Consequently, foreign imports supply U. S. needs for cocoa and tea and virtually all its coffee.

Through 1946, data on foreign and territorial trade of these commodities were obtained from Foreign Commerce and Navigation of the United States (74). Since 1946, these data have been obtained from monthly balance sheets prepared by the Bureau of the Census.

Annual total U. S. consumption of coffee, tea, and cocoa is calculated by deducting year-end stocks, commercial exports and shipments to U. S. Territories, and military use of these commodities from the total supply (tables 84-86). Total supply consists of imports, shipments from U. S. Territories, beginning stocks, and, in the case of coffee, domestic production. The remaining civilian disappearance is divided by civilian population to obtain per capita consumption.

Data for tea are reported on a leaf basis. However, all products of coffee and cocoa beans are converted to bean equivalent as a common unit of measurement.

Coffee

Sources for data on stocks of green coffee are as follows: 1910-19, Baldie Directoria de Industria e Commercia Sao Paulo; 1920-36, the Brazilian Review (5); 1937-40, reports from New York Coffee and Sugar Exchange; 1941 and 1948, estimates made by the Bureau of Foreign and Domestic Commerce, U.S. Department of Commerce; 1942-47, 1949-52, and 1954 to date, published estimates based on a probability sample of roasters, importers, and other holders of green coffee made by the Bureau of the Census; and 1953 estimates based on trade data. Previously published stock figures for 1948-62 have been adjusted to exclude roasted holdings. Data upon which to base estimates of roasted holdings in subsequent years are not available, so adjustment was made in earlier data for comparability. Absence of data on roasted holdings may explain some of the recent swings in estimates of consumption since roaster, wholesaler, and retail holdings are believed to fluctuate significantly.

U.S. foreign trade in coffee includes roasted and instant coffee in addition to coffee beans. Roasted coffee is converted to a bean-equivalent basis by multiplying by a factor of 1.19. Instant coffee was converted to a bean-equivalent basis by multiplying by 3.60 through 1961, 3.30 for 1962, and 3.00 for 1963. The changing factor for instant coffee, which conforms with trade practice, results from increased efficiency in processing.

Tea

Tea stocks in the United States for 1936-43 and 1945-57 were reported by the Tea Bureau, Inc. (69). These data included stocks held by qualified distributors, importers, packers, jobbers, wholesale grocers, and chain grocers (excluding retail-store inventories). No information on stocks was available prior to 1936. Stocks for 1935, 1944, and 1958 to date are USDA estimates based on trade information.

Cocoa

No data on cocoa stocks were available prior to 1918. From 1918-24, data were obtained from The Tea and Coffee Trade Journal (68). The New York Cocoa Exchange supplied cocoa stock data for 1925-40 and 1946-52. These data covered stocks of cocoa beans held by importers and primary distributors in warehouses licensed by the Exchange. Between 1941 and 1945, stock information was reported to USDA by a committee of representatives of the cocoa industry. These data included cocoa bean holdings by major confectionery manufacturers. Since 1952, stocks have been computed by USDA on the basis of grinding and foreign trade data published by the U.S. Department of Commerce.

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Table ...--Coffee: Supply and utilization, 1910-63 1/

Year	Supply					Utilization							
			Beginning stocks				Exports and shipments			Domestic disappearance for food			
	Production	Imports and inshipments	Commercial 2/	USDA	Total	Total supply	Total use 3/	Commercial	USDA 4/	Total	Military	USDA donations	Civilian Total	Civilian Per capita 5/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1910	---	690	460	---	460	1,150	851	4	---	4	---	---	848	9.2
1911	---	799	309	---	309	1,108	787	3	---	3	---	---	784	8.3
1912	---	960	321	---	321	1,281	1,035	4	---	4	---	---	1,031	10.8
1913	---	849	276	---	276	1,125	876	4	---	4	---	---	872	9.0
1914	---	984	199	---	199	1,183	919	5	---	5	---	---	914	9.2
1915	---	1,141	264	---	264	1,405	1,071	7	---	7	---	---	1,064	10.6
1916	---	1,135	332	---	332	1,467	1,177	6	---	6	---	---	1,171	11.5
1917	---	1,119	290	---	290	1,409	1,258	6	---	6	---	---	1,252	12.1
1918	---	1,[illegible]	251	---	251	1,[illegible]71	1,061	10	---	10	---	---	1,051	10.0
1919	---	1,[illegible]56	210	---	210	1,466	1,254	13	---	13	---	---	1,241	11.8
1920	---	1,[illegible]51	1[illegible]	---	1[illegible]	1,463	1,251	6	---	6	---	---	1,245	11.7
1921	---	1,[illegible]39	1[illegible]	---	1[illegible]	1,[illegible]22	1,309	5	---	5	---	---	1,304	12.0
1922	---	1,[illegible]3[illegible]	2[illegible]	---	2[illegible]	1,[illegible]43	1,306	10	---	10	---	---	1,296	11.8
1923	---	1,[illegible]90	1[illegible]9	---	1[illegible]9	1,[illegible]49	1,425	10	---	10	---	---	1,415	12.6
1924	---	[illegible],390	9[illegible]	---	9[illegible]	1,[illegible]9[illegible]	1,409	14	---	14	---	---	1,395	12.2
1925	---	1,[illegible]73	8[illegible]	---	8[illegible]	1,[illegible]39	1,239	14	---	14	---	---	1,225	10.6
1926	---	1,[illegible]84	117	---	117	1,[illegible]01	1,[illegible]72	16	---	16	---	---	1,456	12.4
1927	---	1,[illegible]40	1[illegible]9	---	1[illegible]9	1,[illegible]59	1,[illegible]58	10	---	10	---	---	1,448	12.2
1928	---	1,[illegible]61	101	---	101	1,[illegible]62	1,449	10	---	10	---	---	1,439	11.9
1929	---	1,[illegible]60	1[illegible]4	---	1[illegible]3	1,[illegible]53	1,491	10	---	10	---	---	1,481	12.2
1930	---	1,[illegible]91	9[illegible]	---	9[illegible]	1,[illegible]84	1,560	20	---	20	---	---	1,540	12.5
1931	---	1,[illegible]47	1[illegible]3	---	1[illegible]3	1,660	1,620	8	---	8	---	---	1,612	13.0
1932	---	1,[illegible]91	1[illegible]9	---	1[illegible]9	1,[illegible]41	1,[illegible]39	6	---	6	---	---	1,553	12.4
1933	---	1,[illegible]90	1[illegible]2	---	1[illegible]2	1,[illegible]78	1,010	7	---	7	---	---	1,603	12.8
1934	---	1,[illegible]61	1[illegible]2	---	1[illegible]2	1,[illegible]64	1,[illegible]55	9	---	9	---	---	1,559	12.3
1935	---	1,[illegible]72	9[illegible]	---	9[illegible]	1,847	1,717	8	---	8	---	---	1,709	13.4
1936	---	1,[illegible]40	1[illegible]0	---	1[illegible]0	1,[illegible]70	1,769	9	---	9	---	---	1,760	13.7
1937	---	1,[illegible]99	1[illegible]1	---	1[illegible]1	1,[illegible]00	1,[illegible]72	8	---	8	---	---	1,714	13.3
1938	---	1,[illegible]65	7[illegible]	---	7[illegible]	1,[illegible]63	1,942	8	---	8	---	---	1,934	14.9
1939	---	1,[illegible]08	1[illegible]1	---	1[illegible]1	1,[illegible]19	1,969	14	---	14	---	---	1,955	14.9
1940	---	[illegible],[illegible]59	1[illegible]1	---	1[illegible]1	[illegible],[illegible]70	2/2,057	8	---	8	---	---	2,049	15.5
1941	---	[illegible],[illegible]56	[illegible]4	---	[illegible]4	[illegible],[illegible]10	[illegible],[illegible]97	11	---	11	48	---	2,098	15.9
1942	---	1,[illegible]70	[illegible]3	---	[illegible]3	[illegible],[illegible]73	[illegible],[illegible]70	7	6/	7	283	---	1,785	13.6
1943	---	[illegible],[illegible]93	1[illegible]3	---	1[illegible]3	[illegible],[illegible]86	1,[illegible]91	3	8	11	245	---	1,669	12.9
1944	---	[illegible],[illegible]03	[illegible]66	---	[illegible]66	[illegible],[illegible]69	[illegible],[illegible]64	4	11	15	414	---	2,035	15.8
1945	---	[illegible],[illegible]34	7/[illegible]05	6/	6[illegible]	3,[illegible]39	[illegible],[illegible]64	9	24	33	611	---	2,120	16.4
1946	---	[illegible],[illegible]62	7/[illegible]44	1	6[illegible]	3,327	[illegible],[illegible]14	22	14	36	2	---	2,776	20.1
1947	---	[illegible],[illegible]66	7/[illegible]13	---	[illegible]13	[illegible],[illegible]79	2/[illegible],[illegible]13	23	6/	23	3	---	2,487	17.4
1948	---	[illegible],[illegible]96	[illegible]7[illegible]	---	[illegible]7[illegible]	3,[illegible]29	[illegible],[illegible]20	22	---	22	24	---	2,676	18.4
1949	---	[illegible],[illegible]08	4[illegible]7	---	4[illegible]7	3,[illegible]15	[illegible],[illegible]71	20	---	20	84	---	2,767	18.7
1950	---	[illegible],[illegible]41	4[illegible]4	---	4[illegible]4	[illegible],[illegible]79	[illegible],[illegible]67	9	---	9	63	---	2,415	16.1
1951	---	[illegible],[illegible]74	[illegible]8[illegible]	---	[illegible]8[illegible]	[illegible],[illegible]61	[illegible],[illegible]96	7	---	7	182	---	2,507	16.6
1952	---	[illegible],[illegible]70	[illegible]6[illegible]	---	[illegible]6[illegible]	[illegible],[illegible]35	[illegible],[illegible]64	10	---	10	69	---	2,585	16.9
1953	---	[illegible],[illegible]73	[illegible]7[illegible]	---	[illegible]7[illegible]	[illegible],[illegible]44	[illegible],[illegible]23	11	---	11	69	---	2,642	16.9
1954	---	[illegible],[illegible]04	[illegible]2[illegible]	---	[illegible]2[illegible]	[illegible],[illegible]66	[illegible],[illegible]97	11	---	11	53	---	2,333	14.7
1955	---	[illegible],[illegible]29	[illegible]69	---	[illegible]69	[illegible],[illegible]41	[illegible],[illegible]52	12	---	12	52	---	2,488	15.3
1956	---	[illegible],[illegible]84	[illegible]89	---	[illegible]89	[illegible],[illegible]73	[illegible],[illegible]70	20	---	20	61	---	2,621	15.8
1957	---	[illegible],[illegible]14	3[illegible]1	---	3[illegible]1	[illegible],[illegible]85	[illegible],[illegible]94	25	---	25	33	---	2,636	15.7
1958	---	[illegible],[illegible]16	3[illegible]1	---	3[illegible]1	3,009	[illegible],[illegible]29	26	---	26	41	---	2,662	15.5
1959	---	[illegible],[illegible]26	2[illegible]0	---	2[illegible]0	3,306	[illegible],[illegible]60	34	---	34	54	---	2,772	15.9
1960	10	[illegible],[illegible]72	4[illegible]6	---	4[illegible]6	3,328	[illegible],[illegible]04	39	---	39	52	---	2,813	15.8
1961	11	[illegible],[illegible]24	4[illegible]4	---	4[illegible]4	3,359	[illegible],[illegible]87	47	---	47	70	---	2,870	15.8
1962	7	[illegible],[illegible]87	3[illegible]2	---	3[illegible]2	3,566	3,042	55	---	55	62	---	2,925	15.9
1963 8/	11	3,[illegible]21	5[illegible]4	---	5[illegible]4	3,656	3,031	56	---	56	49	---	2,926	15.7

1/ Green beans or bean equivalent basis. 2/ Stocks for 1910-19 from Balde Directoria de Industria E Commercia, Sao Paulo; 1920-36, The Brazilian Review; 1937-40, New York Coffee and Sugar Exchange, Inc.; 1941 and 1948, Bureau of Foreign and Domestic Commerce, U. S. Department of Commerce; 1942-47, 1949-52, and 1954 to date, Bureau of Census, U. S. Department of Commerce; 1953 estimate based on trade data. Excludes roasted stocks beginning 1948. 3/ Total supply minus ending stocks. Only in 1941 and 1948 do beginning stocks differ from ending stocks of year previous; adjustments due to change in data source. 4/ Deliveries for export and territorial programs. 5/ Civilian only, 1941 to date. 6/ Less than 0.5 million pounds. 7/ Adjusted to include military stocks transferred to nonmilitary agencies. 8/ Preliminary.

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Table 85.--Tea: Supply and utilization, 1909-63

Year	Supply					Utilization			
	Production	Imports and inshipments 1/	Beginning stocks: Commercial 2/	Beginning stocks: USDA	Beginning stocks: Total	Total supply	Total use 3/	Domestic disappearance for food: Military	Domestic disappearance for food: Civilian: USDA donations	Domestic disappearance for food: Civilian: Total 4/	Domestic disappearance for food: Civilian: Per capita
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	---	103	---	---	---	103	103	---	---	103	1.1
1910	---	95	---	---	---	95	95	---	---	95	1.0
1911	---	102	---	---	---	102	102	---	---	102	1.1
1912	---	98	---	---	---	98	98	---	---	98	1.0
1913	---	88	---	---	---	88	88	---	---	88	.9
1914	---	94	---	---	---	94	94	---	---	94	.9
1915	---	103	---	---	---	103	103	---	---	103	1.0
1916	---	104	---	---	---	104	104	---	---	104	1.0
1917	---	125	---	---	---	125	125	---	---	125	1.2
1918	---	126	---	---	---	126	126	---	---	126	1.2
1919	---	65	---	---	---	65	65	---	---	65	.6
1920	---	88	---	---	---	88	88	---	---	88	.8
1921	---	75	---	---	---	75	75	---	---	75	.7
1922	---	94	---	---	---	94	94	---	---	94	.9
1923	---	102	---	---	---	102	102	---	---	102	.9
1924	---	91	---	---	---	91	91	---	---	91	.8
1925	---	100	---	---	---	100	100	---	---	100	.9
1926	---	95	---	---	---	95	95	---	---	95	.8
1927	---	88	---	---	---	88	88	---	---	88	.7
1928	---	89	---	---	---	89	89	---	---	89	.7
1929	---	88	---	---	---	88	88	---	---	88	.7
1930	---	84	---	---	---	84	84	---	---	84	.7
1931	---	86	---	---	---	86	86	---	---	86	.7
1932	---	94	---	---	---	94	94	---	---	94	.8
1933	---	96	---	---	---	96	96	---	---	96	.8
1934	---	74	---	---	---	74	74	---	---	74	.6
1935	---	85	36	---	36	121	82	---	---	82	.6
1936	---	81	39	---	39	120	82	---	---	82	.6
1937	---	93	38	---	38	131	88	---	---	88	.7
1938	---	81	43	---	43	124	87	---	---	87	.7
1939	---	97	37	---	37	134	92	---	---	92	.7
1940	---	97	42	---	42	139	88	---	---	88	.7
1941	---	102	51	---	51	153	104	---	---	104	.8
1942	---	48	49	---	49	97	75	6	---	69	.5
1943	---	84	22	---	22	106	3/83	14	---	69	.5
1944	---	89	29	---	29	118	3/75	5	---	70	.5
1945	---	83	36	---	36	119	78	7	---	71	.5
1946	---	92	5/41	---	41	133	79	---	---	79	.6
1947	---	61	54	---	54	115	83	---	---	83	.6
1948	---	89	32	---	32	121	84	1	---	83	.6
1949	---	93	37	---	37	130	90	2	---	88	.6
1950	---	115	40	---	40	155	92	1	---	91	.6
1951	---	86	63	---	63	149	101	2	---	99	.7
1952	---	93	48	---	48	141	99	2	---	97	.6
1953	---	108	42	---	42	150	106	1	---	105	.7
1954	---	114	44	---	44	158	111	2	---	109	.7
1955	---	104	47	---	47	151	106	2	---	104	.6
1956	---	100	45	---	45	145	105	2	---	103	.6
1957	---	101	40	---	40	141	104	2	---	102	.6
1958	---	103	37	---	37	140	104	1	---	103	.6
1959	---	108	36	---	36	144	106	2	---	104	.6
1960	---	114	38	---	38	152	108	2	---	106	.6
1961	---	109	44	---	44	153	113	4	---	109	.6
1962	---	129	40	---	40	169	124	2	---	122	.7
1963 6/	---	126	45	---	45	171	127	2	---	125	.7

1/ Imports minus re-exports. 2/ Stocks for 1936-43 and 1945-57 reported by Tea Bureau Inc. Stocks for 1935, 1944, and 1958 to date estimated by U. S. Department of Agriculture. 3/ Total supply minus ending stocks. For 1944 and 1945, beginning stocks differ from ending stocks of year previous because of change in data source. 4/ Civilian only, 1941 to date. 5/ Includes 6 million pounds transferred from military stocks. 6/ Preliminary.

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Table 86.--Cocoa: Supply and utilization, 1909-63 1/

Year	Supply					Utilization							
	Production	Imports and inshipments 2/	Beginning stocks		Total	Total supply	Total use 4/	Exports and shipments			Domestic disappearance for food		
			Commercial 3/	USDA				Commercial 3/	USDA	Total	Military	Civilian	
												USDA donations	Total	Per capita 5/
	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Mil.lb.	Lb.
1909	---	121	---	---	---	121	121	---	---	---	---	---	121	1.3
1910	---	114	---	---	---	114	114	---	---	---	---	---	114	1.2
1911	---	133	---	---	---	133	133	---	---	---	---	---	133	1.4
1912	---	150	---	---	---	150	150	---	---	---	---	---	150	1.6
1913	---	152	---	---	---	152	152	---	---	---	---	---	152	1.6
1914	---	167	---	---	---	167	167	---	---	---	---	---	167	1.7
1915	---	190	---	---	---	190	190	---	---	---	---	---	190	1.9
1916	---	234	---	---	---	234	234	---	---	---	---	---	234	2.3
1917	---	377	---	---	---	377	377	---	---	---	---	---	377	3.6
1918	---	342	---	---	---	342	342	---	---	---	---	---	342	3.3
1919	---	349	50	---	50	399	366	---	---	---	---	---	366	3.5
1920	---	316	33	---	33	349	310	---	---	---	---	---	310	2.9
1921	---	276	39	---	39	315	294	---	---	---	---	---	294	2.7
1922	---	334	21	---	21	355	334	---	---	---	---	---	334	3.0
1923	---	404	21	---	21	425	397	10	---	10	---	---	387	3.5
1924	---	368	28	---	28	396	381	9	---	9	---	---	372	3.3
1925	---	371	15	---	15	386	368	9	---	9	---	---	359	3.1
1926	---	422	18	---	18	440	429	5	---	5	---	---	424	3.6
1927	---	421	11	---	11	432	404	6	---	6	---	---	398	3.3
1928	---	371	28	---	28	399	360	7	---	7	---	---	353	2.9
1929	---	504	39	---	39	543	489	5	---	5	---	---	484	4.0
1930	---	365	54	---	54	419	371	4	---	4	---	---	367	3.0
1931	---	412	48	---	48	460	424	4	---	4	---	---	420	3.4
1932	---	475	36	---	36	511	407	4	---	4	---	---	403	3.2
1933	---	470	104	---	104	574	440	5	---	5	---	---	435	3.5
1934	---	435	134	---	134	569	444	9	---	9	---	---	435	3.4
1935	---	601	125	---	125	726	612	12	---	12	---	---	600	4.7
1936	---	612	114	---	114	726	652	8	---	8	---	---	644	5.0
1937	---	600	74	---	74	674	517	10	---	10	---	---	507	3.9
1938	---	445	157	---	157	602	463	11	---	11	---	---	452	3.5
1939	---	646	139	---	139	785	625	27	---	27	---	---	598	4.6
1940	---	681	160	---	160	841	647	35	---	35	---	---	612	4.6
1941	---	660	548	---	548	1,208	642	22	---	22	---	---	620	4.7
1942	---	226	566	---	566	792	581	7	---	7	47	---	527	4.0
1943	---	580	211	---	211	791	560	4	3	7	150	---	403	3.1
1944	---	692	231	---	231	923	686	10	2	12	277	---	397	3.1
1945	---	637	6/237	---	237	874	668	10	28	38	200	---	430	3.3
1946	---	614	6/ 33	3	36	650	628	33	17	50	12	---	566	4.1
1947	---	601	22	---	22	623	611	17	7/	17	7/	---	594	4.2
1948	---	554	12	---	12	566	559	14	---	14	4	---	541	3.7
1949	---	641	7	---	7	648	608	17	---	17	6	---	585	4.0
1950	---	654	40	---	40	694	684	12	---	12	10	---	662	4.4
1951	---	610	10	---	10	620	605	14	---	14	24	---	567	3.8
1952	---	588	15	---	15	603	597	15	---	15	7	---	575	3.8
1953	---	621	82	---	82	703	618	15	---	15	5	---	598	3.8
1954	---	596	85	---	85	681	551	26	---	26	5	---	520	3.3
1955	---	592	130	---	130	722	542	15	---	15	5	---	522	3.2
1956	---	661	180	---	180	841	621	9	---	9	4	---	608	3.7
1957	---	625	220	---	220	845	656	8	---	8	3	---	645	3.8
1958	---	535	189	---	189	724	578	7	---	7	3	---	568	3.3
1959	---	630	146	---	146	776	624	9	---	9	4	---	611	3.5
1960	---	698	152	---	152	850	646	8	---	8	2	---	636	3.6
1961	---	932	204	---	204	1,136	714	7	---	7	4	---	703	3.9
1962	---	772	422	---	422	1,194	710	9	---	9	4	---	697	3.8
1963 8/	---	766	484	---	484	1,250	734	11	---	11	4	---	719	3.9

1/ Cocoa beans or bean equivalent basis. 2/ Beginning with 1925, revised to reflect foreign trade of cocoa butter and powder products separately. 3/ Stocks for 1909-18 not available; 1918-24 from Tea and Coffee Trade Journal, New York; 1925-40 and 1946-52 from New York Cocoa Exchange reports; 1941-45 from U. S. Department of Agriculture trade surveys; 1953 to date computed by U. S. Department of Agriculture. 4/ Total supply minus ending stocks. Only in 1941, 1946, and 1953 do beginning stocks differ from ending stocks of year previous; Adjustments in 1946 and 1941 were due to changes in data sources; that in 1953 was made by New York Cocoa Exchange. 5/ Civilian only, 1941 to date. 6/ Includes the equivalent of 3 million pounds of cocoa beans transferred from military stocks in 1944 and 6 million pounds in 1945. 7/ Less than 500,000 pounds. 8/ Preliminary.

Conversion to a bean-equivalent basis is much more complicated for cocoa products than for coffee because of the multitude of varying products involved. For example, unsweetened cocoa power contains approximately 88 percent powder and 12 percent fat or cocoa butter; but cocoa butter is 100 percent fat, and chocolate liquor, from which butter and powder are obtained, contains 53 percent butter and 47 percent powder. In previously published data, unsweetened cocoa powder and cocoa butter were converted to bean equivalents by multiplying only the powder by 2.34. The single factor for powder was used to account for trade in both butter and powder. This procedure was adequate until about 1950 when the proportions of butter to powder changed. This method has been revised in the current tables. The import-export data for unsweetened cocoa powder and cocoa butter now are separately converted to bean equivalents. Cocoa powder is converted to bean equivalent by multiplying by 1.18, and cocoa butter by 1.33.

Spices and Herbs

The United States imports most of its spices and herbs. Imports for consumption have been reported by the Department of Commerce in considerable detail on a calendar-year basis since 1918. Imports of all items listed under "spices", as well as for fenugreek seed and crude saffron, were assembled in table 87. Imports for consumption of duty-free items may not equal the quantity consumed in this country because small quantities may be shipped out in unchanged form as exports of foreign merchandise, frequently called re-exports.

On June 18, 1930, many spices became duty-free. From that time, imports for consumption of duty-free items were adjusted by deducting re-exports. However, re-exports were reported in much less detail than imports for consumption. For example, the export category, "spices not elsewhere classified," includes ground cloves, ground ginger root, mace, ground nutmegs, paprika, ground pepper, sage, and tonka beans, for which separate import data are available. Consequently, domestic use of individual spices is overstated by the amounts of these re-exports, and the "other spices" group is understated. Beginning in 1947, imports of "other spices" (miscellaneous spices less re-exports) were negative since re-exports exceeded imports of miscellaneous spices. Since there is no record of shipments of spices from the Territories to the United States, they probably are negligible.

Although limited quantities of condiment plants are grown in this country, production data were available only for mustard seed beginning in 1920 and pepper beginning in 1929. Data on production of mustard were adjusted for seed used in planting the crop the following year by allowing 4 pounds per acre. Since mustard is harvested in the fall and no data on stocks are available, it is assumed that the crop of each year is consumed in the following calendar year. Some mustard is used for pharmaceutical purposes, though the quantities for such use are believed to be small.

Commodities of foreign origin that have undergone processing in this country are reported as exports of domestic merchandise. Exports of all spices combined are available for 1922-42. In 1943-58, ground and unground capsicum, ground and unground cinnamon, ground and unground cassia, unground nutmegs, unground pepper, and vanilla beans were reported separately. From 1959 to date, exports of oriental mustard seed and pepper have been reported separately; but those of other miscellaneous spices have been grouped together. Shipments of spices to the Territories have been reported from 1929 to date, except to Alaska and Hawaii since March 1948.

Apparent domestic consumption of total spices was derived by adding net imports for consumption and production of mustard seed and chili peppers, and subtracting exports and shipments to the Territories (table 88). No satisfactory estimates of military takings could be made, so total domestic use was divided by the total population to derive estimates of civilian consumption per person.

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Table 87.--Spices and herbs: Imports for consumption, 1918-63 1/

Year	Anise seed	Capsicum	Caraway seed	Cassia 2/	Celery seed	Cinnamon	Cloves 3/	Coriander seed	Cummin seed	Fennel seed	Fenugreek seed	Ginger root
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
1918	276	4,801	389	8,111	239	677	5,000	2,298	1,231	161	1,503	4,633
1919	494	3,629	2,014	6,350	768	484	5,473	573	1,182	178	1,118	4,980
1920	426	5,373	1,888	6,918	594	675	5,682	2,136	1,358	238	1,200	7,107
1921	369	5,247	3,441	8,889	426	413	4,734	1,838	1,023	121	169	4,765
1922	489	6,722	4,356	9,283	594	454	5,615	1,658	706	288	706	5,538
1923	718	9,220	1,968	7,484	753	410	7,592	1,435	904	504	814	5,291
1924	280	8,930	4,845	7,426	646	459	4,921	1,980	607	340	819	4,550
1925	388	2,992	4,801	7,506	791	267	6,609	1,446	514	184	932	4,216
1926	353	4/2,570	4,499	9,703	1,099	306	5,760	1,763	556	241	994	4,710
1927	396	1,818	3,941	8,707	662	270	5,458	1,207	336	254	880	3,213
1928	510	2,852	5,000	7,296	732	290	5,079	2,102	574	362	1,089	3,897
1929	528	3,158	5,046	7,519	965	260	3,267	2,098	505	218	1,108	3,815
1930	583	2,150	5,734	9,214	802	916	4,106	1,578	832	244	557	3,906
1931	562	1,039	5,805	7,285	953	795	3,839	1,835	826	293	524	4,980
1932	537	1,112	5,465	7,279	862	319	4,250	1,109	361	216	276	2,951
1933	329	1,343	8,117	9,708	727	339	3,524	2,3	754	164	168	3,622
1934	412	1,669	4,393	9,552	929	-71	4,783	1,7	977	171	241	3,500
1935	491	1,612	6,168	9,838	1,444	276	3,944	1,618	986	311	512	3,405
1936	484	1,446	6,570	10,636	1,273	157	4,528	1,841	945	261	472	3,599
1937	538	1,777	5,808	10,572	1,356	171	3,631	2,558	857	290	162	997
1938	460	1,534	6,438	7,910	1,027	279	4,026	1,669	907	182	465	680
1939	695	1,146	5,251	11,888	1,358	499	4,610	3,123	996	314	1,110	656
1940	566	2,225	3,477	11,237	1,668	298	4,829	2,037	1,693	538	966	3,928
1941	734	5,858	129	13,263	1,425	840	12,914	3,411	7,093	694	205	4,412
1942	506	3,469	831	1,991	3,589	1,397	8,756	1,765	2,359	1,160	707	7,298
1943	1,421	6,304	274	-9	2,674	2,647	1,165	281	293	35	98	1,832
1944	600	4,369	455	4	1,817	3,862	1,921	971	371	199	213	3,347
1945	563	5,887	706	-2	2,052	2,943	10,933	3,477	897	286	1,019	6,091
1946	1,041	8,934	1,691	14,854	769	1,399	4,825	1,966	3,907	804	672	3,587
1947	1,010	2,090	3,320	6,137	908	262	2,514	1,825	2,797	155	858	2,375
1948	1,139	3,263	4,367	6,900	2,065	66	6,073	2,165	2,860	194	1,473	3,436
1949	543	4,383	5,181	11,657	1,841	451	2,214	2,942	4,359	274	1,167	2,851
1950	1,0	,6	6,	13,1	1,		4,0	1,6	1,606	446	1,7	3,7
1951	1,1	,3	4,7	9,9	1,		1,9	,	4,007	398	623	4,846
1952		,8	6,	9,	1,		1,9	1,	,	324	667	3,977
1953		4,9	6,1	1,			1,5	1,4	1,6	527	1,1	3,466
1954		,4	6,1	10,	1,	7/	7/ 3,		,9	6	5/	7/ ,589
1955	6	6,2	7,1	11,9	1,	7/ 1	7/ ,5	7/ 1,9	,1	,1	472	5/ 7/ ,474
1956	1	6,1	6,2	11,2	1,	7/	7/ ,5	7/ ,4	,0	,0	440	5/ 7/ 5,593
1957	8	,3	7,0	11,	,	7/ 1,7	7/ 1,9	7/ ,4	,3	,3	416	5/ 7/ 3,737
1958	4	6,1	6,8	1,	,1	7/ 1,	7/ ,3	1,9	1,	4	8/	8/ 7/ 5,214
1959	6	,1	7,2	14,6	,7	7/	7/ ,1	,7	2,4	4	8/	8/ 7/ 5,5
1960	1	,6	6,9	11,1	,4	7/ 7	7/ ,0	,5	3,4	5	8/	8/ 7/ 3,986
1961		7,6	6,0	1,	,8	7/ 7	7/ 1,7	,4	,6	6	8/	8/ 7/ 3,666
1962	6	8,9	6,9	14,	,1	7/ 1,8	7/ ,7	,6	3,0	4	8/	8/ 7/ 5,381
1963 6/		7,4		13,	,1	7/ 1,4	7/ ,1	,4	,7	6	8/	8/ 7/ 3,974

1/ Imports for consumption of spices and herbs, ground and unground, as reported by the Department of Commerce minus exports of duty-free foreign spices. Negative imports for consumption indicate that more was exported, by drawing down stocks held in the United States, than was imported. 2/ Cassia, cassia buds, and cassia vera. 3/ Includes stems. 4/ Excludes ,000 pounds for diplomatic officers.

Continued -

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Table 87.--Spices and herbs: Imports for consumption, 1918-63 1/ -Continued

Year	Mace	Mustard	Nutmegs	Paprika	Pepper, black and white	Pimento (All-spice)	Poppy seed	Sage	Tonka beans	Turmeric	Vanilla beans	Other spices 5/
	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
1918	310	10,649	3,570	---	31,604	3,640	204	1,292	112	---	846	221
1919	537	15,726	3,521	---	20,326	2,235	1,054	980	100	1,230	1,038	200
1920	534	10,629	4,075	---	22,869	3,664	2,741	2,275	316	1,215	1,193	263
1921	657	8,756	3,088	---	33,325	3,729	4,726	1,412	58	646	968	325
1922	966	16,321	4,784	---	34,619	4,542	5,215	1,758	296	642	1,200	446
1923	738	15,097	3,957	---	26,873	3,619	6,291	1,880	297	793	964	784
1924	734	14,739	3,400	---	28,350	2,405	4,968	2,171	292	1,341	728	357
1925	635	15,387	4,191	4,213	36,012	3,995	3,915	1,691	176	1,115	805	532
1926	706	15,977	3,673	4,301	16,730	3,010	5,177	1,478	376	840	1,154	398
1927	851	24,742	4,139	5,478	28,892	1,805	5,889	1,495	332	786	923	280
1928	678	17,424	4,295	4,982	26,755	2,388	5,975	2,163	210	951	1,304	264
1929	733	19,106	4,188	5,494	24,737	1,873	6,680	1,875	260	838	1,236	305
1930	699	15,081	3,755	5,401	30,072	2,130	6,160	1,417	266	1,637	1,203	276
1931	627	11,475	4,510	4,432	33,231	2,908	7,164	1,574	373	1,444	1,355	289
1932	730	11,109	4,207	4,635	33,401	2,400	6,578	1,551	451	674	1,142	945
1933	728	13,077	4,361	5,740	33,986	2,223	8,205	1,827	382	945	1,179	1,364
1934	775	16,083	4,232	5,990	34,596	2,492	6,412	2,007	660	1,359	1,244	1,369
1935	706	8,797	4,209	6,585	36,600	4,129	8,393	1,446	515	1,169	829	1,150
1936	798	11,203	4,054	7,600	75,686	2,398	6,901	1,629	745	1,400	1,165	1,594
1937	872	18,975	4,861	6,846	33,163	586	7,609	2,034	620	1,309	996	1,334
1938	735	9,922	3,916	4,516	55,508	874	9,649	1,236	619	780	1,025	453
1939	796	11,572	4,984	6,140	67,345	2,742	5,815	1,921	628	674	1,018	506
1940	1,216	6,399	6,214	4,728	15,761	2,607	6,066	886	411	1,705	1,310	1,742
1941	1,206	4,547	8,285	4,718	64,039	3,701	3,290	1,386	672	1,989	1,025	5,572
1942	185	520	3,328	4,035	-1,562	2,055	1,820	2,004	649	3,161	758	3,324
1943	377	703	2,540	2,770	-2,226	2,760	340	1,444	420	387	740	1,066
1944	507	281	5,255	3,730	-1,001	2,111	277	823	463	749	907	3,488
1945	467	1,642	3,130	5,220	2,884	2,479	2,790	1,349	477	848	1,589	2,195
1946	487	7,217	3,592	6,536	10,614	1,779	2,626	1,252	343	2,615	1,268	950
1947	556	9,302	4,284	5,274	39,866	1,522	4,735	1,520	354	637	1,556	-1,554
1948	561	10,218	4,809	6,404	29,801	1,895	6,071	1,454	430	1,382	1,076	-1,484
1949	602	8,766	5,561	6,695	26,166	1,965	6,585	791	419	1,598	1,181	-2,127
1950	792	16,777	6,346	7,052	32,502	2,022	8,197	2,476	470	1,764	2,312	-423
1951	986	26,545	8,101	8,934	23,544	1,578	7,956	1,487	593	1,931	1,281	-805
1952	655	31,333	5,311	8,831	28,046	1,482	7,545	1,483	630	935	1,400	-313
1953	583	23,282	3,900	8,138	29,985	1,506	6,976	1,549	493	1,531	1,662	1,592
1954	676	29,665	7/5,279	7,866	7/37,214	1,915	6,714	1,878	313	1,944	897	7/169
1955	622	34,980	7/5,109	9,280	7/34,978	1,165	7,152	1,893	699	2,621	919	7/-1,627
1956	535	53,140	7/6,294	7,998	7/39,380	1,489	6,373	2,131	217	2,101	1,216	7/-10,330
1957	464	24,389	7/4,300	6,822	7/34,464	1,235	7,701	1,583	154	1,650	1,196	7/-6,325
1958	374	19,168	7/4,703	8,367	7/37,758	1,389	7,141	1,395	472	1,823	1,301	7/863
1959	561	26,016	7/3,904	9,084	7/37,258	1,279	8,594	2,024	311	1,879	1,121	7/911
1960	605	29,323	7/3,670	8,110	7/39,924	1,356	7,220	2,178	590	2,299	1,048	7/1,633
1961	444	44,098	7/3,931	9,632	7/35,147	1,217	6,646	1,864	850	2,603	1,352	7/2,700
1962	565	25,152	7/4,527	9,589	7/39,380	1,431	7,959	2,266	419	3,109	1,579	7/3,405
1963 6/	559	29,713	7/5,125	10,081	7/44,012	1,284	6,747	2,738	196	2,672	1,065	7/8,281

2/ Includes cardamon seed, curry and curry powder products, laurel leaves, marjoram, origanum, crude saffron, thyme, and mixed or spices, n.s.p.f. Excludes exports of foreign duty-free spices, when reported. Exports of foreign spices "not separately provided for" include, if any, ground cloves, ground ginger root, mace, ground nutmegs, paprika, ground pepper, sage, and tonka beans. These could not be deducted from the individual spices. They have been deducted from the "other" category. 6/ Preliminary. 7/ Ground cinnamon, clove stems, ginger root, nutmeg, and pepper included in "other spices." 8/ Data no longer reported.

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Table 88.--Spices and herbs: Supply and utilization, 1918-63

Year	Supply			Utilization				
	Production		Imports for consumption 3/	Total use	Domestic exports	Shipments to Territories 4/	Apparent domestic consumption	
	Mustard seed 1/	Dried chili peppers 2/					Total 5/	Per capita 6/
	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	1,000 lb.	Lb.
1918	7/	7/	81,761	81,761	7/	7/	81,761	0.8
1919	7/	7/	74,190	74,190	7/	7/	74,190	.7
1920	3,283	7/	83,369	86,652	7/	7/	86,652	.8
1921	9,137	7/	88,925	98,062	7/	7/	98,062	.9
1922	844	7/	107,198	108,042	1,363	7/	106,679	1.0
1923	1,038	7/	98,386	99,424	1,843	7/	97,581	.9
1924	2,966	7/	95,288	98,254	1,790	7/	96,464	.8
1925	3,416	7/	103,613	107,029	1,172	7/	105,857	.9
1926	2,758	7/	86,374	89,132	1,081	7/	88,051	.8
1927	4,661	7/	102,754	107,415	1,506	7/	105,909	.9
1928	3,500	7/	97,172	100,672	1,679	7/	98,993	.8
1929	2,445	5,116	95,812	103,373	1,914	87	101,372	.8
1930	3,489	3,608	98,719	105,816	3,068	413	102,335	.8
1931	5,395	1,160	98,118	104,673	1,203	404	103,066	.8
1932	4,621	3,200	92,560	100,381	883	420	99,078	.8
1933	6,965	4,000	105,155	116,120	858	368	114,894	.9
1934	12,689	3,104	105,572	121,365	1,181	365	119,819	.9
1935	10,394	2,902	105,133	118,429	1,276	572	116,581	.9
1936	15,967	3,690	147,385	167,042	1,383	610	165,049	1.3
1937	6,327	5,004	107,921	119,252	1,477	513	117,262	.9
1938	4,263	4,048	114,810	123,121	1,089	703	121,329	.9
1939	18,848	7,240	135,787	161,875	1,430	774	159,671	1.2
1940	9,168	4,240	82,507	95,915	1,779	556	93,580	.7
1941	19,199	5,720	151,408	176,327	3,763	765	171,799	1.3
1942	72,713	7,978	54,105	134,796	2,107	942	131,747	1.0
1943	44,197	4,366	28,336	76,899	3,550	496	72,853	.5
1944	34,216	5,130	35,719	75,065	2,452	469	72,144	.5
1945	29,446	7,296	59,922	96,664	3,208	566	92,890	.7
1946	45,592	17,180	83,728	126,500	7,157	363	118,980	.8
1947	35,634	6,120	92,293	133,447	7,653	479	125,315	.9
1948	20,845	5,500	96,623	122,968	2,660	388	119,920	.8
1949	19,390	8,640	96,065	124,095	1,841	272	121,982	.8
1950	11,036	7,700	121,961	140,697	2,076	224	138,397	.9
1951	17,722	8,160	109,078	134,960	1,957	219	132,784	.9
1952	19,219	7,740	118,233	145,192	1,943	221	143,028	.9
1953	15,483	9,820	120,644	145,947	1,875	275	143,797	.9
1954	7,220	12,800	131,538	151,558	3,248	347	147,963	.9
1955	9,031	7,560	135,533	152,124	9,026	360	142,738	.9
1956	31,789	11,760	150,294	193,843	20,931	327	172,585	1.0
1957	35,421	10,880	113,639	159,940	14,935	347	144,658	.8
1958	12,854	11,200	120,858	144,912	2,823	425	141,664	.8
1959	19,351	16,960	135,169	171,480	4,078	436	166,966	.9
1960	18,920	11,340	137,184	167,444	3,177	548	163,719	.9
1961	23,866	10,140	151,889	185,895	3,638	628	181,629	1.0
1962	15,698	15,320	147,770	178,788	2,818	625	175,345	.9
1963 8/	20,246	12,000	156,403	188,649	2,793	498	185,358	1.0

1/ Preceding year's crop; it is assumed that most of each year's crop was consumed in following calendar year. Excludes quantities used for seed, estimated at 4 pounds per acre planted. 2/ California only. 3/ Imports for consumption of spices reported by the Department of Commerce. See table 87 for details. 4/ Reports of trade with Alaska and Hawaii were discontinued after March 1948. 5/ Imports for consumption plus mustard seed produced in the United States for consumption plus production of dried chili peppers (capsicum) in California minus domestic exports and shipments to U. S. Territories. 6/ Total consumption divided by total population because data on military takings not available. 7/ Not available. 8/ Preliminary.

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CHAPTER 7. SUPPLY AND USE OF FARM COMMODITIES

Up to this point, this report has been concerned primarily with the measurement of food consumption. A brief attempt will be made here to relate total food consumption and production. Most food originates as a farm commodity, but not all farm commodities are used for food. Further, the value of farm commodities that are used for food increases greatly from the time they leave the farm to their sale at retail. These problems complicate measuring either ultimate consumption of farm commodities or initial production of food products.

Supply-Utilization Index

A set of indexes of supply and utilization of farm commodities was developed to identify the major sources of total supply of farm commodities and to distribute them among major end uses (3 and vol. 5 of 89). This system of index numbers is the most inclusive set of statistics that deals with the entire complex of production and use of farm commodities. The food use component of the supply-utilization index was given in table 4 on a per capita basis and compared with the per capita food consumption index in chapter 2.

The supply-utilization index measures changes in quantities of farm commodities. It combines them by using average prices received by farmers in a base period. For example, beginning with 1955, quantities of individual commodities are combined using weighted-average 1957-59 prices received by farmers. Prior to 1955, quantities are weighted using 1947-49 average prices. The 2 periods are "linked" using 1955 data.

Table 89 contains an annual buildup of total use in a given year and an allocation of the total among uses. Table 90 gives changes over time for each component of the balance sheet on a 1957-59 index basis. To avoid inconsistent stock coverage over time, annual changes in stocks were applied to the level of stocks that existed on January 1, 1961. Current supply-utilization data are published quarterly in the National Food Situation (19).

The supply-utilization index is based on the same set of balance sheet data used to compute the quantities of food that ultimately go into the per capita food consumption index. Farm-weight equivalents are derived (sometimes implicitly) from the primary weights shown in chapter 6. Balance sheets on nonfood farm products, such as cotton, tobacco, wool, and inedible oils, provide additional data for the supply-utilization index. However, certain nonfarm foods such as fishery products, game animals, and foreign spices were excluded from the index. Rubber; silk; forest, greenhouse, nursery products; and horses and mules also were excluded. The complete list of items included in the index and the relative importance of each are given in table 91.

The concept of production used in the supply-utilization index is not strictly a measure of farm production. Crop production, which excludes pasture, corn silage, crops not harvested, excess cullage of harvested crops, and certain nonfood uses, is measured in the year produced as reported by SRS. Livestock production excludes farm inventories of livestock and duplications that arise in inter-farm sales of breeding stock and stocker and feeder cattle. Previous publication of the index combined crop and livestock production on a "gross" production basis, a procedure which involved double counting of feed and seed. Tables 89 and 90 are on a "net" production basis which excludes livestock feed and seed from crop production when totaling the crop and livestock sectors.

Imports of farm products were valued by using prices received by U. S. farmers for domestic commodities. Coffee, tea, cocoa, bananas, and certain oilseeds and tree nuts are included in the index, even though there is little or no U. S. production of such commodities. They were included on the premise that they compete directly with U. S. commodities. They are priced on the basis of the first domestic sale. Imports include inshipments from U. S. Territories and from Alaska and Hawaii through 1961, inasfar as data are available. The supply-

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Table 84.--Supply-utilization of farm commodities: Percentage of total annual net utilization, 1924-63 1/

Year	Net production	Net imports 2/	Stock change 3/	Total annual utilization	Domestic use			Exports and shipments 6/
					Food		Net nonfood 5/	
					Civilian	Military 4/		
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1924	83.4	11.8	-1.8	[illegible]	[illegible]	---	10.7	12.4
[illegible]	87.1	[illegible]	.1	[illegible]	[illegible]	---	[illegible]	11.5
[illegible]	[illegible]	13.1	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	12.7	1.7	[illegible]	[illegible]	---	12.4	12.6
[illegible]	[illegible]	12.7	-[illegible]	[illegible]	[illegible]	---	[illegible]	11.5
[illegible]	[illegible]	14.1	7/	[illegible]	[illegible]	---	12.4	10.8
[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	94.4	[illegible]	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	94.1	11.3	4.[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	14.1	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	14.1	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	14.7	-11.7	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	13.4	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-1.1	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	12.6	-[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]
[illegible]	[illegible]	14.0	-[illegible]	[illegible]	[illegible]	1.6	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-[illegible]	[illegible]	[illegible]	11.9	14.2	7.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	11.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	12.[illegible]	- .4	[illegible]	[illegible]	[illegible]	14.1	7.2
[illegible]	[illegible]	11.[illegible]	-[illegible]	[illegible]	[illegible]	[illegible]	12.3	[illegible]
[illegible]	[illegible]	10.4	.3	[illegible]	[illegible]	1.7	14.2	[illegible]
[illegible]	[illegible]	11.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.3	10.[illegible]
[illegible]	[illegible]	11.	-[illegible]	[illegible]	[illegible]	[illegible]	12.[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-4.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-4.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	11.[illegible]	-4.[illegible]	[illegible]	[illegible]	1.7	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	-4.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	10.7	-[illegible]	[illegible]	.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	11.	-2.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	88.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] 8/	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1/ Quantities weighted by average farm prices in [illegible]; prior to [illegible], quantities are weighted using [illegible] average farm prices but "linked" to the [illegible] base period at [illegible]; nondomestic items at import price. Use of farm products allocated on the basis of value of processed products. See Measuring the Supply and Utilization of Farm Commodities, Agriculture Handbook No. [illegible], [illegible] for basic methodology. On [illegible]-State basis for [illegible] and [illegible]. Net concept excludes domestic use of feed and seed to avoid double counting. 2/ Includes imshipments from Alaska and Hawaii prior to [illegible] and U. S. Territories for all years. 3/ Includes farm and commercial stocks and holdings under Government programs. Negatives indicate increases in stocks from beginning to end of year; positives signify withdrawals from stocks. 4/ Includes civilian feeding in areas occupied by U. S. Armed Forces. 5/ Excludes feed and seed; includes some waste and loss at the farm. 6/ Includes shipments to Alaska and Hawaii prior to 1962 and shipments to U. S. Territories for all years. 7/ Less than [illegible] percent. 8/ Preliminary.

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Table 90.--Supply-utilization of farm commodities: Indexes by component, 1924-63 1/

(Index: 1957-59=100)

Year	Net production	Net imports 2/	Stocks January 1 3/	Total annual net utilization	Domestic use				Exports and shipments 6/
					Food		Net nonfood 5/	Total	
					Civilian	Military 4/			
1924	61.4	62.8	47.4	61.6	62.8	---	60.8	61.5	65.7
1925	60.8	69.3	48.8	62.6	63.4	---	68.0	63.0	63.4
1926	63.4	72.9	48.1	63.9	64.7	---	70.0	64.3	64.7
1927	61.7	71.1	50.7	64.6	64.2	---	73.6	64.4	69.7
1928	62.9	70.6	48.8	63.9	64.7	---	70.0	64.3	64.6
1929	62.0	79.3	50.1	64.7	65.9	---	74.0	65.9	59.9
1930	62.0	70.1	50.1	62.6	66.0	---	63.3	64.7	50.9
1931	66.1	64.4	52.1	62.8	66.6	---	62.7	65.1	49.0
1932	62.8	55.7	58.6	61.6	65.0	---	55.5	63.3	52.2
1933	58.7	62.8	60.6	62.6	66.1	---	66.9	65.1	47.0
1934	56.5	58.9	56.0	62.4	67.5	---	65.9	66.2	37.2
1935	61.5	74.2	47.4	60.7	65.1	---	69.9	64.6	34.7
1936	56.2	78.1	52.7	63.8	67.7	---	81.7	68.4	32.8
1937	70.7	83.5	44.8	65.3	68.9	---	83.2	69.6	37.4
1938	66.8	69.1	58.0	64.4	68.4	---	71.3	67.7	43.5
1939	66.3	74.9	64.6	67.3	71.5	---	82.7	71.7	38.0
1940	69.8	75.4	65.2	68.6	74.0	---	86.5	74.4	29.3
1941	72.1	92.0	69.8	72.7	75.0	80.9	108.2	79.2	28.5
1942	80.6	63.8	73.8	76.8	74.2	287.0	114.4	82.6	37.4
1943	77.8	71.0	77.1	82.2	74.8	471.7	114.8	86.1	58.0
1944	86.7	78.7	69.2	86.7	77.2	696.2	113.1	91.5	55.2
1945	83.6	80.1	69.8	86.8	78.2	647.4	110.2	91.3	58.4
1946	85.1	83.7	66.6	87.6	85.6	167.0	111.4	90.1	74.2
1947	83.4	81.0	64.6	86.7	85.4	177.5	105.3	89.3	67.4
1948	89.7	88.2	60.6	84.1	83.3	207.0	108.7	88.4	51.8
1949	86.0	85.1	73.1	85.0	84.4	207.6	95.9	87.8	64.1
1950	84.4	93.0	77.8	87.3	86.4	108.1	113.2	90.1	66.0
1951	84.9	89.8	77.1	89.8	85.9	214.4	109.5	90.9	81.3
1952	90.3	89.2	72.5	89.0	88.9	160.2	102.0	91.6	69.3
1953	92.6	92.8	77.8	90.0	91.3	149.2	104.2	93.8	61.3
1954	94.0	82.7	85.0	90.7	92.7	125.2	96.1	93.6	69.0
1955	97.6	89.5	91.2	94.7	96.3	111.0	102.7	97.3	75.2
1956	99.9	93.1	97.2	100.1	99.3	112.4	105.3	100.3	98.5
1957	97.9	92.7	98.6	100.1	98.9	101.6	97.9	98.8	110.0
1958	101.1	95.7	97.1	97.9	98.8	99.9	96.7	98.5	92.8
1959	101.0	111.6	104.3	102.0	102.3	98.5	105.4	102.7	97.2
1960	105.9	106.3	107.6	105.7	103.5	94.2	102.8	103.3	123.9
1961	104.6	112.6	111.3	107.5	105.6	104.0	103.0	105.3	124.6
1962	107.0	115.3	110.9	108.9	107.2	108.3	106.9	107.2	121.9
1963 7/	111.9	117.5	112.6	113.2	110.8	108.3	106.1	110.2	136.1

1/ Quantities weighted by average farm prices in 1957-59; prior to 1955, quantities are weighted using 1947-49 average farm prices but "linked" to the 1957-59 base period at 1955; imports priced at port of entry. Use of farm products allocated on the basis of value of processed products. See Measuring the Supply and Utilization of Farm Commodities, Agriculture Handbook No. 91, 1955, for basic methodology. On 50-State basis beginning 1962. Net concept excludes domestic use of feed and seed to avoid double counting. 2/ Includes inshipments from Alaska and Hawaii prior to 1962 and inshipments from U. S. Territories for all years. 3/ Includes farm and commercial stocks and holdings under Government programs. Stock coverage throughout the period is comparable to level on Jan. 1, 1961. The index is computed from stock levels derived by applying annual changes to 1961 level to avoid problem of inconsistent stock coverage over time. 4/ Includes civilian feeding in areas occupied by U. S. Armed Forces. 5/ Excludes feed and seed; includes some waste and loss at the farm. 6/ Includes shipments to Alaska and Hawaii prior to 1962 and shipments to U. S. Territories for all years. 7/ Preliminary.

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Table 91.--Net utilization of farm commodities: Relative importance of commodities, 1957-59 average and 1963 1/

Commodity	1957-59	1963 preliminary	Commodity	1957-59	1963 preliminary
	Pct.	Pct.		Pct.	Pct.
Crops			Crops -Continued		
Beverages			Tobacco	3.9	3.7
Cocoa	0.8	0.8			
Coffee	4.4	4.3	Vegetables and other food crops		
Tea	.2	.2	Beans, dry	.4	.4
Total	5.4	5.3	Cowpeas for peas	2/	2/
Cotton lint	6.7	5.6	Mustard seed	2/	2/
			Peas, dry	2/	2/
Food grains			Popcorn	2/	2/
Buckwheat	2/	2/	Potatoes	1.1	1.1
Rice	.7	.8	Sweetpotatoes	.2	.1
Rye	.1	.1	Other vegetables	5.8	5.4
Wheat	5.2	6.2	Total	7.5	7.0
Total	6.0	7.1			
			Other nonfood crops		
Feed grains			Broomcorn	2/	2/
Barley	.6	.4	Field crop seeds	2/	2/
Corn	1.7	2.5	Hops	.1	.1
Grain sorghums	.2	.3	Vegetable seeds	2/	2/
Oats	.1	.1	Total	.1	.1
Total	2.6	3.3			
			Total crops	43.4	44.2
Fruits and tree nuts					
Bananas	.8	.8			
Other fruits	4.3	4.0			
Tree nuts	.5	1.1	Livestock		
Total	5.6	5.9	Animal fibers		
			Mohair	.1	.1
Hay, silage, and forage	2/	2/	Wool, shorn	1.2	1.3
			Total	1.3	1.4
Oil crops					
Castor beans	.1	2/	Dairy products	15.0	13.6
Copra	.3	.3			
Cottonseed	.4	.4	Honey	.1	.1
Flaxseed	.2	.2			
Olive oil, olive basis	.1	.1	Meat animals		
Palm kernels	.1	.1	Cattle and calves	18.3	19.2
Palm oil, fruit basis	2/	2/	Hogs	10.5	10.4
Peanuts	.5	.5	Sheep and lambs	1.0	1.0
Rapeseed	2/	2/	Total	29.8	30.6
Soybeans	1.7	2.3			
Sunflower seed	2/	2/	Poultry and eggs		
Tung nuts	2/	2/	Chickens	3.6	3.9
Sesame seed	2/	2/	Eggs	5.8	5.0
Total	3.4	3.9	Turkeys	1.0	1.2
			Total	10.4	10.1
Sugar crops					
Maple sirup	2/	2/	Total livestock	56.6	55.8
Maple sugar	2/	2/			
Sorgo sirup	2/	2/	Total all farm commodities	100.0	100.0
Sugarcane and sugar beets	2.2	2.3			
Sugarcane sirup	2/	2/			
Total	2.2	2.3			

1/ Distribution of total annual net utilization from the index of supply-utilization of farm commodities; excludes duplication of feed and seed.

2/ Less than 0.05 percent.

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utilization index currently is on a 50-State basis beginning with 1962; in future revisions the 50-State index will start with 1960.

A major problem in allocation of the total use of farm commodities arose in estimating the farm equivalent of processed farm products that ultimately are used for both food and nonfood purposes. The farm value of such joint products was allocated on the basis of wholesale value. By this method, only the proportionate shares of intermediate use value influence the allocation of a given product among alternative uses. The value of final processing and retailing services do not influence the allocation among uses. Since farm prices were used to weight equivalent quantities of farm products, the value of marketing services did not affect the weighting among products. This method departs from that of the per capita food consumption index where value added by off-farm processing and marketing does enter the weighting system of the index by the use of retail prices. This distinction helps explain the differences in trends between the food component of the supply-utilization index and the food consumption index (chapter 2).

Exports include shipments to U. S. Territories and to Alaska and Hawaii through 1961. Exports consist of both raw and processed farm products. Domestic use includes the farm value equivalents of imported finished products. No distinction is shown in the accompanying tables between food and nonfood exports since ultimate uses are not known.

Domestic food use is divided between the civilian and the military on the same basis as in the commodity balance sheets in chapter 6. However, no information is available on how to divide nonfood use between them.

Related Indexes

Two other major series of index numbers are used to indicate trends in quantity of food and other farm commodities produced and marketed. Neither of them, however, allocates supply among final end uses. (1) The index of farm output measures changes in production of crops and livestock in the year they are produced, even though some of these commodities may be marketed in subsequent years. (2) The index of volume of farm marketings and home consumption measures calendar-year changes in quantities of food and other farm production when they enter the marketing system as sales by farmers, or when consumed in farmers' households.

Farm Output Index

The farm output index, prepared by the Farm Production Economics Division of ERS, measures year-to-year changes in the volume of farm production available for eventual human use. 12/ It includes crops produced during the crop year, minus hayseeds, pasture seeds, cover-crop seeds, and hay and concentrates fed to horses and mules. In aggregating the crop and livestock indexes into the total, "net" livestock production (excluding horses and mules) is added to crop production. Net livestock production eliminates duplication of crops by subtracting hay and concentrates fed from gross production. This method of obtaining net production of crops and livestock differs from that used in the supply-utilization index. Regional production and price weights are used in computing the farm output index, whereas national averages are used for the supply-utilization index. However, both use prices received by farmers as index weights.

Volume of Farm Marketings and Home Consumption Index

The volume of farm marketings and home consumption index summarizes changes in quantities of all commodities included in gross farm income except those

12/ The historical series of farm output is published annually in Changes in Farm Production and Efficiency (16). For a description of the methodology used in constructing the index and some of the basic tables, see Major Statistical Series of the U. S. Department of Agriculture (89, vol. 2).

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few estimated on a value basis. 13/ It includes quantities of farm products sold by farmers and quantities consumed in farm households on farms where grown (home consumption). Net quantities placed under CCC loan are included with marketings.

The index of marketings and home consumption is broken down in three ways: (1) Between total crops and total livestock (including products), with subindexes for the principal commodity groups in each category; (2) between marketings and home consumption, with the marketings index subdivided by commodity groups and the home consumption index subdivided between crops and livestock; and (3) between food and nonfood products, with subdivisions by commodity groups. The food component represents about three-fourths of the total index (tables 92 and 93). Each farm product included in the index is entirely allocated to a food or nonfood group by its major use as indicated by end-product values. For example, all wheat is counted as food, and all corn sales as nonfood. No attempt is made to allocate a given product among end uses as is done in the supply-utilization index. The index includes only feed sold in its crop component and credits other feed indirectly in the form of livestock in the year sold or consumed--which may be the year following that in which the feed was produced.

This index uses the same basic method as the farm output and supply-utilization indexes in combining quantities by using farm prices in a base period. However, commodities for which quantity data are not available for the whole period covered by the index before 1955 were introduced into the price-quantity aggregates in the year they were first included in gross farm income--or dropped out in the year they disappeared from gross farm income. No new commodities were added after 1954, but several were dropped. In this event, an adjustment was made in the price weights to maintain the group aggregate at the same level in the "spliced" month as before the commodity was dropped.

Omitted from the index are items that account for about 3 percent of the commodity total included in realized gross farm income. However, interstate sales of livestock for feeding and breeding, and interfarm sales of feed crops and seeds are included in the index because the primary purpose of the basic data is to measure commodity volume associated with gross income. About 10 percent of the 1957-59 value aggregate for the combined index is probably duplication. Interstate sales of livestock for feeding and breeding, the only duplicated food item, probably represented about 8 percent of the 1957-59 value aggregate for the food-products index.

Beginning with data for 1955, quantities are combined using average farm prices in 1957-59. At this time, the index weights were adjusted by imputing values for commodities for which quantities were not available in order to balance base-period aggregates with total cash receipts. This imputation and a shift of melons from the fruits to the vegetables group were the only major departures from previous computational procedures. The index numbers for years prior to 1955 have been linked to the new index at the 1955 level.

13/ The index is published regularly in The Farm Income Situation (16) and the National Food Situation (19). For a description of methodology, see 89, vol. 2.

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Table 72.--Volume of farm marketings and home consumption, 1910-63 1/

(Index, 1957-59 = 100)

Year	Food														Nonfood marketings 7/					Total
	Marketings									Home Consumption				Total						
	Livestock				Crops															
	Meat animals	Dairy prod.	Poultry and eggs	Total 2/	Food grains	Vegetables 3/	Fruits and nuts 4/	Sugar crops	Total 5/	Total	Livestock	Crops 6/	Total		Feed crops	Cotton, lint and seed	Tobacco	Oil-bearing crops 8/	Seeds	Total 9/	
1910	47	35	23	39	48	39	41	55	45	40	215	257	220	51	41	66	58	4	18	59	51
1911	48	36	25	40	49	37	47	61	45	42	210	257	220	52	38	115	63	5	19	57	54
1912	50	36	24	41	54	41	53	57	49	42	209	257	220	54	46	111	59	8	19	57	54
1913	50	36	24	41	58	46	39	55	48	43	209	254	219	58	47	109	67	7	19	57	56
1914	47	34	24	40	70	46	53	56	56	44	204	251	217	53	37	102	54	4	20	42	52
1914	50	40	25	42	73	44	54	57	57	46	214	253	222	55	40	115	62	4	20	58	56
1916	54	40	24	44	64	41	48	60	52	46	210	241	217	55	41	97	69	4	21	56	55
1917	54	42	24	44	50	45	50	64	49	44	204	258	214	55	38	88	73	3	21	52	55
1918	51	42	24	46	71	48	45	71	57	47	212	248	219	53	45	86	74	3	22	55	59
1919	53	45	26	48	71	44	50	62	57	47	210	236	215	54	37	78	69	3	22	56	54
1920	54	45	26	45	61	48	55	74	56	47	204	246	214	57	41	95	73	3	24	52	56
1921	52	47	27	45	74	44	46	73	57	46	201	231	207	57	47	67	65	3	26	56	57
1922	53	49	29	50	68	51	80	55	61	51	199	253	211	60	48	77	67	3	27	51	59
1923	54	52	31	53	60	52	69	59	54	51	197	231	204	63	46	80	76	3	28	51	61
1924	54	54	31	55	67	56	61	62	55	54	199	230	203	64	46	100	77	10	35	59	63
1925	50	55	32	53	64	57	58	57	58	53	194	213	199	61	57	121	50	8	36	61	61
1926	53	57	34	54	61	54	72	55	61	54	194	220	203	63	41	135	75	8	36	63	63
1927	53	58	36	56	71	56	72	56	64	56	194	210	196	64	46	117	82	9	43	61	62
1928	50	61	36	56	69	60	69	62	66	57	188	225	197	65	41	113	78	7	37	60	64
1929	48	64	36	56	65	64	67	64	66	57	183	218	191	65	37	109	81	8	47	61	61
1930	48	64	38	56	67	63	66	67	62	56	184	218	193	64	34	113	78	9	44	58	63
1931	47	66	36	56	68	61	71	61	64	57	186	241	204	66	38	116	86	8	45	57	63
1932	48	66	38	58	60	60	68	63	62	58	203	253	217	64	35	107	73	6	36	56	62
1933	49	66	38	56	64	60	74	73	66	58	210	244	217	66	37	94	73	6	43	53	62
1934	51	66	41	57	56	66	63	68	63	58	201	231	207	66	38	94	76	8	45	49	62
1935	50	66	38	61	66	67	75	67	70	63	183	243	200	61	31	77	76	10	41	46	58
1936	50	66	40	56	64	64	68	74	69	64	193	221	199	64	39	91	68	7	40	50	61
1937	54	67	42	64	66	63	73	72	66	64	198	243	208	66	42	136	64	7	42	61	64
1938	54	67	44	64	67	65	73	75	69	64	198	236	206	66	45	134	67	10	50	61	66
1939	51	69	43	64	61	71	78	82	71	67	194	246	204	66	45	137	78	10	49	60	66
1940	49	71	42	63	56	70	80	86	69	64	184	211	192	70	44	93	85	17	63	61	63
1941	47	73	42	62	63	77	81	94	77	67	190	214	197	68	41	96	73	17	64	59	72
1942	46	75	44	62	74	76	84	87	79	68	179	211	184	71	41	91	71	17	71	61	72
1943	46	78	44	61	74	86	76	96	79	68	178	204	185	70	46	94	71	21	71	61	71
1944	47	80	46	64	80	90	85	94	87	71	177	201	183	70	46	94	69	21	69	63	69
1945	47	84	47	63	83	91	74	94	86	71	177	194	182	70	47	94	121	41	74	77	74
1946	46	85	48	62	84	99	77	82	87	71	171	187	175	69	47	91	139	41	73	84	74
1947	44	87	44	61	102	93	84	96	96	74	169	179	172	71	47	94	146	42	73	79	75
1948	44	89	43	62	104	97	93	104	97	75	169	169	169	72	47	93	145	43	73	76	74
1949	45	92	47	64	99	95	92	98	94	75	174	169	173	74	47	93	151	44	74	77	75
1950	48	93	49	67	97	97	95	98	96	77	179	169	176	76	47	93	151	44	74	77	76
1951	51	94	50	70	96	96	96	98	96	78	183	169	179	77	47	93	151	44	74	77	76
1952	52	95	51	72	97	97	97	98	97	79	186	169	181	78	47	93	151	44	74	77	77
1953	53	96	52	74	97	97	97	98	97	80	189	169	183	79	47	93	151	44	74	77	77
1954	54	97	53	76	97	97	97	98	97	81	192	169	186	80	47	93	151	44	74	77	78
1955	55	98	54	78	97	97	97	98	97	82	195	169	189	81	47	93	151	44	74	77	78
1956	56	99	55	80	97	97	97	98	97	83	198	169	192	82	47	93	151	44	74	77	79
1957	57	100	56	82	97	97	97	98	97	84	201	169	195	83	47	93	151	44	74	77	80
1958	58	101	57	84	97	97	97	98	97	85	204	169	198	84	47	93	151	44	74	77	81
1959	59	102	58	86	97	97	97	98	97	86	207	169	201	85	47	93	151	44	74	77	82
1960	60	103	59	88	97	97	97	98	97	87	210	169	204	86	47	93	151	44	74	77	83
1961	61	104	60	90	97	97	97	98	97	88	213	169	207	87	47	93	151	44	74	77	84
1962	62	105	61	92	97	97	97	98	97	89	216	169	210	88	47	93	151	44	74	77	85
1963	63	106	62	94	97	97	97	98	97	90	219	169	213	89	47	93	151	44	74	77	86

1/ Quantities of farm products marketed by growers in a given year. Includes sales, trucked to retail stores, farmers' markets, roadside stands, etc., and sales to dealers, processors, and others who buy farm products for resale. Excludes sales between farms. Records of quantities of wheat, rye, wine, and truck crops sold direct to consumers are limited; most of these other items are sold through marketing agencies or cooperatives. Includes farmers' marketings of items purchased and resold, with home consumption adjustments.

2/ Includes honey in addition to groups shown separately.

3/ Includes tomatoes, lettuce, and potatoes grown under glass or plastic beginning [illegible].

4/ Includes melons [illegible], berries, grapes.

5/ Includes tomatoes, lettuce, and potatoes grown under glass or plastic beginning [illegible], dry beans, peas, peanuts, and miscellaneous vegetables in addition to groups shown separately.

6/ Includes corn, [illegible] and sugar beets.

7/ [illegible] of farm products for nonfood uses.

8/ [illegible] soybeans, flaxseed, castor beans, peanuts [illegible].

9/ In addition to [illegible] shown separately, [illegible] = [illegible], = seed, and flaxseed [illegible], and [illegible].

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Table 93.--Volume of farm marketings and home consumption index: Relative importance of major groups, selected years 1/

Item	1910-14	1935-39	1947-49	1957-59	1963
Marketings and home consumption of all farm commodities	100.0	100.0	100.0	100.0	100.0
Food marketings and home consumption	78.3	81.1	78.4	76.5	74.3
Food marketings	59.8	67.5	70.7	72.5	71.8
Total food livestock	44.7	49.5	52.1	54.3	54.4
Meat animals	25.1	24.5	29.1	31.1	31.8
Dairy products	12.6	15.7	13.1	13.7	12.9
Poultry and eggs	7.0	9.1	9.8	9.2	9.4
Honey	---	.2	.1	.3	.3
Total food crops	15.1	18.0	18.6	18.2	17.4
Food grains	6.7	5.6	6.3	6.9	6.6
Vegetables 2/	4.0	6.4	5.8	5.5	5.3
Fruits and nuts 3/	3.5	4.7	3.3	4.4	3.9
Sugar crops	.8	.9	.6	.8	1.0
Oil and miscellaneous crops 4/	.1	.4	.6	.6	.6
Home consumption	18.5	13.6	7.7	4.0	2.5
Livestock	13.6	9.8	5.7	2.8	1.6
Crops 5/	4.9	3.8	2.0	1.2	.9
Nonfood marketings	21.7	18.9	21.6	23.5	25.7
Livestock	1.7	1.5	.5	.6	.7
Feed crops	6.8	4.7	7.0	8.5	9.2
Cotton	9.9	6.5	8.0	6.9	7.8
Tobacco	2.6	3.1	3.1	3.2	3.6
Oil crops 6/	.3	.5	2.4	3.6	4.1
Seeds	.2	.4	.4	.4	.3
Miscellaneous 7/	.2	.1	.2	.1	---

1/ Quantities of farm products weighted by average 1957-59 farm prices since 1955, 1947-49 prices in earlier years. Excludes Alaska and Hawaii. All quantities of wheat, rye, rice, and buckwheat counted as food, other grains as nonfood. Oilseeds other than peanuts assigned to nonfood. Insignificant amounts of butter marketings are included with home consumption after 1954.

2/ Includes cucumbers, lettuce, and tomatoes grown under glass and melons beginning 1955.

3/ Includes melons 1910-54; excludes peanuts.

4/ Includes cucumbers, lettuce, and tomatoes grown under glass 1910-54, and peanuts, popcorn, peppermint, and spearmint.

5/ Includes corn, 1910-60, and cowpeas.

6/ Excludes cottonseed and peanuts.

7/ Includes: Broomcorn, hops, beeswax, wool, mohair, turkey hatching eggs, 1910-date; bees, hempfiber, hempseed, and flaxfiber prior to 1954; and, horses and mules prior to 1960.

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CHAPTER 8. FOOD CONSUMPTION SURVEYS

Household surveys of food consumption provide an alternative to the balance sheet or disappearance method. Both involve problems of determining actual ingestion, but each method has advantages. The disappearance method is the only feasible way of deriving annual time series data. The survey approach is useful in cross-sectional analysis of consumption among income groups, degrees of urbanization, areas of the country, and other stratifications. Periodic surveys are valuable as benchmarks in analyzing in depth the overall consumption levels derived by the disappearance method (9).

There are two chief methods of obtaining household data on food consumption. One is to ask the housewife to recall the quantities of food consumed during a previous period, usually a week. The second is to record food purchases (or nonpurchased food brought into the kitchen) day by day and perhaps obtain an inventory of food on hand both at the beginning and at the end of a period. For nationwide surveys, recalls are customarily used in the United States. Compared with records, recalls cost less in time and money and promise a higher rate of cooperation; thus they furnish a better sample of the universe under study, and appear to provide data of similar quality.

Major Household Surveys of Food Consumption

Several nationwide surveys and many small-scale surveys of food consumption by households have been made in this country. The first large-scale family study that included data on food consumption was made by the U. S. Department of Commerce and Labor in 1899-1902 (97). Surveys of household food purchase of wage earners and lower salaried clerical workers were made by the Bureau of Labor Statistics (BLS) in 1918-19 (81) and in 1934-36 (67).

The first nationwide dietary study to include both farm and nonfarm families was the 1935-36 Consumer Purchases Study (65, 66). It provided data on the quantity, money value, and nutritional contents of food consumed. The interviewing continued more than a year. Detailed food data for segments of the population were difficult to combine satisfactorily because the sample was not designed to provide complete coverage. It covered only nonrelief families with a husband and wife, both native-born (52).

Another major study which was designed to cover food consumption of all households, including individuals living alone, was the study of Family Spending and Saving in Wartime, covering a week in spring 1942 (80, 82). Though generally consistent with the later 1955 survey, consumption of some items in spring 1942 was affected by the collection of data primarily in April and May. Only about 10 percent of the urban schedules and no rural schedules were collected in June. Although the effects of wartime conditions on food consumption could not be directly measured by this survey, it is probable that consumption of some foods, especially sugar, was affected. Some comparisons of food consumption data from the 1936 and 1942 dietary studies with the corresponding disappearance data are given in Miscellaneous Publication No. 550 (80).

Two studies, using small samples, were made during the later war years--a 1944 study of wartime food purchases and a 1945 survey of food purchases of city families (4, 26, 83).

A survey of the food consumption of urban housekeeping households of two or more persons was made in the spring of 1948 by USDA. Supplementary data were obtained on household food consumption in four cities during three seasons of 1948 and for two cities in two seasons of 1949 (12).

A nationwide survey of food expenditures of urban consumers by BLS in the spring of 1951 covered both the year 1950 and a week in the spring of 1951. This study was made to provide the basis for the 1953 revision of the Consumer Price Index (27, 61).

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Data from the 1950 survey were summarized and published for individual cities and for classes of cities (large cities, suburbs of large cities, and small cities) in three regions--North, South, and West. Groupings of families also were shown--for example, by income, family size, age of head, occupation of family head, and family type. The University of Pennsylvania tabulated expenditures for food by region and city size and by various family characteristics in Study of Consumer Expenditures, Incomes and Savings (70).

ARS and C&MS cooperated in conducting the 1955 Survey of Household Food Consumption (90). This survey was designed to provide data on food consumption by all housekeeping households in the spring of 1955 and for major segments such as households grouped by region, urbanization, and income. The universe was the U. S. housekeeping population of about 153 million civilians. Excluded from the universe were about 9 million people (1) who lived in households in which no one had 10 or more meals from household supplies during the survey week, and (2) who lived in rooming houses or hotels, or in public or private institutions--often described as the nonhousekeeping population.

The survey included single-person households, but only households of two or more persons were subdivided by family income. Therefore, detailed data on quantities of food consumed at home by people at several income levels are available only for these larger households.

Three sets of indexes were developed from the 1955 food survey (37). Two match the definitions of the time-series indexes of per capita food use of farm commodities (table 4); one of these covers consumption from all sources, and the other measures only purchased foods. For these indexes, consumption data from the 1955 survey were converted to their farm commodity equivalents and valued at 1947-49 farm prices. The third index measures variations in consumption from all sources in terms of average retail value at 1947-49 average prices (table 94). This index matches the concept of the retail-price-weighted index of per capita food consumption in chapter 2.

These three sets of indexes have been tabulated for each of the four major regions of the country as well as for the U. S. total. This information constitutes the latest and most comprehensive data available for making estimates of consumption on a regional or subregional basis. The cross-sectional relationships from the 1955 survey are the only such data available. When necessary to develop regional data, these relationships can be updated to recent years on the basis of changes in population, income, and time-series estimates of U. S. average per capita consumption by the use of appropriate income and price elasticities. However, extrapolation from 1955 data is becoming subject to wide error. Data from the 1965 survey will be used to improve estimates of regional food consumption.

A nationwide study of all consumer expenditures was made by Life magazine in 1956 (24). For this survey, families kept records of food expenditures each day for 10 days. The statisticians reported difficulties in obtaining information on consumption by high-income households. Data were reported on only 18 subdivisions of food; published data do not indicate how much detail was obtained on consumption of individual food items.

In 1960 and 1961, BLS and USDA conducted a nationwide survey of consumer incomes, expenditures, and savings. The urban part of the survey, conducted by BLS, consisted of a sample of 66 cities divided between the years 1960 and 1961. The rural portion of the survey was confined to 1961. Collection of data from farm families and rural nonfarm families outside Standard Metropolitan Statistical Areas (SMSA's) was made by USDA; collection of data from rural nonfarm families within SMSA's was made by BLS. Data for the urban, rural nonfarm, and total population are being published by BLS (28, 84) and data for the farm population by USDA (93).

For each urbanization group there will be three sets of publications for four regions--Northeast, North Central, South, and West--and the U. S. total. The first set consists of summary tabulations of income, expenditures, and savings classified by 10 family characteristics. The

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Table 94.--Cross-section indexes of per capita food consumption, United States, 1955 1/

(Index: U. S. all household average = 100)

Urbanization and income groups (dollars)	All food 2/	Livestock					Crops						
		Meat 3/	Poultry	Eggs	Dairy products 4/	All livestock	Grain products 5/	Fats and oils 6/	Sugar and sirups	Fruits 7/	Vegetables	Potatoes and sweetpotatoes	All crops 8/
ALL URBANIZATIONS													
All households	100	100	100	100	100	100	100	100	100	100	100	100	100
Households of 2 or more persons	99	100	99	99	100	100	99	100	100	99	99	100	99
Under 2,000	82	74	89	92	78	81	109	96	90	68	76	93	83
2 - 3,000	93	94	90	95	91	92	104	93	95	84	90	103	93
3 - 4,000	96	95	89	98	97	95	101	97	103	92	97	109	98
4 - 5,000	102	104	96	99	106	102	97	98	102	103	102	105	102
5 - 6,000	105	109	109	101	107	106	100	101	103	110	104	98	104
6 - 8,000	110	112	113	105	110	110	97	104	107	120	109	104	109
8 - 10,000	111	110	110	108	111	111	91	115	113	134	114	95	112
10,000 and over	119	119	130	117	120	121	91	120	111	144	130	94	118
URBAN													
All households	102	106	113	97	99	103	93	98	95	107	106	94	101
Households of 2 or more persons	102	105	112	97	99	103	93	98	95	104	105	94	101
Under 2,000	83	90	104	83	64	83	94	83	78	76	79	82	82
2 - 3,000	90	96	96	88	82	90	96	86	84	79	92	89	89
3 - 4,000	96	98	101	92	95	96	96	94	95	91	98	100	96
4 - 5,000	101	104	106	92	104	101	94	94	95	103	106	95	101
5 - 6,000	107	111	124	102	106	109	95	100	99	111	107	90	104
6 - 8,000	111	112	119	104	110	111	97	105	105	121	113	98	110
8 - 10,000	109	107	119	109	106	109	87	113	108	135	115	85	111
10,000 and over	120	120	133	120	117	122	90	123	110	149	135	87	119
RURAL NONFARM													
All households	95	92	82	99	94	93	107	100	104	94	93	110	100
Households of 2 or more persons	95	92	81	97	94	92	108	99	103	93	92	109	99
Under 2,000	75	61	77	86	71	71	112	97	85	62	69	99	81
2 - 3,000	93	89	88	95	88	89	113	94	99	86	90	108	98
3 - 4,000	93	89	68	101	92	88	111	95	108	90	95	117	101
4 - 5,000	101	101	78	105	105	100	103	106	108	100	96	114	103
5 - 6,000	102	104	87	101	104	101	110	100	108	106	101	109	106
6 - 8,000	107	111	93	103	108	105	99	101	108	122	106	111	109
8 - 10,000	116	116	99	106	123	115	98	118	120	134	119	109	119
10,000 and over	113	101	129	100	134	114	97	116	108	129	110	116	112
FARM													
All households	100	92	81	115	115	103	112	111	114	88	88	119	95
Households of 2 or more persons	99	92	81	113	115	103	112	111	114	88	86	119	95
Under 2,000	88	74	82	105	100	90	119	108	104	66	80	97	86
2 - 3,000	102	96	71	116	123	106	114	110	120	96	87	127	98
3 - 4,000	104	97	82	129	122	109	109	113	124	94	89	122	98
4 - 5,000	109	110	71	127	123	113	107	113	122	106	97	134	104
5 - 6,000	110	110	86	115	131	115	108	107	122	107	95	135	103
6 - 8,000	106	104	113	122	119	114	105	109	118	97	87	136	97
8 - 10,000	112	117	65	109	130	117	99	126	132	118	96	150	105
10,000 and over	125	139	139	118	147	138	97	106	119	129	107	124	111

1/ Derived from 1955 Household Food Consumption Survey data on household use of individual foods, using average retail prices in 1947-49. Family money income in 1954 measured after income taxes. 2/ Includes fish. 3/ Excludes lard. 4/ Includes all ingredients in ice cream and condensed milk, excludes butter. 5/ Excludes corn sugar and sirup. 6/ Excludes peanuts and peanut butter. 7/ Includes melons. 8/ Includes some commodity groups (dry beans and peas, coffee, tea, and cocoa, etc.) not shown separately.

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second set will consist of 17 summary tables employing cross-classifications among the 10 family characteristics used in the first set. The third set will consist of a detailed presentation of income, expenditures, and savings by (1) family size and income, and (2) by family size and location of residence inside or outside SMSA's. BLS has published data comparable to the first set for individual cities. The survey also obtained data from nonfarm households on purchases of food during the seven days preceding the survey, but plans for publishing these data are indefinite. This survey, therefore, is of marginal use in verifying food consumption data from other sources.

ARS plans to begin data collection on a new nationwide household food consumption survey beginning in spring 1965. It will be similar to the one conducted in spring 1955, but it will be expanded in two major dimensions: (1) Sampling will be continued in the three succeeding quarters so that seasonality of food consumption can be analyzed. (2) Food intake by individual family members will be surveyed, so nutritional variations among groups of people will be cataloged for the first time on a large scale. Plans call for interviewing 7,500 households in spring 1965 and 2,500 more in each of the three succeeding quarters. From the spring sample, 13,000 individuals will be surveyed for the diet study. The procedure will be a 1-week recall sometime during the specified quarter for the household survey and a 1-day recall for the individual diet.

Records of family food purchases on a continuing basis have been obtained by at least two university groups, Michigan State University and University of Georgia, and by several private, market-research organizations that sell the information on particular items to business firms or to Government agencies. Samples for the panels are made up of families who often are paid for their participation with "points" which are redeemable in merchandise. Most panels experience problems in retaining randomness of the sample in the highest and lowest income groups. The surveys usually are conducted by personal interviewers at the outset, but weekly diaries later are mailed in by each family.

Appraisal of Household Surveys

Household survey data are particularly useful in studying variations in food consumption and dietary levels at a given time, according to such socioeconomic variables as income level, urbanization, and region. They are valuable to: (1) Nutritionists and home economists as a basis for educational programs and for the derivation of food budgets; (2) market analysts for indicating the location of present and potential markets for individual commodities; and (3) economists who are concerned with income, price, and consumption relationships among substitutable commodities. These survey data are also useful in developing weights for price and quantity indexes of food items.

Household coverage has varied among surveys of the Departments of Labor and Agriculture. Although BLS surveys of income and expenditures have covered all urban households--including nonhousekeeping households--detailed food data pertain only to housekeeping households. All USDA surveys have referred to housekeeping households. The 1948 survey covered only urban households of two or more persons, whereas the 1955 survey included one-person and rural farm and nonfarm households as well.

Problems of comparability of data among surveys arise when changes are made from one survey to another. To meet changing objectives and needs, changes have been made from one survey to another in household coverage, definitions, and tabulations. For example, home-canned fruits and vegetables were classified with commercially canned items in the report on spring 1942 data, but the 1955 survey reports included them with fresh supplies; bacon and other pork fat cuts were included with fats and oils in 1942, but with meats in 1955.

Most household surveys have been conducted during the spring of the year, which may result in marked seasonality problems for such foods as fresh fruits and vegetables.

Analysis of findings from most household surveys of food consumption

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also must take into account these facts: (1) Data may reveal irregularities in consumption patterns, market structure, and prices which are peculiar to the particular period. (2) Adjustments for meals eaten away from home are made on a pro rata basis. Such adjustment introduces biases when there are notable differences between the kinds of foods eaten away from home and at home. (3) Unknown and reporting errors combine both improvements in sampling and collection methods and increased difficulties in obtaining cooperation because of the unavailability of household members and increased variety of foods eaten. (4) Time periods between surveys have been too long for some purposes. Because of the mass of data, analyses typically take an additional several years to complete. More current surveys based on smaller stratified samples would be useful as complements to annual disappearance data.

Differences between family survey and disappearance data prevent close comparisons: (1) The surveys are limited to housekeeping households, so use by institutions is excluded. (2) As yet, no comprehensive survey data are available for food consumed away from home and in institutions. The 1965 survey of food intake of individuals will provide the first data on kinds and amounts of foods eaten away from home. However, the problem of converting to comparable products will remain. (3) Survey data collected at one time of the year may make direct comparisons with disappearance data meaningless for some commodities because of seasonality of consumption. (4) Surveys report foods in the form in which they enter the kitchen, whereas many of the disappearance data report food in an unprocessed or partially processed state. For example, in family surveys bread consumption is reported, but disappearance data report only consumption of flour, fat, sugar, and other bread ingredients.

In providing data on the nutritive value of food consumed, household surveys face many of the same problems as the disappearance type of measurement. Nutritive value of diets still must be computed in terms of the quantities of foods brought into the kitchen. Hence, losses from household waste and preparation of food should be subtracted before the nutritive value of diets can be compared with such yardsticks as the Recommended Dietary Allowances. Research on household discard of food still is in an early stage (2).

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CHAPTER 9. PRICES, EXPENDITURES, AND POPULATION

Some of the major complementary data series used in analysis of the per capita food consumption trends are given in this chapter. Included are BLS retail food price indexes, by commodity group; food expenditures and their relation to disposable income; and population data used in deriving the per capita food consumption estimates.

Retail Food Price Indexes

BLS publishes retail food price indexes monthly as components of the Consumer Price Index (CPI) (81). The indexes reflect the importance of various foods in the expenditure pattern of urban wage earners and clerical workers. This group currently makes up over half the urban population and about 40 percent of the U. S. total. A few of the major commodity components of the index of food purchased for home use are available for as early as 1913 (table 95). However, food purchased and consumed in restaurants and other away-from-home eating places has been priced only since 1953.

Beginning with January 1964, the Consumer Price Index (CPI) was revised to reflect a more up-to-date expenditure pattern, to incorporate improvements in statistical procedures, and to broaden coverage of the sample on which it was based (21, 23, 60, 99, 100). In essence, a new index was begun. Basically, the same computational procedure, employing a comparison of price relatives, was used. Its purpose remains that of measuring changes in prices, not cost of living.

The latest revision was based on a consumer expenditure survey conducted in 66 cities in 1960-61. Expenditure patterns were found to have changed considerably since the previous survey conducted in 1950, upon which the 1953 CPI revision was based (102). Because of the current revision, the importance of food in the CPI dropped from 28 percent of the total in December 1963 to 22 percent in January 1964 (table 96). Food away from home gained in importance; all of the decline took place in food purchased for use at home.

Previously, the CPI reflected only expenditures of families of urban wage earners and clerical workers that consisted of two or more persons with annual incomes of less than $10,000. The revised weighting diagram was broadened to include expenditures of single workers and to eliminate the upper income limit. Sample pricing was expanded from 46 to 50 cities; 6 more will be added in 1966 (22). For the first time, the new sample of 1,525 food stores is located in suburbs as well as in central cities. As before, visits are made to food stores on Tuesdays, Wednesdays, and Thursdays--the same day each month for a given store. Special sale prices are recorded when found.

For the first time, probability sampling and weighting were used as much as practical in the revision. Two replicated samples were drawn so that statistical errors could be associated with the index. Items were divided into 52 "expenditure classes," 15 of which were food groups. Items within expenditure classes that accounted for a large percentage of the class were preselected and weighted according to their importance in the 1960-61 survey. The remaining items, selected on a probability basis, bore equal weights within a class. This procedure resulted in carrying over only about two-thirds of the food items from the old to the new series. This lack of continuity, changes in coverage, and new weighting may affect future price trends of individual foods and food groups.

Analyses of quarterly consumption rates require associated retail food prices. Monthly prices from BLS are published without regard for seasonality. Seasonal factors have been published for 28 food items by month for the June 1953-May 1961 period (table 97) (21, 85). They were derived from a weighted average of prices following an iterative procedure that yielded estimates of secular, seasonal, and irregular components of the price trend.

Food Expenditures

Since per capita food consumption has been estimated by commodities and

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Table 95.--Retail food price indexes and Consumer Price Index, 1913-63

(Index, 1957-59=100)

Year and month	Food at home 1/												Food away from home 6/	All food	Consumer Price Index
	Meat, poultry, and fish			Total	Eggs	Dairy products 4/	Fats and oils 5/	Fruits and vegetables	Cereal and bakery products	Sugar and sweets	Beverages	Total			
	Meat 2/	Poultry 3/	Fish												
1913	---	---	---	26.5	---	40.2	---	---	30.7	---	---	34.1	---	33.6	34.5
1914	---	---	---	27.4	---	39.0	---	---	32.7	---	---	34.9	---	34.3	35.0
1915	---	---	---	26.4	---	38.7	---	---	37.3	---	---	34.4	---	33.9	35.4
1916	---	---	---	28.6	---	41.5	---	---	38.9	---	---	38.7	---	38.1	38.0
1917	---	---	---	36.3	---	51.3	---	---	57.2	---	---	49.8	---	49.1	44.7
1918	---	---	---	45.8	---	61.7	---	---	59.6	---	---	57.2	---	56.4	52.4
1919	---	---	---	43.9	---	71.0	---	---	60.7	---	---	63.9	---	62.9	60.3
1920	---	---	---	49.2	---	74.5	---	---	71.2	---	---	71.9	---	70.8	69.8
1921	---	---	---	41.9	---	60.2	---	---	59.1	---	---	54.6	---	53.8	62.3
1922	---	---	---	39.9	---	54.6	---	---	48.9	---	---	51.1	---	50.3	58.4
1923	---	---	---	39.5	82.0	59.4	82.4	67.2	48.1	84.7	36.1	52.8	---	52.0	59.4
1924	---	---	---	40.0	83.8	56.9	87.6	63.2	48.9	76.9	40.6	52.3	---	51.5	59.6
1925	---	---	---	43.4	91.2	58.8	97.4	73.3	52.9	60.2	46.8	56.6	---	55.8	61.1
1926	---	---	---	46.0	89.4	58.4	94.7	83.5	52.8	58.0	46.8	58.5	---	57.6	61.6
1927	---	---	---	45.9	80.2	60.0	86.8	72.8	51.7	61.4	44.9	56.4	---	55.5	60.5
1928	---	---	---	48.1	82.7	60.2	83.8	63.9	50.2	59.4	45.4	55.8	---	54.9	59.7
1929	---	---	---	49.6	86.6	60.1	83.1	67.0	49.1	55.2	45.3	56.5	---	55.6	59.7
1930	---	---	---	46.5	73.1	59.5	77.8	70.3	47.6	51.8	39.4	53.7	---	52.9	58.2
1931	---	---	---	39.4	57.7	47.2	62.7	49.8	41.7	47.9	34.2	44.2	---	43.6	53.0
1932	---	---	---	30.9	49.6	39.0	46.5	41.0	37.7	43.3	30.9	36.8	---	36.3	47.6
1933	---	---	---	26.9	47.0	38.0	43.4	45.1	38.6	45.5	23.1	35.8	---	35.3	45.1
1934	---	---	---	30.8	53.4	41.7	49.9	47.2	44.9	47.3	29.6	39.9	---	39.3	46.6
1935	38.0	65.7	28.3	39.0	62.8	44.7	72.1	39.5	46.5	48.7	28.6	42.8	---	42.1	47.8
1936	37.3	69.5	28.4	38.6	62.2	46.6	67.2	41.5	45.9	48.1	27.3	43.1	---	42.5	48.3
1937	40.2	72.3	29.1	41.3	61.0	48.3	69.1	42.7	47.1	48.8	28.5	44.8	---	44.2	50.0
1938	37.0	71.9	29.2	38.6	60.5	47.7	61.1	36.9	45.6	47.3	26.3	41.7	---	41.0	49.1
1939	36.5	64.5	29.1	37.7	54.8	44.0	57.3	37.5	43.1	48.6	26.3	40.5	---	39.9	48.4
1940	37.7	65.2	31.9	37.4	56.6	46.5	53.7	38.3	44.2	46.8	25.4	41.1	---	40.5	48.8
1941	40.2	70.2	36.0	42.0	67.6	51.4	61.4	40.9	44.6	51.4	27.9	44.9	---	44.2	51.3
1942	46.3	84.4	47.0	49.1	82.2	57.5	78.2	51.9	43.0	61.1	33.6	52.3	---	51.9	56.8
1943	47.0	100.9	59.6	50.2	97.5	61.7	82.4	66.9	49.1	61.4	34.3	58.8	---	57.9	60.3
1944	44.5	103.8	59.9	50.7	92.8	61.3	80.5	66.7	49.5	61.1	34.2	58.0	---	57.1	61.3
1945	44.0	106.2	62.7	51.2	99.0	61.4	81.0	70.1	50.0	61.1	34.3	58.3	---	58.4	62.7
1946	57.0	119.6	68.2	63.9	101.7	75.7	99.4	72.2	57.0	69.5	38.4	68.0	---	66.9	68.0
1947	81.1	146.0	78.3	84.8	121.0	85.4	129.0	79.0	70.9	86.9	51.3	82.5	---	81.3	77.8
1948	92.2	139.7	90.3	96.2	125.8	93.9	127.7	81.3	78.0	84.0	56.3	89.6	---	88.2	83.8
1949	86.7	131.7	90.7	91.1	121.2	85.6	96.9	82.4	77.5	85.2	60.7	86.1	---	84.7	83.0
1950	91.4	126.1	88.0	96.1	104.7	84.7	94.2	79.0	78.8	86.9	85.9	87.1	---	85.8	83.8
1951	103.6	132.1	101.6	106.3	127.4	94.5	110.3	86.3	86.0	90.1	94.7	96.9	---	95.4	90.5
1952	102.6	132.6	99.0	105.3	116.3	98.5	93.5	94.8	88.1	90.9	95.3	98.6	---	97.1	92.5
1953	99.8	129.3	96.3	99.6	123.2	96.8	93.9	91.8	89.8	91.9	97.9	96.8	89.3	95.6	93.2
1954	96.2	116.7	96.8	97.9	103.1	93.7	98.9	90.5	91.9	93.8	116.3	96.3	90.9	95.4	93.6
1955	87.7	121.6	98.9	93.1	106.5	93.6	95.9	91.8	93.4	95.8	104.2	94.4	91.8	94.0	93.3
1956	84.8	106.7	98.8	88.0	105.9	96.0	98.0	96.3	94.7	93.6	108.9	94.8	93.6	94.7	94.7
1957	94.2	103.6	99.0	96.4	100.9	98.8	102.4	96.0	98.4	96.3	108.1	97.9	97.1	97.8	98.0
1958	104.9	101.6	101.6	104.4	106.1	100.3	101.2	102.8	100.4	100.7	100.5	102.2	100.0	101.9	100.7
1959	101.0	93.7	104.4	100.6	92.9	101.0	96.9	101.2	101.2	102.9	91.3	99.7	102.8	100.3	101.5
1960	99.7	95.0	103.9	99.1	100.1	103.2	90.1	103.8	103.2	103.4	90.7	100.6	105.5	101.4	103.1
1961	100.5	87.8	10 .8	99.3	100.1	104.8	98.6	104.2	103.4	101.4	90.7	101.5	107.8	102.6	104.2
196	102.5	90.7	110.2	101.7	94.6	104.1	98.5	105.0	107.6	101.4	89.3	102.2	110.7	103.6	105.4
1963	100.9	89.3	110.8	100.7	96.0	103.8	95.7	111.0	109.1	110.1	90.4	103.5	113.2	105.1	106.7

1/ Indexes prior to 1947 computed by Economic Research Service.
2/ Beef, veal, lamb and mutton, pork, and processed meat.
3/ Chicken is only item included.
4/ Includes butter.
5/ Excludes butter.
6/ Data not collected prior to 1953.

Bureau of Labor Statistics.

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Table 96.--Relative importance of Consumer Price Index components, new and old series, December 1963

Components	New series		Old series 1/	
	Percent of all items	Percent of major groups	Percent of all items	Percent of major groups
All items	100.00	---	100.00	---
Food	22.43	100.00	28.18	100.00
Food at home	17.89	79.76	23.11	82.01
Meats	4.45	19.84	5.21	18.49
Fish	.45	2.01	.56	1.99
Poultry	.73	3.25	.66	2.34
Eggs	.64	2.85	1.01	3.58
Dairy products	2.80	12.48	3.81	13.52
Fats and oils	.55	2.45	.80	2.84
Fresh fruits	.76	3.39	1.53	5.43
Fresh vegetables	.94	4.19	1.38	4.90
Processed fruits and vegetables	1.32	5.89	1.55	5.50
Cereals	.80	3.57	.98	3.48
Bakery products	1.65	7.36	2.29	8.13
Sugar and sweets	.64	2.85	1.00	3.55
Nonalcoholic beverages	1.01	4.50	1.30	4.61
Prepared and partially prepared foods	1.15	5.13	1.03	3.65
Food away from home	4.54	20.24	5.07	17.99
Housing	33.23	100.00	30.71	100.00
Shelter	20.15	60.64	18.34	59.72
Rent	5.50	16.55	6.16	20.06
Hotel and motel rates	.38	1.14	---	---
Homeownership	14.27	42.95	12.18	39.66
Fuel and utilities	5.26	15.83	4.91	15.99
Fuel oil and coal	.73	2.20	1.21	3.94
Gas and electricity	2.71	8.15	2.11	6.87
Other utilities	1.82	5.48	1.59	5.18
Household furnishings and operation	7.82	23.53	7.46	24.29
Furniture	1.44	4.33	1.55	5.05
Appliances	1.36	4.09	1.71	5.57
Other	5.02	15.11	4.20	13.67
Apparel and upkeep	10.63	100.00	10.58	100.00
Men's and boys'	2.86	26.91	2.79	26.37
Women's and girls'	4.08	38.38	3.67	34.69
Footwear	1.51	14.20	1.41	13.33
Other apparel	2.18	20.51	2.71	25.61
Transportation	13.88	100.00	11.65	100.00
Private	12.64	91.07	9.98	85.67
Public	1.24	8.93	1.67	14.33
Health and Recreation	19.45	100.00	18.03	100.00
Medical care	5.70	29.30	5.88	32.61
Personal care	2.75	14.14	2.27	12.59
Reading and recreation	.94	30.54	5.57	30.89
Other goods and services	5.06	26.02	4.31	23.91
Miscellaneous 2/	.38	---	.85	---
Special groups:				
Commodities	65.97	100.00	67.73	100.00
Durable	18.78	28.47	17.53	25.88
Nondurable	47.19	71.53	50.20	74.12
Services	34.03	100.00	32.27	100.00

1/ Individual items reclassified according to new series classification. 2/ Not actually priced; imputed to priced items.

Compiled from the Bureau of Labor Statistics.

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Table 7.--Indexes of seasonal retail price variation for selected food products

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Standard deviation
All food	99.5	99.5	99.5	100.1	100.1	100.8	101.2	100.3	100.2	100.0	99.6	99.5	0.2
Food at home	99.4	99.3	99.4	100.1	100.1	101.0	101.4	100.4	100.2	100.0	99.5	99.4	.2
Meats, poultry, and fish	98.8	99.0	99.3	100.3	100.5	101.5	102.2	101.3	100.8	99.5	98.4	98.1	.3
Meats	98.7	98.5	98.6	99.9	100.3	101.7	102.1	101.5	101.2	100.0	98.7	98.3	.4
Beef and veal	99.8	99.8	99.8	100.8	100.8	100.6	100.7	99.9	99.9	99.7	99.0	98.9	.4
Round steak	99.4	99.3	99.3	100.6	100.6	100.7	101.1	100.5	100.6	100.2	99.3	98.8	.4
Pork	97.5	97.1	97.1	99.1	100.1	102.9	104.2	103.6	102.7	100.4	97.8	97.1	.7
Pork chops, center cut	96.6	95.5	95.9	98.7	98.7	103.9	105.5	103.4	103.9	101.9	99.1	96.4	.9
Ham, whole	100.3	99.4	99.9	99.4	100.6	101.9	102.1	101.3	99.3	98.3	97.8	100.1	.6
Lamb, leg	98.7	98.3	99.1	100.7	101.0	103.0	101.8	99.8	99.9	99.5	99.6	98.8	.6
Poultry, frying chickens	98.7	101.5	103.7	103.1	101.5	101.5	103.7	101.1	99.0	95.7	95.8	95.1	.6
Fish	100.4	100.6	100.2	100.4	100.2	99.8	99.7	99.6	99.4	99.6	99.8	100.0	.1
Fish, fresh or frozen	100.6	101.1	100.6	100.5	100.4	99.8	99.5	99.2	99.3	99.4	99.9	99.9	.2
Eggs	101.1	96.6	95.9	93.7	89.5	88.0	94.9	100.8	111.0	112.0	110.0	106.5	1.7
Dairy products	100.8	100.6	100.1	99.3	98.8	98.5	99.1	99.6	100.5	101.0	100.9	101.0	.1
Milk, fresh (grocery)	101.0	100.8	100.3	98.8	98.2	97.8	98.9	99.7	100.8	101.3	101.5	101.4	.1
Butter	100.4	100.0	99.7	99.5	99.2	99.0	98.8	98.8	100.4	101.1	101.2	101.6	.3
Cheese, American process	100.8	100.8	100.5	100.0	99.8	99.8	99.8	99.3	99.3	99.5	99.8	100.1	.1
Fruits and vegetables	98.1	98.6	99.0	102.1	103.5	107.2	105.0	99.7	96.8	96.6	96.7	97.1	.6
Fresh fruits and vegetables	97.3	98.1	98.6	103.3	105.4	111.0	107.6	99.3	94.8	94.6	94.8	95.6	1.0
Apples	88.3	90.9	95.0	102.8	112.4	129.6	134.4	105.4	93.7	81.7	80.7	85.4	1.1
Bananas	101.1	99.6	98.9	95.0	97.1	100.5	97.0	100.4	101.0	106.6	101.9	100.9	1.1
Oranges	90.6	90.5	92.0	97.0	97.3	100.8	104.6	106.3	109.6	110.7	105.5	94.6	1.5
Lemons	104.7	102.6	101.0	99.1	98.3	95.6	95.1	95.4	99.3	100.9	103.1	105.0	.8
Peaches	---	---	---	---	---	---	104.3	93.7	102.0	---	---	---	1.9
Strawberries	---	---	---	115.9	97.6	86.5	---	---	---	---	---	---	1.9
Grapes, seedless	---	---	---	---	---	---	129.0	93.2	85.9	93.5	98.5	---	2.1
Watermelons	---	---	---	---	---	135.8	87.2	77.0	---	---	---	---	2.3
Potatoes	95.2	97.2	98.9	106.6	111.5	113.5	115.9	101.9	90.2	87.0	89.9	92.0	2.6
Sweetpotatoes	95.0	97.6	99.5	100.2	104.3	110.5	118.4	118.8	94.1	85.5	85.9	90.3	1.0
Onions	91.8	97.5	106.3	115.9	115.3	109.9	107.2	103.2	92.3	86.5	86.4	87.5	3.4
Carrots	103.6	98.0	95.2	94.3	95.3	99.5	103.9	105.4	101.7	100.4	100.1	102.7	1.2
Cabbage	113.1	112.9	108.8	106.4	109.8	102.1	93.7	87.7	86.7	88.7	88.9	101.3	2.6
Tomatoes	119.4	113.2	113.0	122.4	122.1	102.6	91.5	69.4	64.0	77.1	89.2	116.1	4.1
Beans, green	119.6	132.4	123.5	110.4	104.5	81.4	79.9	74.3	80.8	86.9	101.9	104.4	4.5
Shortening, hydrogenated	100.2	98.7	99.2	100.1	100.1	100.0	100.5	100.7	100.5	99.6	99.9	100.3	.3

Compiled from Seasonal Factors, Consumer Price Index: Selected Series, June 1953-May 1961 Bureau of Labor Statistics Bul. No. 1366, May 1963.

retail prices are available, one would think food expenditures could be derived for individual commodities. Some rough approximations can be made, but many shortcomings are involved in the procedure. Consumption estimates are on a retail-weight-equivalent basis and prices are those paid in retail food stores. A large part of all food consumed is not marketed through food stores, but total food expenditures must cover all food sold. Little information is available on prices of food sold through other outlets, and quantities of food marketed by outlet are not known. A survey of the industry currently is under way that will help solve this problem. All foods are not priced by BLS. In addition, retail prices and consumption estimates often are specified or classified differently. In order to weight the per capita food consumption index with corresponding retail prices in the 1957-59 base period, a sizable research project was necessary. Such price estimation is not feasible on a current basis.

Food expenditure data commonly used are a component of total personal consumption expenditures of the national income accounts. In 1963, food expenditures defined on this basis accounted for 19 percent of disposable personal income. These primary data are published annually by the Department of Commerce (table 98: 95, 96). No commodity detail is available from these data because of the "commodity-flow" method of derivation. To avoid duplication in the income accounts, reported food expenditures omit the following items: (1) Meals served patients in hospitals and persons living in institutions; (2) food distributed free by Government agencies; (3) meals served by airlines, ships, camps, and other agencies when separate charges are not made for food; (4) meals charged as business expenses.

Total expenditures for food and alcoholic beverages are reported by the Department of Commerce in four separate categories: (1) Food and beverages purchased for off-premise consumption; (2) purchased meals and beverages; (3) food furnished to certain commercial and Government employees, including the military; and (4) food consumed on farms where produced (table 99). Expenditures for alcoholic beverages and for food are published separately. However, there is no breakdown given between food and beverages purchased for off-premise consumption, nor between purchased meals and beverages for on-premise consumption.

Expenditure data are based on information for manufactured foods and alcoholic beverages from the Census of Manfactures; for nonmanufactued farm foods indirectly from ERS estimates of volume of farm marketings and home consumption used in farm income calculations; for fresh and frozen fish from the Bureau of Commercial Fisheries; and for exports and imports from foreign trade statistics of the Department of Commerce.

Civilian expenditures for food originating on U. S. farms are computed by the Marketing Economics Division of ERS as part of its marketing bill statistics, and are published regularly in the Marketing and Transportation Situation (30). These estimates of expenditures are in terms of prices actually paid, and implicitly include most of the food not included in the Commerce series. Expenditures (or value) of the following foods are not included: (1) Imported foods, such as coffee, tea, cocoa, bananas, spices, and imported sugar; (2) fish and other seafoods; (3) food consumed on farms where produced; and (4) food furnished by the Government to the Armed Forces. U. S. farm food expenditures currently are not available on a commodity basis, but research is underway to provide such estimates. The total represents the farm value and the total marketing bill for U. S. farm foods. Civilian expenditures for U. S. farm foods accounted for 16.5 percent of disposable income in 1963: The farm value for 5.3 percent, and the total marketing bill for 11.2 percent (table 98). The farm value accounted for 32 percent of total U. S. farm food expenditures in 1963.

Population

Estimates of the U.S. population for January 1, and July 1, 1909 to 1963,

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Table 8.--Food expenditures related to disposable income, 1909-63

Year	Disposable personal income		Personal consumption expenditures					U. S. civilian expenditures for foods originating on U. S. farms 3/					
			Total expenditures		Expenditures for food 2/			Civilian expenditures		Farm value		Total marketing bill	
	Total 1/	Per capita	Total 1/	Per capita	Total	Per capita	Percent of disposable personal income	Total	Percent of disposable personal income	Total	Percent of disposable personal income	Total 4/	Percent of disposable personal income
	Bil.dol.	Dol.	Bil.dol.	Dol.	Bil.dol.	Dol.	Pct.	Bil.dol.	Pct.	Bil.dol.	Pct.	Bil.dol.	Pct.
1909	28.5	315	28.5	315	---	---	---	---	---	---	---	---	---
1910	30.6	327	30.6	327	---	---	---	---	---	---	---	---	---
1911	30.8	323	30.2	322	---	---	---	---	---	---	---	---	---
1912	33.0	346	32.4	340	---	---	---	---	---	---	---	---	---
1913	34.8	358	34.0	350	---	---	---	---	---	---	---	---	---
1914	34.7	350	33.3	336	---	---	---	---	---	---	---	---	---
1915	32.0	318	31.8	316	---	---	---	---	---	---	---	---	---
1916	43.4	426	38.8	380	---	---	---	---	---	---	---	---	---
1917	52.2	505	45.1	436	---	---	---	---	---	---	---	---	---
1918	58.3	557	49.5	473	---	---	---	---	---	---	---	---	---
1919	66.3	631	58.8	559	---	---	---	---	---	---	---	---	---
1920	69.7	654	64.5	606	---	---	---	---	---	---	---	---	---
1921	56.1	508	56.3	519	---	---	---	---	---	---	---	---	---
1922	59.6	541	58.0	527	---	---	---	---	---	---	---	---	---
1923	69.0	616	64.5	576	---	---	---	---	---	---	---	---	---
1924	69.6	610	68.0	596	---	---	---	---	---	---	---	---	---
1925	73.7	636	70.3	607	---	---	---	---	---	---	---	---	---
1926	76.4	651	74.0	630	---	---	---	---	---	---	---	---	---
1927	76.7	645	73.7	619	---	---	---	---	---	---	---	---	---
1928	78.7	656	76.8	637	---	---	---	---	---	---	---	---	---
1929	83.1	682	79.0	648	19.5	160	23.5	16.9	20.3	7.2	8.7	9.7	11.6
1930	74.4	604	71.0	577	18.0	146	24.2	16.3	21.9	6.4	8.6	9.9	13.3
1931	63.8	515	61.3	495	14.7	119	23.1	13.3	20.8	4.7	7.4	8.6	13.4
1932	48.7	390	49.3	395	11.4	91	23.4	10.9	22.4	3.4	7.0	7.5	15.4
1933	45.7	364	46.4	369	10.9	86	23.7	10.9	23.9	3.6	7.9	7.3	16.0
1934	52.0	411	51.9	411	12.2	96	23.4	12.1	23.3	4.3	8.3	4/7.5	14.4
1935	58.3	459	56.3	443	13.6	107	23.4	12.6	21.6	5.0	8.6	4/7.3	12.5
1936	68.2	537	62.6	489	15.2	119	23.0	14.0	21.1	5.8	8.8	8.2	12.3
1937	71.0	551	67.3	522	16.4	127	23.1	14.1	19.9	6.0	8.4	8.1	11.5
1938	65.7	506	64.6	498	15.6	120	23.8	13.6	20.7	5.2	7.9	8.4	12.8
1939	70.4	538	67.6	516	15.7	120	22.3	13.8	19.6	5.2	7.4	8.6	12.2
1940	76.1	576	71.9	544	16.7	127	22.0	14.7	19.3	5.6	7.4	9.1	11.9
1941	93.0	697	81.9	614	19.4	146	20.9	17.0	18.3	7.1	7.6	9.9	10.7
1942	117.5	871	89.7	665	23.7	176	20.2	21.0	17.9	9.3	7.9	11.7	10.0
1943	133.5	977	100.5	735	27.8	204	20.8	23.8	17.8	11.4	8.5	4/12.6	9.4
1944	146.8	1,060	109.8	794	30.6	221	20.9	24.4	16.6	11.6	7.9	4/13.3	9.1
1945	150.4	1,075	121.7	870	34.1	244	22.7	26.8	17.8	12.6	8.4	4/14.9	9.9
1946	160.6	1,136	147.1	1,040	40.7	288	25.3	33.5	20.9	15.7	9.8	4/18.3	11.4
1947	170.1	1,181	165.4	1,148	45.8	318	26.9	39.4	23.2	18.7	11.0	20.7	12.2
1948	189.3	1,291	178.3	1,216	48.2	329	25.4	42.2	22.3	19.3	10.2	22.9	12.1
1949	189.7	1,271	181.2	1,214	46.4	311	24.5	40.8	21.5	16.9	8.9	23.9	12.6
1950	207.7	1,369	195.0	1,286	47.4	313	22.8	41.5	20.0	17.6	8.5	23.9	11.5
1951	227.5	1,474	209.8	1,360	53.4	346	23.5	46.4	20.4	20.0	8.8	26.4	11.6
1952	238.7	1,520	219.8	1,400	55.8	356	23.4	48.1	20.2	19.8	8.3	28.3	11.9
1953	252.5	1,582	232.6	1,458	56.6	355	22.4	48.3	19.1	19.1	7.6	29.2	11.5
1954	256.9	1,582	238.0	1,466	57.7	355	22.4	48.4	18.8	18.4	7.1	30.0	11.7
1955	274.4	1,660	256.9	1,554	59.2	358	21.6	50.3	18.3	18.3	6.7	32.0	11.6
1956	292.9	1,742	269.9	1,605	62.2	370	21.3	52.4	17.9	18.7	6.4	33.7	11.5
1957	308.8	1,803	285.2	1,665	65.2	381	21.1	54.7	17.7	19.5	6.3	35.2	11.4
1958	317.9	1,826	293.2	1,684	67.4	387	21.2	57.6	18.1	20.8	6.5	36.8	11.6
1959	337.1	1,904	313.5	1,770	68.1	384	20.2	59.2	17.5	20.0	5.9	39.2	11.6
1960	349.9	1,976	328.2	1,816	69.7	386	19.9	61.2	17.5	20.7	5.9	40.5	11.6
1961	364.7	1,934	337.3	1,835	71.0	387	19.5	62.7	17.2	20.9	5.7	41.8	11.5
1962	384.6	2,060	356.8	1,911	73.9	396	19.2	64.2	16.7	21.5	5.6	42.7	11.1
1963 5/	402.5	2,125	375.0	1,980	76.0	401	18.9	66.4	16.5	21.4	5.3	46.0	11.2

1/ Estimated 1909-28 by the Economic Research Service, 1929 to date from U. S. Department of Commerce.
2/ From U. S. Department of Commerce. Excludes alcoholic beverages.
3/ Computed by Economic Research Service. Excludes data for Alaska and Hawaii. This series omits imported foods, fish and other seafoods, home-produced food, and food furnished the Armed Forces; it implicitly includes the value of the following items omitted from the Commerce food expenditure series: Meals charged as a business expense, meals served patients in hospitals and persons living in institutions, food distributed free by Government agencies, and meals served by airlines, camps, and other agencies that do not make separate charges for food.
4/ Difference between civilian expenditures and farm value except that Federal processor taxes have been deducted for 1933-35 and allowances for Federal Government payments to processors have been added for 1943-46.
5/ Preliminary.

Table 99.--Personal consumption expenditures for food and alcoholic beverages, 1929-63

Year	Food and alcoholic beverages					Alcoholic beverages	Food	
	Purchased for off-premise consumption	Purchased meals and beverages 1/	Food furnished commercial and Government employees 2/	Produced and consumed on farms	Total		Expenditures	Change from previous year
	Mil.dol.	Mil.dol.	Mil.dol.	Mil.dol.	Mil.dol.	Mil.dol.	Mil.dol.	Pct.
1929	14,777	2,911	257	1,590	19,535	0	19,535	---
1930	13,500	2,788	245	1,431	17,964	0	17,964	-8.0
1931	10,833	2,541	198	1,159	14,731	0	14,731	-18.0
1932	8,203	2,102	160	917	11,382	0	11,382	-22.7
1933	8,626	1,816	155	927	11,524	665	10,859	-4.6
1934	10,757	2,248	185	992	14,182	2,000	12,182	+12.2
1935	12,150	2,610	214	1,213	16,187	2,555	13,632	+11.9
1936	13,929	2,985	236	1,270	18,420	3,175	15,245	+11.8
1937	14,792	3,528	271	1,288	19,879	3,465	16,414	+7.7
1938	14,082	3,392	247	1,167	18,888	3,270	15,618	-4.8
1939	14,163	3,633	254	1,114	19,164	3,420	15,744	+.8
1940	14,954	3,974	278	1,134	20,340	3,600	16,740	+6.3
1941	17,089	4,738	470	1,336	23,633	4,185	19,448	+16.2
1942	20,328	5,865	933	1,661	28,787	5,080	23,707	+21.9
1943	22,586	7,392	1,677	2,021	33,676	5,840	27,836	+17.4
1944	24,503	8,472	2,398	2,043	37,416	6,775	30,641	+10.1
1945	26,689	10,063	2,753	2,096	41,601	7,485	34,116	+11.3
1946	33,332	11,709	1,349	2,628	49,018	8,360	40,658	+19.2
1947	38,677	11,939	1,023	2,766	54,405	8,620	45,785	+12.6
1948	40,312	11,996	1,021	2,732	56,061	7,900	48,161	+5.2
1949	39,198	11,686	1,000	2,228	54,112	7,680	46,432	-3.6
1950	40,351	11,749	1,076	2,062	55,238	7,790	47,448	+2.2
1951	44,610	12,936	1,632	2,329	61,507	8,060	53,447	+12.6
1952	46,935	13,419	1,769	2,246	64,369	8,530	55,839	+4.5
1953	47,834	13,722	1,650	2,035	65,241	8,610	56,631	+1.4
1954	49,145	13,766	1,478	1,824	66,213	8,500	57,713	+1.9
1955	50,591	14,371	1,292	1,688	67,942	8,700	59,242	+2.6
1956	53,308	15,062	1,198	1,666	71,234	8,990	62,244	+5.1
1957	55,852	15,596	1,218	1,658	74,324	9,140	65,184	+4.7
1958	58,212	15,694	1,244	1,449	76,599	9,210	67,389	+3.4
1959	58,759	16,456	1,210	1,254	77,679	9,605	68,074	+1.0
1960	60,029	17,054	1,236	1,181	79,500	9,840	69,660	+2.3
1961	61,501	17,357	1,299	1,105	81,262	10,215	71,047	+2.0
1962	64,007	18,236	1,347	1,007	84,597	10,665	73,932	+4.1
1963 3/	65,843	18,963	1,342	949	87,097	11,080	76,017	+2.8

1/ Comprises purchases of meals and beverages from retail, service and amusement establishments, hotels, dining and buffet cars, schools, school fraternities, institutions, clubs, and industrial lunchrooms, including tips. 2/ Food served to the military and employees of hospitals, State prisons, hotels and other commercial food service establishments, and firms engaged in water transportation. 3/ Preliminary.

Source: Department of Commerce, July issues of Survey of Current Business, early years in U. S. Income and Output, 1958 and National Income, 1954.

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used in computing per capita consumption rates, are shown in table 100. Population in 48 States was used through 1959; a 50-State basis was used for 1960-63. Because data on military food takings before 1941 were not available, estimates of per capita consumption for that period were based on total domestic food disappearance and total population, including members of the Armed Forces overseas. For 1941 to date, data on military takings for most commodities were deducted from total domestic consumption; the per capita figures were thus based on estimates of the population eating out of civilian food supplies.

In computing per capita food consumption, population estimates as of July 1 were used when food consumption estimates related to calendar-year periods. January 1 population estimates were used for a few commodities carried on other than a calendar year when that date was closer to the midpoint of the crop year.

The population eating out of civilian food supplies is defined as the civilian population residing in the 50 States, except during World War II. Estimates of the population eating out of civilian food supplies from January 1, 1941, through January 1, 1946, were larger than Census estimates of the civilian population because of an adjustment for members of the Armed Forces consuming civilian supplies (for example, military personnel on furlough). Since January 1, 1946, it has been assumed that consumption by these Armed Forces personnel is approximately balanced by civilians consuming military supplies.

Both series of population estimates are based on estimates provided by the Bureau of the Census. Basic estimates for July 1 from 1909-39 and for January 1 and July 1 since 1940 have been published in Statistical Abstract of the United States (73), and Current Population Reports (76).

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Table 100.--Population, 48 and 50 States: Total and number eating out of civilian food supplies, United States, 1909-64 1/

Year	Total, including Armed Forces overseas		Year	Total including Armed Forces overseas		Number eating out of civilian supplies 2/	
	January 1	July 1		January 1	July 1	January 1	July 1
	Millions	Millions		Millions	Millions	Millions	Millions
1909	89.7	90.5					
1910	91.5	92.4	1940	131.5	132.1	---	---
1911	93.2	93.9	1941	132.8	133.4	132.0	131.8
1912	94.7	95.3	1942	134.2	134.9	132.3	131.5
1913	96.4	97.2	1943	135.9	136.7	129.8	128.9
1914	98.2	99.1	1944	137.7	138.4	128.8	128.6
1915	99.9	100.5	1945	139.2	139.9	128.7	129.1
1916	101.3	102.0	1946	140.7	141.4	134.5	138.4
1917	102.7	103.4	1947	142.8	144.1	140.9	142.6
1918	104.0	104.6	1948	145.5	146.6	144.1	145.2
1919	104.8	105.1	1949	148.0	149.2	146.4	147.6
1920	105.7	106.5	1950	150.6	151.7	149.0	150.2
1921	107.6	108.5	1951	153.1	154.3	150.7	151.0
1922	109.4	110.1	1952	155.8	157.0	152.2	153.3
1923	111.1	112.0	1953	158.4	159.6	154.9	156.0
1924	113.1	114.1	1954	161.1	162.4	157.7	159.1
1925	115.0	115.8	1955	164.0	165.3	160.7	162.3
1926	116.7	117.4	1956	166.8	168.2	163.9	165.4
1927	118.3	119.0	1957	169.8	171.3	167.0	168.4
1928	119.8	120.5	1958	172.7	174.1	170.1	171.5
1929	121.2	121.8	1959	175.7	177.1	173.1	174.5
			48 States				
1930	122.5	123.1	1960	178.6	179.9	176.1	177.4
1931	123.6	124.0	1961	181.5	183.0	179.0	180.4
1932	124.5	124.8	1962	184.5	185.8	181.6	183.0
1933	125.2	125.6	1963	187.2	188.5	184.5	185.8
1934	126.0	126.4	1964	190.0	191.2	187.2	188.5
			50 States 3/				
1935	126.9	127.2	1960	179.4	180.7	176.8	178.2
1936	127.7	128.1	1961	182.3	183.8	179.8	181.2
1937	128.5	128.8	1962	185.3	186.7	182.5	183.8
1938	129.4	129.8	1963	188.2	189.4	185.4	186.6
1939	130.4	130.9	1964	190.8	192.1	188.1	189.3

1/ Estimates of the Bureau of the Census, not adjusted for underenumeration. In computing per capita food consumption, the population for the date closer to the midpoint of the year concerned was used (e.g., for consumption data on a calendar-year basis, July 1 population was used). Beginning 1941, data on military takings for most commodities were deducted from total domestic consumption and per capita figures were computed using the series for population eating out of civilian supplies; data on military takings prior to 1941 were not available.

2/ Estimates computed from data supplied by several Federal agencies. For the period January 1, 1941, through January 1, 1946, an adjustment was made to allow for members of the Armed Forces eating out of civilian supplies; these adjustments were originally estimated by OPA on the basis of data from several official sources. Beginning July 1946 data are the civilian population estimates of the Bureau of the Census.

3/ Includes Hawaii and Alaska. Unless otherwise indicated, data in this handbook include information from these States beginning 1960.

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