CENSUS OF AGRICULTURE: 1940

INTRODUCTION

This volume presents all available information from the 1940 Census of Agriculture relative to the value of farm products. The nature of the value items included on the 1940 Census Farm and Ranch Schedule, the type of tabulations made, and the arrangement of the material in this volume, all result from the growing demand for more comprehensive statistics relative to farm income for small geographic areas.

The value statistics included in this volume may be classified broadly under two general heads, viz., "calculated values," and "enumerated values." The two series of figures serve basically different purposes and should not be confused.

The calculated value statistics are presented in State table 18 and county table XVI. The values in these tables, with certain exceptions noted below, were secured by multiplying the reported figures on livestock inventories and crop and livestock production by unit prices. Such statistics represent, for the most part, total value, or what has sometimes been called "farm value." They do not approximate gross farm income, much less cash farm income, since no deductions have been made for the value of products used by farm households, for seed, for waste, or for the value of crops fed on the farm where produced, which latter is duplicated in the livestock income of that farm. On the other hand, the value of byproducts, except cottonseed, peanut hay, and redtop hay, is not included. Neither is the value of annual legumes grazed or hogged off included in the calculated value of crops harvested. For livestock products the calculated values do not always fully represent the value of production. For example, the values for dairy products relate, except in the case of butter churned, to quantities sold and not to the total production including milk used by farm households and milk taken by calves or otherwise fed on the farm. Again, the values for livestock butchered and livestock sold do not represent the value of livestock production since they make no allowance for changes in inventory numbers.

The enumerated value statistics are presented in State table 19 and county tables XVII to XX, inclusive, and are here referred to as the "value of farm products sold, traded, or used by farm households." These statistics were obtained by enumeration, and represent the totals of individual farm reports for the ten value of products questions on the 1940 Farm and Ranch Schedule. When the value of products used by farm households is included in the totals, as it has been in this volume, these value statistics may be used, with certain limitations noted below, as one approximate measure of gross farm income.

The enumerated statistics relating to value of products sold, traded, or used by farm households were tabulated in three different ways: First, by geographic areas geographic, by total value of products per farm; and third, by major source of income. The results of the first or geographic area tabulation are shown in county table XVIII, which gives information on the number of farms reporting and the value for each of the principal products or groups of products (sources of income), with comparable figures from the 1930 Census there included.

For 1930, only the number of farms is available for each of the income size groups. County table XX shows not only the total value of products sold, traded, or used by farm households for each income size group, but also the number of farms reporting and the value for each of the principal sources of income under each income size group.

State table 18 and county table XIX present the results of the tabulation by major source of income. Here the farms are classified according to the major (single largest) source of income. The number of farms reporting and the value, for each of the ten sources of income under each major source or type group, are shown in State table 18, while in county table XIX similar figures are given for the principal sources of income under each major source group. Since the 1940 major source tabulation is not strictly comparable with the 1930 type of farm tabulation, the 1930 figures by type of farm are shown in Table 19 for reference purposes only. A discussion of the differences in method of classification, 1940 and 1930, is given below under the heading "Major source of income and type of farm."

For the 1930 Census the statistics relating to value of livestock on farms on the census date and value of crop and livestock production were published in volume III for Agriculture (parts 1, 2, and 3), entitled, Reports by States, with Statistics for Counties and a Summary for the United States. The 1930 Census figures on value of farm products sold, traded, or used by operator's family were published in volume III for Agriculture (parts 1, 2, and 3), entitled, Type of Farm, Reports by States, with Statistics for Counties and a Summary for the United States. The 1930 volume III presented type of farm tabulations by counties for farm land; value of specified farm property; receipts from boarders, lodgers, etc.; specified livestock and livestock products; specified farm expenditures; number of farms by size; and number of farms by value of products, in addition to the value of products figures shown for 1930 in this volume.

GENERAL DEFINITIONS AND EXPLANATIONS

A farm.—The schedule form for 1940 was entitled "Farm and Ranch Schedule." This title was followed by a subtitle "including special agricultural operations." The following definition appeared on each schedule:

A farm, for Census purposes, is all the land on which some agricultural operations are performed by one person, either by his own labor or by that of members of his household, or hired employees. The land operated as a farm may be offered or rented. A farm is considered a farm. A "farm" may consist of a single tract of land, or a number of separate tracts, and the several tracts may be held under different tenures, as when one tract is owned by the farmer and another tract is rented by him. When a landowner has one or more tenants, renters, croppers, or managers, the land operated by each is considered a farm. Thus the operation of the land operated by each cropper, tenant, or manager should be reported as a separate farm, and each farm owner or manager of the separate farms should be reported as the owner or manager of each farm.

Include dry-land farms, nurseries, greenhouses, hatcheries, fish farms, mushroom cellars, apiaries, cranberry bogs, etc. Exclude "fish farms," "fish hatcheries," "oyster farms," and "frog farms."

Do not report as a farm any tract of land of less than 5 acres, unless its agricultural products in 1939 were valued at $500 or more.

In the enumerator's handbook the following instruction was given:

The definition of a farm found on the face of the schedule must be carefully studied by the enumerator. Note that for tracts of land of 3 acres or more the $500 limitation for value of agricultural products does not apply. Such tracts, however, must have some agricultural operations performed in 1939, or contemplated in 1940. A schedule must be prepared for each farm, even an establishment which meets the requirements set up in the definition. A schedule must be filled out for all tracts of land on which some agricultural operations were performed in 1939, or are contemplated in 1940, which might possibly meet the minimum requirements of a "farm." When in doubt, always make out a schedule.

Farming, or agricultural operations, consists of the production of crops or plants, vines, and trees (excluding forestry operations) or of the keeping, grazing, or feeding of livestock for animal products (including eggs), animal increase, or commercial purposes. Livestock, as here used, includes poultry of all kinds, cattle, hogs, bee, and fur-bearing animals in captivity, in addition to mules, asses, horses, mares, cattle, sheep, goats, and hogs. Frequently, certain operations are not generally recognized as farming. This is especially true where no crops are grown or where the establishments are not commonly considered as farms.

VIII
A partial list of types of specialized agriculture and of operations not generally recognized as farming but for which Farm and Ranch Schedules were required was provided. This list included such operations as apiaries (bee farms), feed lots, greenhouses, hothouses, mushroom houses, and fur-bearing animals.

Farms operator.—A "farm operator," according to the Census definition, is a person who operates a farm, either performing the labor himself or directly supervising it. For all practical purposes, the number of farm operators is identical with the number of farms.

Feeding animals.—The term "farming, reporting," as used in the tables, indicates the number of farms for which the specified items shown in the particular table were reported. If there were 1,922 farms in a county and only 1,486 had dairy products sold or traded during 1939, and the enumeration of that item was complete, the number of farms reporting value of dairy products sold or traded for 1939 would be 1,486.

Livestock and livestock products.—For convenience, the term "livestock" in the Census Reports is used to include not only domestic animals such as horses, mules, cattle, swine, sheep, and goats, but also fur-bearing animals kept in captivity, poultry, and bees. It follows, then, that the term "livestock products," should include production from the above classes.

In the value tabulations in this volume there is one important exception to this general usage. In State tables 10 and county tables XVII, XIX, and XX the term "livestock sold or traded" excludes poultry, bees, and fur-bearing animals.

In making comparisons between the various census years for any particular class of livestock shown in the accompanying tables, several points should be kept in mind, two of which are:

(1) It is characteristic for some classes of livestock to change in numbers between years through rather definite cycles, i.e., from a low point to a high point and back again over a period of years. These cycles often follow price relationships. A census taken every 5 years might fall at different points of the cycle and thus interfere with the determination of long-term trends. Cyclical changes have an effect on the volume of production.

(2) A variation in the months of enumeration seriously affects the comparability of the statistics for most kinds of livestock, again making it difficult to determine the trend in numbers between census periods. As noted in text table A, the 1940 and 1930 Censuses were taken as of April 1; the 1925, 1926, and 1929 Censuses as of January 1; and the 1910 Census as of April 1. As a result, rapid changes are being placed in the same class of livestock due to decreases from farm slaughter, doatings, and marketings during this three-month period and to increases due to births and purchases. The net effect of these influences cannot be readily appraised. As a country as a whole, April 1 is in the midst of the season when colts, calves, lambs, spring pigs, and other livestock are born. In some parts of the country, a census on that date would include many young animals; in other parts, it would include relatively few for such animals; and in still other parts, varying proportions would be included. For this reason and because of the necessity of limiting the number of inquiries, those responsible for the 1940 census schedule thought it best that all recently-born animals should be excluded from enumeration.

A change of date from January 1 to April 1 may seriously affect comparability in enumeration of migratory sheep in the western States. January 1 will usually find such sheep on the winter range, but April 1 may find them in a different county or even a different State, en route to or on the spring-fall range. The instructions to the enumerators were that sheep on open range be enumerated where the ranch headquarters were located.

The inquiries for 1940 were so worded that, when considering young animals and poultry, inclusions were made for horse and mule colts and calves over 3 months of age, pigs and kids (goat) over 4 months of age, lambs over 6 months of age, and poultry over 4 months of age, on the farm at the time of the enumeration. Because of the varying age groups included in the different census years, text table A shows the age groups to which the value data refer.

In theory, a change in the date of the enumeration should have little effect on the volume of production reported for the previous calendar year. However, experience indicates that, when accurate records of production are not kept, daily production of milk and eggs taken at the time of the enumeration does affect the total volume reported for a year. This means that a census of milk and egg production taken near the peak of production in April, for the previous year, would tend to give somewhat higher figures than a census taken in January which is near the low point.

Crops.—The 1940 Farm and Ranch Schedule was prepared in such a manner that every crop grown on tracts of land listed as farms should have been enumerated. The crop inquiries were varied in different sections of the country so that separate questions could be carried for all crops widely grown in each major area. If a separate inquiry was not carried for a particular crop, that crop could be reported under one of several "catch-all" questions on the schedule. By using a different schedule for each region it was also possible to use the unit of measure that was most prevalent in an area for reporting production.

For definitions and explanations of the individual livestock and crop items, see chapters VII, VIII, and IX of volume III.

TOTAL VALUE OF LIVESTOCK ON FARMS AND OF LIVESTOCK PRODUCTS AND CROPS HARVESTED

For each agricultural census prior to 1950, the statistics relating to the value of the livestock inventory and the total value of livestock and crop production were enumerated figures. For the 1950 Agricultural Census, the values for the livestock inventory and for livestock products were enumerated but the values for most crops were calculated by counties using State average unit values for each crop. For the 1956 and succeeding agricultural censuses, values were calculated for the livestock inventory and for livestock products, as well as for crops, but the method of calculation has varied. In the 1955 Agricultural Census, the values were calculated by counties, for most items; average unit values established for crop-reporting districts (groups of contiguous counties). For the 1956 Agricultural Census values were calculated by States only, using State average unit values. In the 1950 and 1940 Agricultural Censuses, the values were calculated by counties for various items, using, for most items, county average unit values. The county unit values used in calculating total value of livestock on farms and total value of livestock products and crops harvested for the 1940 Census, as well as for the preceding censuses mentioned above, were obtained cooperatively by the Agricultural Statistics Division, Agricultural Marketing Service, Department of Agriculture and the Bureau of the Census.

Not all of the values for the 1940 Census shown in State table 10 and county table XVI are calculated values. For four items values were enumerated instead of production, because of the difficulty of finding a common production unit for purposes of enumeration. These four items are: Vegetables for sale, vegetables for farm household use, horticultural specialties, and forest products.

The following points should be observed in connection with the 1940 Census values presented in State table 10 and county table XVI enumeration.

Domestic animals.—The values for all species except goat represent the sum of the calculated values of individual age or sex groups. For goats the value is the sum of the calculated values for Angora goats and other goats.

Unspecified poultry.—Where the kind of poultry could not be identified, the unit value used was based on a weighted average of the unit values for identified kinds of other poultry in the same county and surrounding counties.

Dairy products.—The value of whole milk sold includes the value of fluid sales of cream. The value of cream sold includes both the value of sales of sweet cream and the value of sales of sour cream (butterfat).

4 Crops.—This item includes the value of the following crops: Oats for grain; sorghums for grain; and all wheat, rye, oats, barley, emmer and spelt, buckwheat, rice, and "mixed" grains threshed (or combined).
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### Table A: Age, Sex, and Other Groups Enumerated for Various Classes of Livestock, 1940; With Approximately Comparable Groups, 1890 to 1935

<table>
<thead>
<tr>
<th>Item</th>
<th>1940 (April 1)</th>
<th>1935 (January 1)</th>
<th>1930 (January 1)</th>
<th>1925 (January 1)</th>
<th>1920 (April 10)</th>
<th>1920 (June 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horses and/or males—farms reporting</td>
<td>Over 5 yr. old.</td>
<td>All ages.</td>
<td>All ages.</td>
<td>All ages.</td>
<td>All ages.</td>
<td>All ages.</td>
</tr>
<tr>
<td>Number of live hogs</td>
<td>Over 5 yr. old.</td>
<td>All ages.</td>
<td>Over 5 yr. old.</td>
<td>Under 2 yr. old.</td>
<td>Under 2 yr. old.</td>
<td>Under 2 yr. old.</td>
</tr>
<tr>
<td>Sheep and lambs—farms reporting</td>
<td>Over 600.00</td>
<td>All ages.</td>
<td>Over 600.00</td>
<td>All ages.</td>
<td>Over 600.00</td>
<td>All ages.</td>
</tr>
<tr>
<td>Goats and kids—farms reporting</td>
<td>Over 600.00</td>
<td>All ages.</td>
<td>Over 600.00</td>
<td>All ages.</td>
<td>Over 600.00</td>
<td>All ages.</td>
</tr>
<tr>
<td>Chickens—farms reporting</td>
<td>Over 600.00</td>
<td>All ages.</td>
<td>Over 600.00</td>
<td>All ages.</td>
<td>Over 600.00</td>
<td>All ages.</td>
</tr>
<tr>
<td>Number</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
</tr>
<tr>
<td>For animals in captivity;</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
</tr>
<tr>
<td>Number</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
<td>All ages.</td>
<td>Over 12 yr. old.</td>
</tr>
</tbody>
</table>

*Not available.*
Other grains and seeds.—The 1940 and 1940 Census figures for this item include flax threshed, annual legumes harvested for seed, alfalfa seed, clover and grass seeds, mustard seed, sugar beet seed, sunflower seed, hempseed, castor beans, and miscellaneous seeds. Flower and vegetable seeds, other than those specified above, were included under horticultural specialties in the 1940 Census. In the 1950 Census the value of flowering and vegetable seeds grown on farms was included under the value of "other grains and seeds," while receipts from sales of flower and vegetable seeds in 1950 by nurseries, greenhouses, etc., were included under sales of horticultural specialties.

Hay and forage.—The 1940 figures for this item include the value for four crops not specifically covered by the 1890 figures. These crops are silage crops other than corn and sorghum; oats cut and fed unthreshed; and root and grain crops (other than corn and annual legumes) hoggard or grazed off. Two of these items—silage crops other than corn and sorghum, and root and grain crops hoggard or grazed off—could be reported only under the "other field crops" question on the 1940 General Farm Schedule. The figures on root and grain crops hoggard or grazed off exclude root crops hogsessed for food, which were tabulated as a separate item under this group in both 1940 and 1930. All of the above four items, except silage crops other than corn and sorghum, were reported on an acreage basis only, and the values for the 1940 Census were calculated by using "per acre" unit values. As previously noted the 1940 figures for hay and forage do not include the value of annual legumes hoggard or grazed off.

Cottonseed.—For the 1930 Census the production of cottonseed was enumerated, but the 1940 Farm and Ranch Schedule did not include this item. Consequently, production of cottonseed in 1939 was calculated by counties on the basis of the enumerated production of cotton lint (1939), and the values were secured by multiplying the calculated production of cottonseed by the county unit price.

Fruits and nuts.—The 1940 calculated value of production of citrus fruits is based upon county unit prices which represent the equivalent packing-house door returns for all methods of sale. For the other fruits and nuts the 1940 figures were calculated by using county unit prices based on weighted averages for all methods of sale.

All other crops.—The value of maple syrup and maple sugar produced is included in the value shown for this item. Since the 1940 Census enumerated value of forest products sold includes the value of maple syrup and maple sugar sold, there is a partial duplication of values between these two items. For crops of very limited distribution, the values were secured by correspondence with the growers. Where the kind of crop could not be identified, the value was based on a weighted average "per acre" unit value for identified minor crops in the same county and surrounding counties.

The value of products information was secured in considerably more detail than in 1930 when the general farm schedule carried the following six value of products questions:

Value of grains, cotton, tobacco, hay, vegetables, fruits, plums, flowers, and all other crops grown in 1939 which were or are to be sold or traded.

Value of livestock sold or traded in 1939.

Value of milk, cream, butter, butterfat, meat, poultry, eggs, honey, wool, shavers, and other livestock products sold or traded in 1939.

Value of forest products sold in 1939.

Value (estimated) of products of this farm in 1939 that were used by your family.

Gross receipts from lodgers, boarders, and campers in 1939.

The arrangement of the value questions on the schedule was also changed materially. In 1950 all six value questions were carried in a single block; on the 1940 Farm and Ranch Schedule the ten value questions were distributed among the various crop and livestock questions, each value question following the crop or livestock questions upon which the value figure was based.

It will be noted that, in general, the value questions relating to livestock and livestock products, horticultural specialties, farm products used by farm households, and forest products apply to the calendar years 1939 and 1939; whereas the value questions for field crops, vegetables harvested for sale, and fruit crops are on a crop-year basis. That is, the values apply to quantities sold or to be sold or traded from crops harvested in 1939 and in 1939. One exception to the calendar year definition occurs in connection with the 1940 question on "other livestock products." Another exception to the crop-year definition occurs in connection with citrus fruit. These exceptions are discussed in detail below.

Farms with no farm products sold, traded, or used by farm households.—The numbers of farms shown for this classification in county tables XVII and XVIII represent farms for which there was a correct report of no products sold, traded, or used by farm households in 1939. These farms generally fall into one of two categories: farms being brought into operation in the spring of 1940, or farms having a complete crop failure in 1939 for which there was also no income from livestock production in 1939 and no value for products used by farm households. This classification also includes a limited number of farms for which the only value of products reported was receipts from the rental of pasture. Where the value of products directly relates to a specific item, it was necessary to classify such farms as having no farm products sold or traded, inasmuch as there was no value of products question on the 1940 Farm and Ranch Schedule under which rental from pasture could logically be included. In the 1950 Census the pasture rental on such farms was considered as income derived from crops. The "Flint Hills" of east central Kansas was one area in which this situation occurred.

Unclassified farms.—Where the figures on crop and livestock production and values were incomplete, the farm was placed in the "unclassified" category. In most cases these were farms on which the operator had moved between the time the 1939 crops were harvested and the time the census enumerator visited the farm. In 1929 this category also included farms that were not enumerated in 1929, as well as greenhouses, nurseries, and apiaries.

Farms reporting total value of farm products sold, traded, or used by farm households.—For 1939 this represents all farms for which there were usable reports on value of products, but excludes reports for farms with no products sold, traded, or used by farm households. In other words, the number of farms reporting total value of products and the unclassified farms, plus farms with no farm products sold, traded, or used by farm households equals all farms enumerated as of the census date. In 1959 the number of farms reporting for this item includes all farms classified by type regardless of whether or not any farm products were sold, traded, or used by farm households. For example, if a farm reported a complete
the farm was classified according to the type represented by the crop failures. The 1969 count of farms reporting total value of farm products sold, traded, or used by farm homes, includes, therefore, some farms which, in the 1939 tabulation, were placed in the category of farms with no farm products sold, traded, or used by farm households.

Dairy products.—As previously shown, this question called for the value of all dairy products sold or traded in 1969. The question specified milk, cream, butter, and cheese. The enumerator was instructed to explain if byproducts, such as butter milk or skimmed milk, were sold which would give a high value for sales in relation to the quantities of whole milk, cream, and butter solids as reported in the blank immediately preceding this value question. The value of cheese or products sold was not to be included under this question, but was to be reported under 'other livestock products.' The value of dairy products purchased for resale was to be excluded, both from this value question and from the preceding items on quantities of whole milk, cream, and butter sold.

Livestock.—This value question followed immediately two livestock questions relating to the numbers of cattle, calves, hogs and pigs, and sheep and lambs bought and sold in 1969. It also should be noted that the question specified, 'except poultry, bees, and fur animals.' The enumerator was instructed to explain if animals, other than the kinds listed in the preceding questions, were sold, the intention being that the value question should also cover sales of other kinds of livestock such as horses, mules, and goats. In handling the reports on this question, records were kept between livestock dealers and livestock feeders. Purchases and sales were included in the totals where other information on the schedule indicated that the operator had sufficient feed, either home-grown or purchased, or had sufficient pasture to add to the market value of the livestock. The statistics for this item represent, therefore, the totals of individual farm sales regardless of whether or not the animals were produced on the farm for which the sale was reported. Hence they are not directly comparable with livestock income figures based upon a State as a unit. This point is discussed in more detail below.

Poultry and poultry products.—As previously noted, hatcheries were included in the list of types of specialized agriculture for which Farm and Ranch Schedules were required and the enumerator was instructed to explain whenever the value entry for this question appeared high as a result of sales of baby chicks, eggs, hatching eggs, etc. Schedules for State game farms are included. Quail, pheasants, and other game birds raised by such institutions for release were considered as sold.

Other livestock products.—The term 'Other livestock products' is used in this volume to indicate the miscellaneous livestock products question, the wording of which was as follows: 'Value of wool, mohair, meat, hides, etc., bees, honey, wax, and fur animals and pelts sold or traded in 1969.' The value of goat milk and products sold, as well as the value of other miscellaneous livestock products sold, was included under this item. Although the wording of the question indicated that values for sales during the calendar year were desired, the following instruction was given in the enumerator's handbook:

Value was the value of goat milk and products sold as well as the value of wool, mohair, meat, hides, etc., bees, honey, wax, and fur animals and pelts sold or traded in 1969. Also report the value of bees and wax produced in 1969.

The value of meat sold applies to animals butchered by persons on farms, or to persons on a custom basis, either on or off the farms referred to as 'local slaughter,' are not included in these figures.

Field crops.—This question covers the value of the sales of field crops such as corn, sorghums, small grains, annual and biennial vegetables, and miscellaneous crops such as tobacco, sugarcane, sugar beets, broccoli, tomatoes, potatoes, and beans. In addition, the enumerator was instructed to include the value of sales of byproducts, such as greenhouse, best pulp and tops, peas, beans, etc., although no provision was made for reporting the production of such byproducts on the schedule. On some schedules the value of sales of byproducts apparently was not included in the value of field crops sold or traded. The enumerator was also instructed that where the farm operator was a tenant, the landlord's share should be included in reporting the value of sales, not only for the crop item, but also for all other value of products questions. No provision was made for reporting government benefit payments made under programs administered by the Agricultural Adjustment Administration of the Department of Agriculture. However, crops upon which government loans had been secured were considered as sold unless they had been redeemed before the date of the census enumeration.

Vegetables for sale.—The values reported for this item represent a summation for each individual farm of the values reported for individual vegetable crops harvested in 1969 for sale. Irish potatoes and sweet potatoes were included under vegetables, but were included under field crops. The 1969 Census value figures shown for vegetables for sale in State tables and county tables XII, XIX, and XX exclude the figures for unclassified forms, while those shown in State table 18 and county tables XII (volume 1) and XVI include data for all other crops reporting vegetables.

Horticultural specialties.—The values reported for this item also represent a summation for each individual farm of the values reported for three items, viz., crops grown under glass and propagating mushrooms; nursery products; and flower and vegetable seeds, bulbs, and flowering plants grown in the open. The figures for horticultural specialties shown in State table 19 and county tables XVII, XIX, and XX exclude the values reported by unclassified farms as well as the figures for all other crops reporting area but no sales in 1969. The figures on horticultural specialties shown in State table 18 and county tables XIII (volume 1) and XV include all farms reporting vegetables.

Fruit and nut crops.—In general the figures reported for this question cover the values of all fruits and nuts produced in 1969 that had been or were to be sold at the time of the census enumeration. However, in Arizona and California, the value information on citrus fruit applies to the 1969-70 season; that is, to the crop harvested in 1969-70 from the beginning of the season. For all other citrus-producing States, the value of sales of citrus fruit applies to the 1968-69 season; that is, to sales of the crop harvested in 1969-70 from the beginning of the season. The value figures on fruit cover all tree fruits, nuts, and grapes, including small fruits and citrus. The values of sales of wild fruits and nuts are excluded with two exceptions: Wild blueberries were to be reported on the census schedule where the land was used primarily for their production; and wild or seeded pecans were reported wherever grown in orchards, farmyards, pastures, or elsewhere on the farm or ranch. The enumerator was instructed that, for all the value of products questions, gross receipts or values were desired without deductions for expenses of any kind. However, in the case of fruit, there was a noticeable tendency in some fruit areas for growers to report their net receipts instead of the gross value of all fruit sold or traded. This particularly true in areas where certain marketing costs were commonly deducted from the payments to the grower for fruit sold. Another factor which may have contributed to this tendency to report net receipts for fruit crops was the absence of any questions on the schedule regarding expenditures for such items as spray materials, orchard cultivation, irrigation systems, and other production and marketing costs. In compiling the reported values of fruits and nuts sold with the calculated value of fruits and nuts harvested, allowance must also be made for the difference in definition of unit price previously noted.

Farm products used by farm households.—As above mentioned this question asked for the value of products of the farm in 1969 that were used by the operator's family and all households on the farm. The instructions to enumerators called attention to the fact that this question referred to the products of farms consumed by the operator's family, regardless of whether living on the farm or not, as well as the
value of products consumed by all other households on the farm. The question for this group was broader, therefore, than in 1930 when the corresponding question asked for the value of the products of the farm in 1920 that were used by the operator’s family. In both 1940 and 1930 the following items were listed individually under the schedule: Meat, milk, eggs, butter, cheese, eggs, honey, vegetables, fruit, and firewood. The 1940 Farm and Ranch Schedule also specified fuel wood. Farm products of institutional farms which were used by inmates of the institution were classified as sold, and the value was included under the other nine values of products items. The same procedure was followed with respect to products of community and relief gardens.

**Forest products.**—The 1940 Census question included value of sales of firewood, fuel wood, standing timber, saw logs, veneer logs, pulpwood, mine props, tanbark, charcoal, fence posts, railroad ties, poles and piling, turpentine, resin, maple syrup and sugar, etc. Not all of these items were individually listed on the 1930 Census schedule, one notable exception being maple syrup and sugar.

**Receipts from lodgers, boarders, and campers.**—This question was included in the 1920 General Farm Schedule, but not on the 1940 Farm and Ranch Schedule. The values for this item were not included in the 1930 total value of farm products but were tabulated separately.

### Major Source of Income and Type of Farm

As previously mentioned, the figures from the 1940 Agricultural Census on value of farm products sold, traded, or used by farm households were tabulated by major source of income. In the 1930 Agricultural Census, the corresponding value tabulation was by type of farm. The two tabulations are not strictly comparable, but the 1930 value of products figures by type of farm are shown in State table 19 for reference purposes.

In making the tabulation by major source of income for the 1940 Census, the schedules for farms reporting farm products sold, traded, or used by farm households were sorted into ten major source groups corresponding to the ten value of products questions. The basis for this classification was the largest value of products entered. If the entries for two or more of the ten value of products questions were exactly the same, the farm was classified according to the item predominating as to major source in that locality. The procedure was, therefore, purely objective. It was possible for a sheep ranch to be classified with "livestock" as the major source of income or with "other livestock products" as the major source of income, depending upon the comparative gross receipts from sales of sheep and from sales of wool on that ranch in 1939. Similarly, a wheat farm, on which the 1939 wheat crop was a complete failure, should be classified as a subsistence farm, with the largest value entry that for farm products used by farm households.

In the 1930 Census the value of products sold, traded, or used by farm households was used primarily in determining the type of farm, but the methods employed were necessarily more subjective than those used in connection with the 1940 Census. In the 1930 Census the farms were classified into thirteen types (including the "unclassified" group), while the "abnormal" group was further divided into five subtypes. For each of the major types, the sales of the major product (or group of products) had to represent 40 percent or more of the total value of all products of the farm before the farm was classified under that particular type.

### 1900 Census Classification of Farms by Principal Source of Income and Value of Products

A somewhat similar plan of tabulation was used in the 1900 Census of Agriculture when the farms were classified according to principal sources of income. The United States figures on gross farm income for 1899 for farms classified by principal source of income are shown in text table 8.

### Table B.—Farms Reporting and Value of Farm Products Not Fed to Livestock on Farms Where Produced, Classified by Twelve Principal Sources of Income, for the United States, 1899

<table>
<thead>
<tr>
<th>Classification</th>
<th>Number</th>
<th>Per cent of total</th>
<th>Total</th>
<th>Average per farm</th>
</tr>
</thead>
<tbody>
<tr>
<td>All groups</td>
<td>5,787,872</td>
<td>100.0</td>
<td>1,782,130,337</td>
<td>302</td>
</tr>
<tr>
<td>Farms with principal source of income from:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Livestock</td>
<td>1,664,018</td>
<td>28.7</td>
<td>1,182,556,228</td>
<td>708</td>
</tr>
<tr>
<td>Dairy products</td>
<td>670,444</td>
<td>11.6</td>
<td>375,240,870</td>
<td>556</td>
</tr>
<tr>
<td>Hay and grain</td>
<td>612,014</td>
<td>10.7</td>
<td>603,960,577</td>
<td>756</td>
</tr>
<tr>
<td>Cotton</td>
<td>513,640</td>
<td>8.9</td>
<td>234,681,105</td>
<td>402</td>
</tr>
<tr>
<td>Sugar</td>
<td>406,500</td>
<td>6.9</td>
<td>60,908,000</td>
<td>152</td>
</tr>
<tr>
<td>Vegetables</td>
<td>254,000</td>
<td>4.4</td>
<td>103,600,000</td>
<td>403</td>
</tr>
<tr>
<td>Tobacco</td>
<td>234,681</td>
<td>4.1</td>
<td>103,600,000</td>
<td>443</td>
</tr>
<tr>
<td>Flowers and plants</td>
<td>214,000</td>
<td>3.7</td>
<td>70,320,000</td>
<td>328</td>
</tr>
<tr>
<td>Nursery products</td>
<td>214,000</td>
<td>3.7</td>
<td>10,808,186</td>
<td>5071</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>1,059,000</td>
<td>18.6</td>
<td>665,798,000</td>
<td>630</td>
</tr>
</tbody>
</table>

1 Less than one-tenth of 1 percent.

The following explanation of the classification procedure followed is taken from the text of the 1900 Agriculture Census Report:

"The basis for this classification is the value of the specified crops or products of 1899. If the value of the hay and grain raised on any farm exceeded that of any other crop or combination at least 40 percent of the value of the products not fed to livestock, the farm was designated a 'hay and grain' farm. If vegetables were the leading crop, constituting 40 percent or more of the value of all products, the farm was designated a 'vegetable' farm. All others were designated 'miscellaneous' farms those whose operators did not derive their principal income from any one class of farm products. Those with no income in 1899 were classified according to the agricultural operations upon other farms in the same locality."

In the 1900 Census of Agriculture, the farms were also classified according to the amount of gross farm income in 1899, gross farm income here being defined as the value of farm products not fed to livestock on farms where produced. The United States figures on farms reporting and value of farm products for this tabulation are shown in text table C.

### Table C.—Farms Reporting and Value of Farm Products, Classified by Value of Farm Products Not Fed to Livestock on Farms Where Produced, for the United States, 1899

<table>
<thead>
<tr>
<th>Value-group</th>
<th>Number</th>
<th>Percent of total</th>
<th>Value of farm products</th>
</tr>
</thead>
<tbody>
<tr>
<td>All groups</td>
<td>6,717,872</td>
<td>100.0</td>
<td>2,748,229,267</td>
</tr>
<tr>
<td>0 to $10</td>
<td>45,585</td>
<td>0.7</td>
<td>4,658,262</td>
</tr>
<tr>
<td>$1 to $10</td>
<td>676,697</td>
<td>10.2</td>
<td>50,927,705</td>
</tr>
<tr>
<td>$11 to $100</td>
<td>605,446</td>
<td>8.9</td>
<td>50,551,200</td>
</tr>
<tr>
<td>$101 to $500</td>
<td>1,067,855</td>
<td>15.8</td>
<td>125,900,000</td>
</tr>
<tr>
<td>$501 to $1,000</td>
<td>1,367,911</td>
<td>20.5</td>
<td>150,910,000</td>
</tr>
<tr>
<td>$1,001 to $2,000</td>
<td>1,578,150</td>
<td>23.4</td>
<td>225,649,000</td>
</tr>
<tr>
<td>$2,001 to $5,000</td>
<td>1,400,000</td>
<td>20.5</td>
<td>240,500,000</td>
</tr>
<tr>
<td>$5,001 to $10,000</td>
<td>1,000,000</td>
<td>14.7</td>
<td>1,050,000,000</td>
</tr>
</tbody>
</table>

1 Value of farm products not fed to livestock on farms where produced.
CENSUS OF AGRICULTURE: 1940

It should be observed that the 1900 Census definition of gross farm income is not strictly comparable with that employed in the 1940 and 1960 enumerations. Such an income figure includes, theoretically at least, the value of crops used for seed or raised on the farm, the value for which is excluded under the 1940 and 1960 definitions. Furthermore, the 1900 Census figure on value of livestock sold represents only the value of sales of animals raised on the farm. In other words, the value of sales for purchased animals is excluded.

The 1940 Census figures on value of farm products by States and geographic divisions, together with a detailed explanation of the classification procedure followed and a reproduction of the schedule used will be found in the report of the Twelfth Decennial Census, 1940, volume V, Agriculture, part I.

INTERPRETATION OF THE STATISTICS

Definition.—In general the statistics on total value of farm products sold, traded, or used by farm households represent an approximate measure of gross farm income. If the value of farm products used by farm households is excluded from the total, the resulting figures on value of farm products sold or traded represent an approximation of cost farm income. The user of these value statistics should keep in mind, however, that there are, theoretically at least, three basic types of figures on income from agricultural production in the United States:

1. United States farm income figures calculated on the basis of all farms in the United States as a unit. Interfarm sales, both within States and between States, would be excluded.

2. United States farm income figures calculated from farm income figures for individual States. Interfarm sales within States would be excluded, but interfarm sales between States would be included.

3. United States farm income figures representing an aggregate of the income for individual farms. Interfarm sales, both within States and between States, would be included.

The statistics on value of farm products sold, traded, or used by farm households, presented in this volume, clearly belong under the third classification. The duplication of income caused by the inclusion of interfarm sales is an important item, particularly in livestock feeding areas.

Unclassified farms.—As has been pointed out previously, the tabulations of value of farm products sold, traded, or used by farm households, for both 1940 and 1960, exclude the value of products for the "unclassified" farms. The extent of this incompleteness is shown, both in number of farms and in percent of all farms, in county table XVII.

Net income.—The figures on specified farm expenditures, shown in county table X (volume I) should not be deducted from the figures on value of products sold, traded, or used by farm households in an attempt to arrive at statistics on "net" income. As was pointed out in connection with the statistics on value of fruits and nuts sold or traded, census figures are not available for many important farm expenditure items. The cost of livestock purchased is also an important item in calculating "net" income.

Nonagricultural income.—Income from nonagricultural sources is not included in the figures on farm income for either the 1940 or 1960 Census enumerations. Because of the growth of part-time farming, in recent years, nonagricultural income is an important item when comparisons are made involving the economic position of the individual farm rather than farming as an industry.

Government benefit payments.—As mentioned above, there was no provision on the 1940 Farm and Ranch Schedule for reporting the amount of government benefit payments. On some schedules where sugarbeets or sugar beets were reported, there was evidence that the reported value of crops sold or traded included the government payment on sugar beets or sugar beets. In general, however, such payments appear to have been excluded from the figures on value of farm products sold, traded, or used by farm households.