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## TAKING THE CENSUS

## Method of Enumeration

The 1978 Census of Agriculture was the first census to include a mailout/mailback enumeration supplemented by a thorough direct interview of all households in a sample of area segments. This combination list-direct enumeration sample approach was instituted to improve completeness of coverage for State level agriculture census statistics.

In censuses prior to 1969, enumerators were assigned to a specific area and called on all farms within the area. Beginning with the 1950 census, copies of the report form were mailed prior to the enumeration date to each boxholder served by post offices in predominantly rural areas and farmers were asked to complete the forms and have them ready for the enumerator to pick up. Enumerators going door-to-door in rural areas collected and reviewed all forms that had been completed; they also completed forms for those places with agricultural operations which did not have forms ready.

For the 1969 and 1974 censuses, data were collected primarily by a self-enumeration, mailout/mailback procedure. This procedure was made possible by the availability of specialty lists and several administrative lists, including records from the prior agriculture census, from which a list of agriculture-related names and addresses was constructed.

The mailout/mailback enumeration procedure was not used in taking the agriculture census in Puerto Rico, Guam, the Virgin Islands, and the Northern Mariana Islands. A discussion of the direct enumeration methods used appears in the reports for these outlying areas.

### Mail List

The mail list for the 1978 census was comprised of all individuals, businesses, and organizations that could be readily identified as being associated with agriculture. The list was assembled from the records of the 1974 census and administrative records of various government agencies, primarily the Internal Revenue Service and the U.S. Department of Agriculture. The administrative lists used for 1978 were more accurate and extensive than those used for the 1974 and 1969 censuses. For 1978, most administrative lists were used in their entirety; whereas, for 1974 and 1969 some lists were sampled so that only selected records were included in the census mailing list.

Lists of large or specialized operations, such as nurseries, broiler growers, fish farms, and livestock range and feedlot operations, which might not be identified in other administrative records, were obtained from State and Federal agencies, trade associations, and similar organizations. Lists of multiestablishment companies having one or more establishments (or locations) producing agricultural products or providing agricultural services were obtained from the 1974 census and updated using results of the 1976 and 1977 Company Organization Surveys conducted by the Economic Surveys Division of the Census Bureau.

A preliminary census mail list was assembled using names and addresses from the 1974 census and administrative source lists available early in 1978. Those records identified as most likely not to be farms, since the name appeared on only one source list or on selected combinations of list sources which had yielded a low percentage of farm operators for the 1974 census, were then selected for inclusion in the 1978 Farm and Ranch Identification Survey. Slightly over 4 million of the short identification forms were mailed in May of 1978 to identify persons who were not active farm operators, to identify tenant and successor operators who were not on administrative source lists, and to update the name, address, and size information for the identified active farm operators. Approximately 1.9 million survey returns were classified as out-of-scope (nonfarms), and an additional 400,000 reports were returned by the Postal Service as being undeliverable, resulting in over 2.3 million names and addresses being deleted from the census mail list as a result of the 1978 Farm and Ranch Identification Survey. The final census mail list containing 4,241,000 names and addresses was developed using results of the 1978 Farm and Ranch Identification Survey, names and addresses from the unduplicated preliminary list that were retained without precensus verification, and new or updated source lists acquired after the preliminary unduplication.

The preliminary and final census mail lists were both constructed by merging and unduplicating the names and

addresses from the various source lists on the basis of Employer Identification numbers, Social Security numbers, and names and addresses. To facilitate processing, each name on the administrative source lists was assigned a geographic code indicating the State and county location of the operation and a size code indicating an estimated value of sales. Most duplicates were identified and resolved during computer processing; an additional group of possible duplicates identified during computer processing was resolved clerically. Other duplicate names not identified prior to mailing were either reported by respondents or located during office processing.

## **Direct Enumeration Area Sample**

When the evaluation survey conducted for the 1974 census confirmed the results of the evaluation survey for 1969 (i.e., an unacceptable number of midsize and a larger number of smaller farms were not included in the mail list), the decision was made to incorporate into the 1978 data collection procedures a direct enumeration area sample to provide State level estimates of the number and statistical characteristics of farms found not to be included in the mail list. The effect of this combination mail list-direct enumeration sample approach has been to drastically reduce the number and effect of missed farms in State totals.

The direct enumeration sample consisted of approximately 6,400 segments in "rural" areas (areas outside places with 2,500 or more population in 1970) in all States, except Alaska and Hawaii. The segments were created and selected using enumeration district maps and data from the 1970 Census of Population and Housing. In October and November 1978, enumerators visited each household in these segments to determine if anyone in the household was associated with an agricultural operation. A 78-A1(A) report form was completed for each person with agricultural operations. This form was similar to the 78-A1(S) sample form but collected additional information on alternate names and addresses and other individuals associated with the operation for use in matching these cases to the census mail file. The front page of the 78-A1(A) report form is reproduced in appendix D. During the enumeration, each operator received an orange-colored sticker and was instructed that if he/she received a census form in the mail, the form should not be filled but returned with the sticker attached indicating that a report had already been completed.

During office processing, a concentrated effort was made to match the direct enumeration sample returns to names and addresses on the census mail list using the sticker returns, microfilm search of the mail file for all associated names, telephone calls to all cases that could be reached by phone, and any other available information. Direct enumeration sample returns not matched to the census mail list after this extensive research comprise the sample representing farms in the State not on the census mail list. Data from these unmatched direct enumeration sample returns were used to provide estimates at the State level for farms not on the census mail list. For each State, these data have been tabulated and published as a "pseudo" county and are an integral part of the State totals. The direct enumeration sample estimates have not been included in individual county totals.

## Report Forms

The Census Bureau recognizes the need to minimize both respondent burden and census cost by limiting the number of items for which data are requested to those most needed by users as the basis for current understanding and future planning. In addition to limiting data items, the most recent eight censuses of agriculture have also used sampling techniques to further minimize reporting burden and census cost. For 1945, additional items were included in the enumeration of designated geographic segments, but were omitted from the report forms used for all other areas. For the 1950, 1954, 1959, and 1964 censuses, similar goals were met by instructing the enumerators to determine whether to ask or omit the items in designated sections of the report forms. For the 1969, 1974, and 1978 mailout/mailback censuses, two report forms were used again with the result of minimizing the reporting burden, particularly for smaller farms.

For 1978, the two report forms were a 5-page report form (78-A1(S)) containing all the items asked in the census, and a 4-page form (78-A1 (N)) omitting the sample items (sections 22 through 27). Form 78-A1(N) and the 78-A1(S) sample items are reproduced in appendix D. In all States except Alaska and Hawaii, the sample form (A1(S)) was mailed to all certainty addresses (large farms) and to 20 percent of the noncertainty addresses; the nonsample form (A1(N)) was mailed to the remaining noncertainty addresses. The sample form was mailed to all Alaska addresses. For Hawaii, a modified version of the sample form was used for all farms. The modifications were made principally in the crops section in order to cover the specialized agriculture on the islands. The Statistical Adjustments section of this appendix defines certainty farms and includes a discussion of the criteria used to determine whether the sample or nonsample form was to be mailed to noncertainty addresses.

## **Initial Mailing**

The report forms were distributed by the U.S. Postal Service during the last week of December 1978 to all individuals, businesses, and organizations on the mail list. Approximately 4,241,000 forms were included in the initial mailing (3,140,000 nonsample forms and 1,101,000 sample forms).

From February through August 1979, additional initial mailings were sent primarily to new tenants and successors identified during report form processing. Thus, the total mailing list for the 1978 Census of Agriculture was 4,430,000.

An information sheet containing detailed instructions for completing the form was included with each report form (see appendix D). Additional special instructions were included with report forms sent to identifiable producers of poultry under contract, bees and honey, laboratory animals, feedlot operations, and nursery and greenhouse products.

In an effort to provide additional help in completing reports, approximately 60,000 copies of a Farm Census Guide booklet were sent to county agricultural agencies and related institutions or businesses to whom farmers might turn for help. Included were rural banks, accountants, vocational agriculture instructors, and the following U.S. Department of Agriculture county offices: Agricultural Stabilization and Conservation Service,

Farmers Home Administration, and Agricultural Extension Service. This guide contained descriptions and definitions for various items in more detail than the instructions included with each report form. Representatives of the above agencies graciously consented to assist farmers in completing their report forms if assistance was requested. In addition, the telephone number for the Jeffersonville, Ind. processing office was provided in the original mailing in case the respondent requested assistance or had additional questions which were not covered in the instructions.

## Followup Procedures

The data collection effort included seven followup letters to nonrespondents, three of which were accompanied by a report form. To evenly distribute the workloads in mailing, receipts, and processing, the mail list was divided into three groups for followup purposes. In late January, the first followup letter was sent to all nonrespondents reminding them of the February 15 due date. The other reminders followed on a flow basis at 3- to 4-week intervals starting in late February and continuing into July.

In low response areas, additional efforts were made. State Commissioners of Agriculture were asked to issue supporting statements urging farmers to complete and return their reports. In early April 1979, nonrespondents in about 300 counties with the lowest response rates were mailed an additional letter using simpler language in large print suggesting that if they needed help in completing their report, they could call collect to the Jeffersonville, Ind. processing office.

From March to November 1979, telephone calls were made to nonrespondents who were large (for most States, those with expected sales of \$80,000 or more) or were located in about 60 counties with low response. Data for large farms were obtained by telephone from secondary sources if the addressee could not be contacted or refused to provide information. Most of the nonresponse calls were made by the staff of the Jeffersonville, Ind. processing office. However, calls to the larger and more complex operations were made by the Agriculture Division staff. Upon completion of data collection, all counties had response rates exceeding 75 percent of the final mail list including additional addresses. The overall response rate for the 50 United States was 88 percent for all addresses and nearly 95 percent for addresses with a known history of farm operations. A significant proportion of the nonresponse cases was found not to have qualifying agricultural operations for 1978. For a description of the adjustment for nonresponse, see Statistical Adjustments.

### **DATA PROCESSING**

All report forms were subjected to a clerical screening review, during which they were corrected to make them acceptable for keying onto magnetic tape. Farm operators completing a nonsample form who reported sales or acres above the certainty level were sent correspondence requesting the additional sample data. Reports for special list cases identified on the mail list as producing specific products such as broilers or cattle were checked to insure that the special item had been reported.

Problem reports requiring special review or additional handling were referred to technical assistants, or if necessary, to statisticians for resolution. Report forms with sales or acreage above levels listed as State "must" were subjected to a more stringent precomputer review, including completeness checks for key basic data items. Reports from multiunit operations and institutional and government-operated farms were reviewed and edited by statisticans. All farms with expected or reported sales of \$1,000,000 or more or 30,000 acres or more, all Alaska and Hawaii reports, selected multiunit operations, and other selected problem reports were reviewed by statisticians in the Agriculture Division. Omissions, inconsistencies, and other problems that could not be resolved by reference to other information on the report were resolved by contacting the respondents by telephone or correspondence.

All successors and the more significant tenant names and addresses reported in the census were researched on microfilm of the census mail file. Report forms were mailed to addresses not located on the mail file. Research was also conducted on reports from selected respondents claiming that they had previously completed a census form to eliminate possible duplication.

Data for each report form were subjected to a detailed item-by-item computer edit. The edit included comprehensive checks for consistency and reasonableness, corrected data found to be in error or inconsistent, supplied missing data based on similar size farms within the same county, and assigned farm classification codes which were necessary for tabulating the data. Entries of large magnitude and significant computergenerated changes to the data were manually verified. Obvious errors such as reports of cotton or citrus in the Northern States were also identified and corrected.

Many of the acceptability limits on data were necessarily wide making it impossible to identify and correct all errors or to always supply precise estimates for all the incompleteness in the reports. These factors and others may affect the reliability of data for some minor items, but they should not have a significant effect on major data items in any county.

In the computer edit, those farms with sales or acreage exceeding State "must" levels were tested for historical consistency. Key items such as acreage, number of livestock sold, crops, and sales were compared for significant changes between 1974 and 1978. Problems in historical consistency were resolved usually by telephone.

In order to reduce duplicate reporting because of more than one completed report being received for the same operation under different names, computer listings of reports with similar operator names and size of operation were produced and duplicate reports were deleted prior to tabulations.

After each report was screened, computer edited, and had all identified problems corrected, each data item on the report was added into the total for that item for the county. The result was a computer tabulation matrix for each county containing the sum of individual entries for each data item. This matrix enabled the easy and precise construction of the published tables.

Prior to publication of preliminary reports and volume 1 reports, tabulated totals were reviewed by statisticians to

identify remaining inconsistencies and potential coverage problems. Comparisons were made with historical census trends as well as current year State level estimates published by the U.S. Department of Agriculture and other agencies as part of the coverage review. Selected report forms were reviewed and problem entries were either verified as being correct or the data were corrected.

## **COMPARABILITY OF DATA**

Significant changes were made to the data collection procedures to improve the coverage of the 1978 census, including a more complete mail list and the use of a direct enumeration area sample to supplement the mail list. The effect of these improvements has been to increase the 1978 State farm counts above what they would have been using previous methods. The 1978 State farm counts, consisting of totals from the mail list and the direct enumeration area sample, include farms that would have been missed in the 1974 and 1969 censuses.

The 1978 county farm counts do not include any totals from the direct enumeration sample. However, for some counties, the counts may have increased substantially because of the improved coverage of small farms in the 1978 mail list. County level data on acreages and inventories are generally comparable.

Estimates of the net proportion of farms missed in the 1974 census varied widely by State, from a low of 0.7 percent in Nebraska to a high of 33.0 percent in West Virginia. Appendix C shows adjusted farm counts by State. Because missed farms were typically small, the percent missed was generally higher in States having a relatively large proportion of small farms and urbanized areas having a sizable number of part-time farms. The proportion of the total farms in each State represented by the direct enumeration sample in 1978 can be expected to follow a pattern similar to that for missed farms in 1974.

Since most of the farms identified in the direct enumeration sample were small, these farms have a much greater effect on the State counts of farms and farms reporting than on measures of agricultural production such as land in farms, sales of agricultural products, acres and production of crops, and inventory and sales of livestock and poultry.

Changes in the farm definition also affect the comparability of data. In general, data for 1978 and 1974 would be directly comparable with data for 1969 and earlier censuses only for farms with sales of \$2,500 or more because the data for these farms are not affected by changes in the farm definition. A difference in timing and the change from personal interview to mail enumeration affect comparability with data from censuses prior to 1969. The effect of the 1974 definition change for selected State and county totals is shown in appendix B.

Dollar figures shown for expenses and agricultural product sales have not been adjusted for changes in price levels between census years. Crop and livestock production and sales and expense data are for the calendar year 1978, except for a few crops (such as citrus) for which the production year overlaps the calendar year. Inventories of livestock, poultry, and other specified items are as of December 31, 1978. The reporting period and inventory date are the same as for the 1974 and 1969 censuses.

Censuses prior to 1969 were taken by enumerators, each assigned to a specific geographic area. Field work for the 1959 and 1964 censuses was completed mainly in October, November, and December of the reference year. Livestock and poultry inventories for these two censuses were as of the time of enumeration. Other variations in the time of enumeration occurred prior to 1959.

### MAJOR CHANGES IN DATA COLLECTED

Unusually strong adverse reaction to the length and content of the 1974 census report form stimulated an intensive review and rejustification of all data inquiries accepted for collection on the 1978 census report form. Data users were requested to provide the Bureau with their data requirements, including the level of publication needed-county, State, or national. Each data item requested was reviewed to determine if it was needed at the county level and if so, whether on a complete or sample basis. Some data items needed only at the State or regional level were relegated to one or another of the follow-on surveys scheduled to be conducted in 1980 for calendar year 1979. By eliminating many items included on the 1974 report form, redesigning the form to accommodate two columns of items per page, and converting many more items to write-in status, especially in the crops sections, the report form was reduced from a 20-page booklet to a 4-page form for most farms and a 5-page form for certainty and sample farms. Data items on the 1974 report form which were eliminated on the 1978 report form were:

Type of rental arrangement
Sales of forest products
Commercial fertilizer used for specific crops
Irrigation methods and quantity of water used
Drainage
Grain storage facilities
Futures markets
Contracts
Injuries and illnesses
Other production expenses
Income and expenses from farm-related sources
Farm credit
Family income from off-farm sources

Much of the detailed data collected in 1974 for costs of materials for individual types of agricultural chemicals and for quantities and costs of several feed categories including roughages purchased were deleted from the report form. In addition, many of the redundant totals used on the 1974 report form for cross checking data, especially in the production expenses and value of agricultural products sold sections, were eliminated.

The following high priority new data items were added to the 1978 report form:

Set-aside acres in Federal Farm Program
Government Commodity Credit Corporation (CCC) loans for grain and cotton
Direct sales to consumers
Foreign ownership of farmland

Greater detail on expenses for energy

# FOLLOW-ON SURVEYS AND THE CENSUS OF HORTICULTURAL SPECIALTIES

Integral to each census of agriculture program are the follow-on surveys conducted after the main census. The purpose of these specialized surveys is to collect additional, much needed agriculture-related information from highly specialized operations or from only a sample of farms without burdening all farm operators. Thus, allowing the use of a shorter report form for the general census. The follow-on surveys are limited to high priority data items that yield United States, regional, or State level estimates, which in and of themselves or in association with general census data, are used as the basis for current decisionmaking and future planning.

Data from the Farm Finance, the Farm and Ranch Irrigation, and the Farm Energy Surveys, conducted in 1980 covering calendar year 1979, are published in Volume 5, Special Reports, of the 1978 Census of Agriculture.

The Farm Finance Survey provides detailed farm financial data, including debts, expenses, taxes, credits, assets, and farm and off-farm incomes for farm operators. Many of these items as well as detailed data concerning land ownership and landlord characteristics are also being collected from the landlords of the farms involved in the survey.

The Farm and Ranch Irrigation Survey provides high priority data on water use by irrigated farms. Included in the data are: acreage irrigated, yields for irrigated and nonirrigated crops, quantity of water used, methods of distribution, types of pumps, and number of wells.

The Farm Energy Survey provides detailed data on energy purchased by type of energy source, storage capacity, and selected kinds of energy-consuming machinery and equipment.

The 1979 Census of Horticultural Specialties covers the operations of producers of nursery and greenhouse products, mushrooms, and sod in much greater detail than the main census of agriculture. This census has been conducted in 1890, 1930, 1950, and every 10 years since, in association with the census of agriculture. Data for this census are published in Volume 5, Special Reports.

## **DISCLOSURES**

In many tables, data are suppressed and a (D) is used instead of a number. To ensure the confidentiality of information on a characteristic of an individual farm, it is necessary to suppress data when the value of an item for one or two farms can be definitely or approximately determined by mathematical manipulations.

Suppressions of data made within frequency distributions are accomplished in a way that will maintain maximum integrity of the frequency groups as suppressions are made whenever possible in adjacent frequency classes. This allows the user, by subtraction from the total, to have a farm count and total quantity reported for the combined suppressed frequencies. Although the published frequency data are not complete, the truncated frequency distribution is available for analysis purposes.

### 1974 DATA CORRECTIONS

Some 1974 data have been revised since the 1974 volume I publications were released. The major revisions were for:

Madera County, California—number of heavy breed turkeys sold and related data.

Maricopa County, Arizona—acreage of improved pecans and related data.

## **DEFINITIONS AND EXPLANATIONS**

Definitions and explanations of terms in this section provide more detailed descriptions for selected items and terms than are available on the report form or in the tables. Differences in definitions between censuses, data deficiencies, and special processing performed for individual or related data items are also explained. For an exact wording of the questions on the sample and nonsample forms used in 1978 for the conterminous United States, and the information sheet which accompanied these forms, see appendix D.

For all tables, historical data are shown whenever individual items are comparable, otherwise an (NA) is used. Some historical data may differ slightly from totals included in prior census publications due to rounding of fractions and dollar values.

Farms or farms reporting—The term "farms" or "farms reporting" in the presentation of data denotes the number of farms reporting the item. For example, if there are 3,710 farms in a State and 842 of them had 28,594 cattle and calves, the data for those farms reporting cattle and calves would appear as:

Land in farms—The acreage designated in the tables as "land in farms" consists primarily of agricultural land used for crops, pasture, or grazing. It also includes woodland and wasteland not actually under cultivation or used for pasture or grazing, provided it was part of the farm operator's total operation. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations.

Land in farms is an operating unit concept and includes land owned and operated as well as land rented from others. Land used rent free was to be reported as land rented from others. Except for open range and grazing land used under government permits, all grazing land was included as "land in farms" provided it was part of a farm or ranch. Grazing land operated by grazing associations was to be reported by the person chiefly responsible for conducting the business of the association. All land in Indian reservations used for growing crops or grazing livestock was to be included as land in farms. Land in Indian reservations not reported by individual Indians or non-Indians was to be reported in the name of the cooperative group that used the land. In some instances, an entire Indian reservation was reported as one farm.

Land area—The approximate total land area of counties and States shown for 1978 represents the land area as determined by records and calculations updated as of January 1, 1979. These data are updated periodically; however, the acreage shown for 1978 are essentially the same as in 1974. Any differences between the land area in 1978 and 1974 are due to annexations, disincorporations, and other changes affecting county boundaries.

Land in two or more counties—With few exceptions, the land in each farm was tabulated as being in the operator's principal county. The principal county was defined as the one where the largest value of agricultural products were raised or produced. It was usually the county containing all or the largest proportion of the land in the farm. For a limited number of Western States, this procedure has resulted in the allocation of more land in farms to a county than the total land area of the county. To minimize this distortion, separate reports were required for large farms, identified from the 1974 census and prior special surveys as having more than one separately reportable farm unit. Other reports received showing land in more than one county were separated into two or more reports if the data would significantly affect the county totals. These reports were assigned to the appropriate counties during office processing.

Value of land and buildings—Farm operators receiving the sample form were asked to report their estimate of the current market value of land and buildings owned, rented or leased from others, and rented or leased to others. Market value refers to the respondent's estimate of what the land and buildings would sell for under current market conditions. For 1978, this information is estimated from the replies of a sample of farms; whereas for 1974, all farm operators were asked to provide these data. If the value of land and buildings was not reported, it was estimated during processing by using the average value of land and buildings from a similar farm in the same geographic area.

Other land—This category includes land in house lots, barn lots, ponds, roads, wasteland, etc. The definition of "other land" is the same in 1978 and 1974 only for farms with sales of \$2,500 or more. In 1974, for farms with sales of less than \$2,500, "other land" included pastureland and rangeland other than cropland and woodland pasture in addition to land in house lots, barn lots, ponds, roads, and wasteland.

Land set aside in the Federal Farm Program—The 1978 report form included a new inquiry on the number of acres set aside in 1978 under the provisions of the Federal Farm Program. These data are for acres of cropland taken out of production by growers of wheat, corn, grain sorghums, and barley, and instead planted in cover crops, soil-improvement grasses, etc. No information was obtained as to which grains would have been grown on the acres set aside.

Foreign ownership of agricultural land—An inquiry measuring the impact of foreign ownership of agricultural land was added to the 1978 report forms. All farm operators were asked to report the number of acres owned by individuals who are not U.S. citizens; or owned by foreign-held corporations, unincorporated associations, or foreign governments.

In some cases, operators using land owned by others may not know the beneficiary owner of the land or, if the owner is known, they may not know the citizenship of the landlord. Therefore, a "don't know" category was included on the report form. Corporations with 50 percent or more of the stock held by foreign investors were considered foreign owned. Any land owned and operated by such corporations was included as land held under foreign ownership.

County summary table 36 provides operators response to the foreign ownership inquiry. Counts are provided for those responding "yes", "no", "don't know", and "no response". No attempt was made to contact nonrespondents.

Operator—The term "operator" designates a person who operates a farm, either doing the work or making day-to-day decisions about such things as planting, harvesting, feeding, marketing, etc. The operator may be the owner, a member of the owner's household, a salaried manager, a tenant, a renter, or a sharecropper. If he/she rents land to others or has land worked on shares by others, he/she is considered the operator only of the land which he/she retains for his/her own operation. For partnerships, only one partner is counted as an operator. If there is no clear-cut partner in charge, then the senior or oldest active partner is considered to be the operator. For census purposes, the number of operators is the same as the number of farms. In some cases, the operator was not the individual named on the address label of the report form, but another family member, a partner, or a hired manager who was actually in charge of the farm operations.

Operator characteristics—Data on characteristics such as residence, race, Spanish origin, age, sex, principal occupation, and off-farm work were collected from all operators in 1978. In the 1974 census, operator characteristics were collected only for all farms with sales of less than \$2,500 and for farms with sales of \$2,500 or more operated by individuals (sole proprietorships) and partnerships. If operator characteristics of race, age, sex, and principal occupation were not reported for 1978, they were derived based on reports with similar acreage size, tenure, and sales size. No adjustments were made for nonresponse to residence, Spanish origin, and off-farm work.

Extensive verification and recontacting were done for positive responses to Spanish origin, especially in Southern States. It was found that a number of these responses were in error, apparently the word American in "Mexican American" was mistaken as American origin.

Write-in entries of "other" race were clerically reviewed and recoded where necessary; entries without an accompanying write-in description were not verified by recontacting the respondent. Based on demographic classifications, "other" race is limited to native non-Spanish populations of Central and South American countries.

In the presentation of data on race of operator, the classification "Black and other races" includes Blacks, American Indians, Asian or Pacific Islanders, and any other separate racial group excluding White. For the 1978 census, operators of

Spanish origin are tabulated by reported race. Prior censuses included Spanish origin as "White" whenever separate data for the White race were shown.

The 1978 Census of Agriculture is the first census to collect data on the sex of the operator. For farm operations where both husband and wife participated, the response was determined by the parties involved.

Selected production expenses—Data on selected production expenses incurred in 1978 were requested from farm operators reporting on the sample form. Only selected production expenses were requested; thus, the expense data cannot be used in combination with gross sales to calculate net farm income. The 1974 census attempted to gather selected expenses plus a category "all other production expenses" to arrive at total expenses. This category was to include items such as depreciation, taxes, interest, rent, and insurance for the farm business. Because of the burden to respondents and inaccuracy in reporting, the "all other production expenses" inquiry was not included on the 1978 report form. The 1979 Farm Finance Survey provides estimates on net farm income.

For 1978, as with earlier censuses, expense data in some cases were not fully reported especially by operations producing crops, livestock, or poultry on a contract basis. Many such operators were unable or unwilling to estimate the value of production inputs furnished by the contractor. Estimates were made for individual expense items based on reported crop and livestock information, or on averages or ratios of expense items reported by similar farms in the same geographic area.

Commercial fertilizer—The expense for commercial fertilizer is the amount spent on fertilizer during 1978, excluding the cost of application. Some fertilizer purchased in 1978 may not have been applied during the year. If the fertilizer was applied by someone other than the operator, the cost of application is included as an expense for customwork, machine hire, and rental of machinery and equipment. Some operators may have included the cost of application with the amount spent on fertilizer.

Other agricultural chemicals, including lime—Expenses include the cost of all insecticides, herbicides, fungicides, other pesticides, lime, etc., excluding costs of application. Data exclude commercial fertilizer purchased.

Customwork, machine hire, and rental of machinery and equipment—This expense represents costs incurred for having customwork done on the place and for renting machines to perform agricultural operations. The cost of cotton ginning is excluded. The cost of labor involved in the customwork service is included in the customwork expense. The cost of labor used on rented or hired machinery is included as a hired farm and ranch labor expense.

Energy and petroleum products—More extensive data on energy usage for the farm business were collected in the 1978 census than in prior censuses. Data were collected on expenses, gallons purchased, and storage capacity for gasoline; diesel fuel; LP gas,

butane, and propane; and fuel oil. In addition, data on expenses for natural gas; kerosene, motor oil, and grease; electricity; and all other energy sources were collected. Data for 1974 include only storage capacity and expenses for gasoline; diesel; LP gas, butane, and propane; and a combined total expense for motor oil, grease, piped gas, kerosene, and fuel oil. The 1978 energy data were collected from a sample of farms. Additional data on energy usage and storage capacity are available from the 1979 Farm Energy Survey.

Caution should be used in evaluating storage capacity. Farms not reporting storage capacity were not identifiable from farms with no storage capacity; therefore, the totals understate the actual storage capacity available.

Value of agricultural products sold—This item represents the gross market value before taxes and production expenses of all agricultural products sold or removed from the place in 1978 regardless of who received the payment. It includes sales by the operator as well as the value of any shares received by partners, landlords, contractors, and others associated with the operation.

The value of agricultural products sold represents the sum of all crops including nursery products sold, and livestock and poultry and their products sold. It does not include income from farm-related sources such as customwork or agricultural services, or income from nonfarm sources. For 1974 and 1969, the value of agricultural products sold included sales of forest products from farms and ranches.

The value of crops sold in 1978 does not necessarily represent the sales from crops harvested in 1978. Data include sales from crops produced in earlier years and exclude some crops produced in 1978, but held in storage and not sold in 1978. For crops sold through a co-op which made payments in several installments, only the total value received in 1978 was to be reported.

The value of agricultural products sold was collected from all operators. Where the operator failed to report a value of sales, estimates were made based on the amount of crops harvested or the number of livestock or poultry sold. Extensive estimation was required for operators growing crops or livestock under contract.

Caution should be applied when comparing sales in 1978 with sales reported in earlier censuses due to the extreme fluctuations in per-unit prices between census years.

Income from machine work, customwork, and other agricultural services—This category consists of gross income received during 1978 by farm operators for providing machine work, customwork, and other agricultural services for others such as plowing, planting, harvesting, etc. Entries were deleted when duplicate information was reported in the 1978 Census of Agricultural Services, or when entries were large enough to consider the agricultural services activity separate from the farm or ranch. The agricultural services part of a farming operation was generally considered a separate operation when income from agricultural services was greater than \$500,000, or when it was \$10,000 or more and greater than the value of agricultural products sold. Data for establishments primarily engaged in agricultural services are published separately in volume 3.

Value of agricultural products sold directly to individuals for human consumption—This item represents the value of agricultural products produced and sold directly to individuals for human consumption from roadside stands, farmers' markets, pick-your-own sites, etc. By definition, it excludes nonedible products such as nursery products, cut flowers, wool, grains, etc. Sales of agricultural products by vertically integrated operations through their own processing and marketing operations were excluded where identified.

Fertilizer and lime—Detailed inquiries on acreage fertilized and tonnage of fertilizer applied by crop, which were included on the 1974 census form, were not collected in 1978. Data collected for 1978 are limited to total acres of cropland fertilized excluding cropland used only for pasture, and total acres of pastureland and rangeland fertilized. Data on lime use were requested in both 1978 and 1974. Land fertilized and limed data were collected from a sample of farms in 1978. Total acres of cropland fertilized in 1974 were obtained by adding the acres of individual crops fertilized and, therefore, may include duplication where two or more crops using the same acreage were each fertilized during the year.

Irrigation—The 1978 report forms included inquiries on acres irrigated for specific crops and total acres irrigated for harvested cropland, pastureland or rangeland, and any other land. Data on methods of irrigation and estimated quantity of irrigation water used by farms and ranches collected in the 1974 and 1969 censuses are available from the 1979 Farm and Ranch Irrigation Survey and are included in Volume 5, Special Reports. Irrigation data collected on the 1978 report form are summarized in more detail in volume 2, Part 9, Irrigation on Farms and in Volume 4, Irrigation, which also includes data from off-farm water suppliers covered in the 1978 Census of Irrigation Organizations.

Value of livestock and poultry on farms—Data for the value of livestock and poultry on farms were obtained by multiplying the inventory of each major age and sex group by the State average price. The State average prices for cattle, hogs, sheep, angora goats, hens and pullets of laying age, and turkeys were obtained primarily from data published by the Economics, Statistics, and Cooperatives Service of the U.S. Department of Agriculture. Prices applied to other livestock and poultry were census-derived averages based primarily on reported value of sales in the 1978 Census of Agriculture. The 1974 and 1969 data were developed in a similar manner.

Poultry hatched—The 1978 data include all poultry hatched during the year that were placed or sold; whereas for 1974, data include only poultry sold. For example, chickens hatched and raised for layer replacement on the same farm are included in 1978 data for poultry hatched, but excluded from 1974 totals. The value of hatchery sales is included in the category "Poultry and Poultry products."

Fish and other aquaculture products—The raising of fish and other aquaculture products in captivity was included as agri-

cultural production by the 1972 Standard Industrial Classification, and data for such operations were included in the agriculture census for the first time in 1974. The value of fish and other aquaculture products sold is included in the category "Other livestock and livestock products." Production in salt water was considered not to be in captivity and was excluded.

Bees and honey—Bee and honey production was enumerated and tabulated in the county in which the home farm was located (even though hives are often moved from farm to farm over a wide geographic area for pollination of crops). The completeness and accuracy of these data are affected by the fact that some bee operations may not have been on the mail list and some operators on the mail list may not have considered beekeeping to be an agricultural operation, and therefore did not report.

Citrus enumeration-For the 1978 census, reports for selected citrus caretakers in Arizona, Florida, and Texas were obtained by direct enumeration. This special enumeration has been used in recent censuses because of the difficulty in identifying and enumerating absentee grove owners who often do not know the information that is needed to adequately complete the report form. A citrus caretaker is an organization or person caring for or managing citrus groves for others. Each citrus caretaker was enumerated as a farm operator and requested to complete one report form for all groves cared for and to furnish a list of grove owners' names, addresses, and number of acres of citrus. The names on the lists were matched to completed grove owners' reports to eliminate duplication. The caretaker was also requested to inform the grove owner that he had already reported for the citrus under his care and that the grove owner was not to report again. In the 1978 census, 8 caretakers in Arizona reported 250 grove owners having 12,000 acres of citrus; the 100 caretakers in Florida reported 6,600 grove owners having 240,000 acres of citrus; and 27 caretakers in Texas reported 1,500 grove owners having 30,000 acres of citrus.

More detailed information by State and county are included in volume 2, part 6.

Crop year or season covered—Acres and quantity harvested are for the calendar year 1978 except for citrus fruits, avocados, and olives; vegetables in Florida; sugarcane in Florida and Texas; and pineapples and coffee in Hawaii.

Citrus fruits—The data relate to the crops harvested from the bloom of 1977 for the 1977-78 marketing season.

Avocados—The data for California relate to the quantity harvested from November 1, 1977 through November 30, 1978; the data for Florida relate to the quantity harvested or to be harvested from April 1978 through March 1979.

Olives—The data relate to the quantity harvested from the bloom of 1977 for the October 1977 to March 1978 harvest season.

Vegetables—The data for Florida relate to the crop harvested for the September 1, 1977 through August 31, 1978, harvest season.

Sugarcane—The data for Florida and Texas relate to the reported cuttings from November 1977 through April 1978.

Pineapples and coffee—The data for Hawaii for pineapples relate to quantity harvested for the year ending May 31, 1978, and coffee for the 1977-78 crop.

Acres and quantity harvested—Crops were reported in whole acres, except for the following crops which were reported in 10ths of acres: Irish potatoes, sweetpotatoes, tobacco, fruit and nut crops including land in orchards, berries, vegetables, and nursery and greenhouse products; in Hawaii, taro, ginger root, and lotus root. Totals for crops reported in tenths of acres were rounded to whole acres at the aggregate level during the tabulation process.

If two or more crops were harvested from the same land during the year, the acres would be counted for each crop. Therefore, the total acres of all crops harvested generally exceeds the acres of cropland harvested. The exception to this procedure is hay crops. When more than one cutting of hay was taken from the same acres, the acres are counted only once but the quantity harvested includes all cuttings. However, hay cut for both dry hay and green chop or silage would be reported for each applicable crop. For interplanted crops or "skip-row" crops, acres were to be reported according to the portion of the field occupied by each crop.

If a crop was planted but not harvested, the acres were not to be reported as harvested. These acres were to be reported in the "land use" section under the appropriate cropland items—cropland used only for pasture or grazing, cropland used for cover crops, cropland on which all crops failed, cropland in cultivated summer fallow, or cropland idle.

For crops grown purposely for grazing, quantity harvested was not requested. Acres for these crops were to be reported as "cropland harvested" and not as "cropland used only for pasture or grazing." This procedure applies to the following crops:

Corn cut for dry fodder, hogged or grazed Cowpeas hogged or grazed or cut for silage Sorghums hogged or grazed Soybeans hogged or grazed or cut for silage

Quantity harvested was not obtained for crops such as vegetables, nursery and greenhouse products, and soybeans plowed under.

Acres of land in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees were to be reported as harvested cropland regardless of whether the crop was harvested or failed. However, abandoned orchards were to be reported as cropland idle, not as harvested cropland or for the individual crop acreages.

Data for hay represent all hay crops, including grass silage and hay crops cut and fed green. In production data, dry tons represent dry tonnage for the various hay categories and dry weight equivalents for grass silage and hay cut and fed green. The conversion used was 3 tons of green weight to 1 ton of dry weight.

Crop units of measure—For some crops, the operator could report quantity harvested in a unit of measure currently in use in the area. These crops were: Corn for grain or seed, in bushels shelled or hundredweight shelled; sorghums for grain or seed, in bushels or pounds; rice in 100-lb. bags, bushels, or 162-lb. barrels. Corn for grain and sorghums for grain are published in bushels and rice in 100-lb. bags. Grapes could be reported in dry weight or fresh weight; plums and prunes in fresh weight or prunes in dry weight; and in Hawaii, coffee in pounds parchment or pounds cherry, and macadamia nuts in pounds husked, unshelled or pounds shelled. For other fruit and nut crops and citrus, the operator was given a choice of units of measure of pounds, tons, or boxes. The quantity harvested for these crops are published in pounds.

Write-in crops—To reduce the length of the report form, only the major crops for the United States were prelisted (see sections 2 and 3 of the report form). For the other crops, the respondent was requested to look at a list of crops in each section and write in the crop name and its code (see sections 4, 5, 6, 7, and 8 of the report form). For crops that had no individual code listed on the report form, the respondent was to write in the crop name and code the crop into the appropriate "all other" category for that section. Crops not coded by the respondent were coded during processing before keying. Write-in crops coded as "all other" were reviewed and assigned a specific code when possible. Crops not assigned a specific code were left in the appropriate "all other" category.

In some cases, the reviewers were unable to determine the specific crop reported by the respondent because of incomplete or generalized crop names. To ensure proper coding, most of these respondents were telephoned; reports for those not telephoned were changed on the basis of other reports for the area.

Misreported or miscoded crops—In a few instances, tabulated data may be inaccurate because respondents misunderstood or misinterpreted questions on the report form. Data may have been reported on the wrong line or in the wrong section of the report, or the wrong crop code may have been placed beside the name of a write-in crop. Some of these errors as well as some keying errors may not have been identified during processing and therefore were not corrected. Reports with unusual crops for the area were examined to minimize the possibility that they were in error.

Comparability of crop data—For the 1974 and 1969 censuses, data for all crops are available for farms with sales of \$2,500 or more while only data for the major crops—corn, sorghums, soybeans, peanuts, wheat, cotton, tobacco, potatoes, hay, vegetables, land in orchards, and berries are available for all farms. For 1978, data for all crops are available for farms with sales of \$2,500 or more and for all farms.

For a number of commodities, less detailed data were collected in 1978 than in 1974. In these instances, 1974 data have been combined to provide comparable figures wherever possible.

The "acres of vegetables harvested" in 1978 and 1969 was the summation of the acres of individual vegetables harvested,

but in 1974 it was the total land used for vegetable crops. For "land used for vegetable crops," the acres were to be reported only once even though two or more harvests of a vegetable or more than one vegetable were harvested from the same acres.

The "other crops" in the tables are not comparable from census to census as crops are added and deleted from the report form each census.

Value of crop production—This item represents the estimated value of all crops harvested during the 1978 crop year. Data for the value of crops harvested were obtained by multiplying the average estimated value per unit by the reported acres or quantity harvested. Generally, harvested units of production (pounds, bushels, bales, etc.) were multiplied by State estimates of prices per unit. If only acres harvested were reported, State estimates for value of production per acre were used. The State average production price and production value per acre used in these calculations were obtained in most part from publications of the Economic, Statistics, and Cooperative Service, U.S. Department of Agriculture (USDA). When USDA estimates were not available. Bureau of the Census statisticians made estimates using available sources such as data from adjacent States, respondents, report forms, county extension agents, and other persons knowledgeable about specific crops.

### "See Text" References

Items in the tables which carry the note "See text" are explained or defined in this section. Also, additional definitions and explanations for some items are provided.

Data for 1978 are based on a sample of farms—Sections 22 through 27 of the census report form 78-A1(S), which include inquiries on commercial fertilizer and lime, chemicals, machinery and equipment, expenses for energy and petroleum products, selected production expenses, and value of land and buildings, were requested of all certainty (large) farms and approximately 20 percent of all other farms. As these data are subject to sampling error, estimates of the sampling reliability of county totals for selected items are shown in table D.

Farms operated by Black and other races—For 1974 and 1978, "other races" includes American Indians, Asian and Pacific Islanders, and all other racial groups other than White. The 1969 data are limited to farms operated by Blacks. Additional information on race of operator is provided under "operator characteristics".

All other races—This category is limited to native non-Spanish populations of Central and South American countries.

1974 data apply only to individual or family operations (sole proprietorships) and partnerships—For 1974, farm operator characteristics were not collected from corporations, cooperatives, prison farms, grazing associations, and Indian reservations. For 1978, characteristics and occupation of the senior partner or person in charge were collected from all farms, regardless of the type of organization.

Other type of organization—This category includes cooperatives, estates or trusts, prison farms, grazing associations, and Indian reservations.

Market value of agricultural products sold—This item represents the gross market value, before taxes and expenses, of all agricultural products sold in the census year including livestock and poultry and their products, and crops including nursery products and hay. The data include landlords' and contractors' shares. The 1974 and 1969 data include sales of forest products.

Farms with value of agricultural products sold less than \$2,500—In 1978, this category includes all farms, except abnormal farms, with sales less than \$2,500. In 1969 and 1974, farms reporting sales less than \$2,500 but having the production potential for sales of \$2,500 and over are included in the category farms with sales of \$2,500 and over. In frequency distributions, the 1969 and 1974 farms with potential sales of \$2,500 and over are included in the \$2,500 to \$4,999 sales group.

Other livestock and livestock products—Production of fish and laboratory animals is included in this category in 1974 and 1978; whereas, production of these items was excluded entirely from the 1969 census.

Poultry hatched—For 1978, this category includes all poultry hatched during the year that were placed or sold; whereas for 1974, it only included poultry sold. Incubator egg capacity on December 31, 1978, is tabulated under the column heading Inventory and the number of poultry hatched is under the heading Sales.

Worms—For 1978, the production of worms was separately identified; whereas for 1974, it was not. Inventory consists of the number of standard worm beds in production. A standard worm bed was considered to be 24 cubic feet measuring 8 feet by 3 feet by 1 foot. Sales of worms are shown in pounds. Worm casting sales are included in livestock products sold.

Hay crops (tons, dry)—Data shown for hay represent all hay crops, including grass silage and hay crops cut and fed green. In production data, dry tons represent dry tonnage for the various hay categories and dry weight equivalents for grass silage and hay cut and fed green. The conversion used was 3 tons of green weight to 1 ton of dry weight.

Other tame dry hay—The 1974 categories clover-timothy hay, lespedeza hay, coastal Bermuda grass hay, and other hay have been combined into "other tame dry hay" in 1978.

All vegetables harvested for sale—In 1978 and 1969, the acres of vegetables harvested is the summation of the acres of individual vegetables harvested; while in 1974, it is the total land used for vegetable crops.

Land used for vegetables—Data are the total land used for vegetable crops. The acres are reported only once, even though two or more harvests of a vegetable or more than one vegetable were harvested from the same acres.

**Grapes (pounds)**—Farm operators were given the option of reporting the quantity of grapes harvested in dry weight or fresh weight. For publication purposes, all quantities of grapes harvested have been converted to pounds fresh weight.

All nursery and greenhouse products—Data are a summation of the individual items presented.

**Excludes abnormal farms**—Abnormal farms include institutional farms, experimental and research farms, and Indian reservations. Institutional farms include those operated by hospitals, penitentiaries, schools, grazing associations, government agencies, etc.

Farms by standard industrial classification—See explanation under Farm Classifications.

## FARM CLASSIFICATIONS

State tables 29 through 35 present detailed 1978 data for all farms classified by specified characteristics—tenure of operator, type of organization, age and principal occupation of operator, size of farm (acres), value of agricultural products sold, and standard industrial classification. In 1974, comparable detailed data were tabulated only for farms with sales of \$2,500 or more. Other tables include data classified by value of sales groups, or other characteristics of the farm or the operator.

Farms by value of agricultural products sold or value of sales—In a number of State and county tables, data are shown separately for all farms and for farms with sales of \$2,500 or more, and for various value of agricultural products sold or value of sales size groups.

For 1978, all farms except abnormal farms have been tabulated by size based on reported sales. Thus, the category "farms with sales of \$2,500 or more" includes only farms with actual sales of \$2,500 or more. For 1969 and 1974, farms reporting sales of less than \$2,500 but having the production potential for sales of \$2,500 or more are included in most tables under the category farms with sales of \$2,500 or more based on potential sales.

In 1969, 1974, and 1978, abnormal farms were not tabulated based on actual or potential sales. Detailed data for abnormal farms are included in all farm data shown in State table 34, but are excluded from totals for all farms shown in other State tables 29 through 35. Otherwise, data for abnormal farms are included in totals for all farms, but are excluded from totals for farms with sales of \$2,500 or more.

In 1969 and earlier censuses, data were classified into nine groups referred to as "economic classes." For farms with sales of \$2,500 or more, the value-of-products-sold classifications used in 1974 and 1978 are the same as the value ranges used for establishing economic classes 1 through 5. Data for farms with sales of less than \$2,500, classified in 1969 and earlier censuses as class 6, part time and part retirement, are not directly comparable to the 1974 and 1978 value-of-product classes because of the change in farm definition and modifications in farm classification.

Farms by tenure of operator—The classifications of tenure used for both the 1978 and 1974 censuses are:

Full owners, who operate only land they own.

Part owners, who operate land they own and also land they rent from others.

Tenants, who operate only land they rent from others or work on shares for others.

Detailed 1978 data by tenure of operator are shown in State table 29 for all farms, excluding abnormal farms, and for farms with sales of \$2,500 or more.

Farms by type of organization—The 1978 Census of Agriculture was the first census in which all farms were classified by type of organization. In the 1969 and 1974 censuses, these data were collected and tabulated only for farms with sales of \$2,500 or more.

The classifications used were:

Individual or family operation (sole proprietorship), excluding partnership and corporation.

Partnership operation, including family partnership.

Corporation, including family corporation.

Other, such as cooperative, estate or trust, institutional farm, etc.

For 1978, corporations were subclassified by two additional characteristics into:

a. Family held.Other than family held.

b. More than 10 stockholders.

10 or less stockholders

These subclassifications were not used in the 1974 Census of Agriculture. However, somewhat similar classifications were obtained in a follow-on survey of all corporations identified in the census, which were published in volume IV, part 5 of the 1974 Census of Agriculture. This survey collected detailed information on family and nonfamily corporations, number of shareholders, and other classifications and characteristics of corporations at both the firm (company) and farm levels. In the 1969 census, corporations were classified only by number of shareholders; those having more than 10 or those having 10 or fewer shareholders.

Caution should be exercised when comparing 1978 corporation data to those of the 1974 survey and the 1969 census. For the 1974 survey, respondents were given a choice of four kinds of corporations from which to select the one that best described their operation: Family corporation, independent corporation, parent corporation (with one or more subsidiaries), and subsidiary of another corporation. Classification rules used prevented an independent, parent, or subsidiary corporation from being classified as a family corporation. The two-way choice of family held or other than family held used in 1978 has resulted in a decrease in the number and proportion of nonfamily held corporations reported.

A followup study of the 1969 data indicated that a sizable number of farms were incorrectly reported as corporations, especially in the Southern States. The 1974 survey was used to identify and correct the misreporting of corporations in that

census. In the 1978 census, some reports incorrectly had both individual or family operation (sole proprietorship) and family held corporation indicated. These reports were reviewed during the processing phase and resolved based on whether or not the respondent operated under a corporate name, had reported as a corporation in the 1974 census, or was shown to be a corporation on one or more of the administrative records used in developing the census mail list.

Farms by age and principal occupation of operator—Data on age and principal occupation were obtained from all operators for 1978. In 1974, these data were collected only for all farms with sales of less than \$2,500 and for farms with sales of \$2,500 or more operated by individuals (sole proprietorships) and partnerships. Detailed characteristics are shown by six age-of-operator groups in combination with occupation information for all farms in State table 31 and for farms with sales of less than \$20,000 in State table 32. The principal occupation classifications used for 1978 were:

Farming—The operator spent 50 percent or more of his worktime in 1978 in farming or ranching.

Other— The operator spent 50 percent or more of his worktime in 1978 in occupations other than farming. Some operators engaged in ranching marked "other" as their principal occupation. Most such obvious errors were corrected during processing.

Farms by size—All farms were classified by size according to the total land area in each operation. The land area of a farm is an operating unit concept and includes land owned and operated as well as land rented from others. Land rented to or assigned to a tenant was considered the tenant's farm and not the owner's. Detailed characteristics of all farms by 12 size-of-farm groups are presented in State table 33.

Farms by standard industrial classification— As in the 1974 census, agricultural production establishments (farms, ranches, nurseries, greenhouses, etc.) are classified by the Standard Industrial Classification (SIC) system in the 1978 census. These classifications, found in the 1972 SIC Manual, are used to promote uniformity and comparability in the presentation of statistical data collected by various agencies.

An establishment primarily engaged in crop production (major group 01) or livestock production (major group 02) is classified in the 3- or 4-digit industry group which accounts for 50 percent or more of the total value of sales of its agricultural products. If the total value of sales of agricultural products of an establishment was less than 50 percent from a single 4-digit industry, but 50 percent or more from the products of two or more 4-digit industries within the same 3-digit industry group, the establishment is classified in the miscellaneous industry of that industry group; otherwise, it is classified as a general crop farm in industry 0191 or a general livestock farm in industry 0291.

All farms in the 1978 census were classified by SIC. In the 1974 census, farms with sales of less than \$2,500 were not classified by SIC. In 1978, those agricultural producers having no sales reported were retained as farms and classified as general

livestock farms in industry 0291 if livestock or pasture were reported or as general crop farms in industry 0191. Characteristics of all farms by selected SIC groupings are shown in State tables 11 and 35. Additional and more complete 1978 data for various SIC classifications are published in volume 2, part 8.

### UNPUBLISHED DATA

Additional data have been assembled in a series of unpublished tables. The unpublished State table "Summary by Standard Industrial Classification of Farms by Value of Sales: 1978" has a format similar to State table 34. The largest size group in the boxhead is \$100,000 or more. Data are shown for the following SIC groupings:

Cash grain farms (011)

Field crop farms except cash grain farms (013)

Cotton farms (0131)

Tobacco farms (0132)

Sugar crop, Irish potato, hay, peanut, and other field crop farms (0133)

Vegetable and melon farms (016)

Fruit and tree nut farms (017)

Horticultural specialty farms (018)

General farms, primarily crop (019)

Livestock farms except dairy, poultry, and animal specialty (021)

Beef cattle farms, except feedlots (0212)

Dairy farms (024)

Poultry and egg farms (025)

Animal specialty farms (027)

General farms, primarily livestock (0291)

The following unpublished county summary tables include data tabulated by detailed size groupings:

Farms by Size of Farm: 1978 and 1974

Acreage and Value of Owned and Rented Land: 1978 Farms by Acres of Cropland Harvested: 1978 and 1974 Place of Residence of Operator by Occupation and Off-Farm

Work: 1978

Hired Farm Labor by Number of Hired Workers: 1978 Farms by Expenses for Hired Farm or Contract Labor: 1978

Broilers Sales by Number Sold Per Farm: 1978

Cows and Heifers That Had Calved-Inventory by Number

Per Farm: 1978

Beef Cows Inventory by Number Per Farm: 1978
Milk Cows Inventory by Number Per Farm: 1978
Cattle and Calves Inventory by Number Per Farm: 1978
Cattle and Calves Sales by Number Sold Per Farm: 1978
Fattened Cattle Sales by Number Sold Per Farm: 1978

Hogs and Pigs Inventory by Number Per Farm: 1978 Hogs and Pigs Sales by Number Sold Per Farm: 1978

Feeder Pigs Sales by Number Sold Per Farm: 1978
Other Hogs and Pigs Sales by Number Sold Per Farm: 1978

Sheep and Lambs Inventory by Number Per Farm: 1978 Sheep and Lambs Sales by Number Sold Per Farm: 1978

Data similar to that shown in State table 28 for the acreages of crops harvested and production by acreage size have been summarized at the county level, but have not been tabulated.

These summaries can be tabulated at a minimal cost depending on the detail of data requested.

For information on the availability and cost of unpublished tabulations, please write to the Chief, Agriculture Division, Bureau of the Census, Washington, D.C. 20233.

## NONSAMPLING ERRORS

Every census or survey is subject to errors. In addition to sampling variability, errors may arise from such sources as incorrect or incomplete reporting, processing, and the inability to obtain a report from each eligible reporting unit. Sampling variability is discussed in Statistical Adjustments.

Reported data in the census may be incorrect as a result of the misunderstanding of questions or because of the use of estimates in reporting. During processing, adjustments were made to data items which appeared to be inconsistent with other items reported for the same farm.

Respondents may have failed to provide all of the information requested. In some cases, the respondent may have indicated the presence of an item but not the amount. Imputations were made for missing data on the quantities and sales of crops and livestock but no imputations were made for place of residence or foreign ownership of land.

Careful efforts were made to keep errors introduced during clerical and electronic processing to a controlled level through the use of quality control, verification, and check measures on specific operations.

Extreme values in the direct enumeration sample (those contributing a substantial proportion of the estimated total) were reviewed individually and sometimes reduced. This will result in a possible downward bias in estimated totals.

Inclusion of the direct enumeration sample in 1978 resulted in a matching operation to identify names and addresses included in both the direct enumeration sample and the mail list. This matching operation was subjected to critical review and verification, including telephone calls to most respondents in the direct enumeration sample who were not matched in normal processing. Duplicates which were not identified during the matching process will result in an upward bias in estimated totals.

An adjustment was made for nonrespondent operations on the mail list. This adjustment employed sampling of both nonrespondent and respondent cases and variation from the adjustment is measured in sampling error; however, any systematic bias is not measured.

An evaluation of coverage is being conducted to measure the extent of undercount or overcount of farms in the census. A description of this evaluation is included in Census Coverage.

## **CENSUS COVERAGE**

Although a complete and fully accurate count of farms, farmland, and farm production is the aim of each nationwide census of agriculture, the complex structure of America's agriculture makes this aim difficult to achieve. Among the complexities are the many places to be included, the variety of arrangements under which farms are operated, the continuing

changes in the relationship of operators to the farm operated, the expiration of leases and the initiation or renewal of leases, the problem of obtaining a complete list of agricultural operations, the difficulty of locating and identifying some types of farms, the operator's absence from the farm during the data collection period, and the operator's opinion that part or all of the operation does not qualify and should not be included in the census.

An evaluation of coverage has been conducted for each census of agriculture since 1945. Although the primary purpose of these evaluations is to identify problem areas and supply evidence as a basis for improvements, they also provide users of census data with estimates of the completeness of census counts. The results of the coverage evaluation study were published for the 1974 census in Volume IV, Special Reports, part 3. This report included estimates of the net percentage of all farms missed in the census. Farm counts for 1974, adjusted for this net undercount, are shown in appendix C.

The inclusion of a direct enumeration sample to supplement the mail list for the 1978 census partially eliminates the major source of undercoverage of farms, namely, incompleteness of the mail list. However, inaccurate counting may still occur because (1) by design, the sample omitted the selection of area segments in places that had 2,500 or more population in 1970; (2) direct enumeration sample interviewers may have under counted or over counted farms; and (3) respondents may have been misclassified as farms or nonfarms during processing.

The coverage evaluation for the 1978 census includes a re-enumeration of a subsample of the direct enumeration segments with matching and verification of differences, identification of operators not included on the mail list in places with 2,500 or more population in 1970 using supplemental questions on the Annual Housing Survey, and verification of the farmnonfarm classification for a sample of respondents.

The changes in data collection procedures implemented for the 1978 census should substantially reduce undercoverage, and the proportion of farms not included in the census is expected to be between 2 and 3 percent for the United States. Results of the coverage evaluation and other evaluative material are included in volume 5.

## STATISTICAL ADJUSTMENTS

Report forms were obtained and tabulated for all the identified larger farms (in general, those with expected sales of \$80,000 or more). In the few instances where the operator did not supply the required information, data were obtained from secondary sources. By means of detailed, programed edit specifications, adjustments or corrections were made during the computer edit operation for internally incomplete or inconsistent data. The review procedures provided for computer printouts of edit changes that exceeded specified limits for the item. These changes were then reviewed for reasonableness by members of the processing staff and necessary corrections made.

### Nonresponse

The statistics for each State and county were adjusted to account for nonrespondent smaller operations. The number of

farms for which adjustment was made was estimated on the basis of the results of a canvass of a random sample of mail list addressees who did not respond to the census during the regular followup period. The canvass, using an abbreviated form, was accomplished with the use of the mail and telephone. The sample for each State was designed to provide estimates of the number of nonrespondent farms with a relative standard error of approximately 6 percent. However, approximately one third of the sample could not be contacted resulting in a potential bias in the estimates. The sample estimate of the number of nonrespondent farms at the State level was allocated to strata at the county level using the number of nonrespondents and the proportion of census farms among respondents. A sample of respondent data records was selected by stratum and weighted to represent the nonrespondent farms.

Table A shows for selected items for the State the percent of the published total that the whole farm nonresponse adjustment represents. Adjustment for individual item nonresponse on respondent forms is not included in the percentages. These percentages indicate the potential for bias in published figures resulting from nonresponse, i.e., the extent to which the actual data for nonrespondents may not agree with the nonresponse adjustments. The probable range of difference is unknown. However, the degree of uncertainty regarding the accuracy of the data increases as the percentage of the total represented by the nonrespondent adjustment increases.

### **Direct Enumeration Sample**

Because of undercoverage problems with the mail list for the 1969 and 1974 censuses, a direct enumeration area sample was included to supplement the mail list for the 1978 census. Enumeration district maps and data from the 1970 Census of Population and Housing were used to construct the sampling frame from which the direct enumeration sample was selected. The frame was stratified by State and by a farm density ratio (the ratio of farm households to total households). In this State, the selected sample consisted of 144 segments. The expected number of farms per segment varied by strata from none in residential areas to 12 in intensive farm areas and averaged about 10 farms. Farms enumerated in the direct enumeration sample were matched to the mail list and the data for the unmatched farms were weighted by the reciprocal of the probability of selection for the segment to make State estimates for farm operations not represented on the mail list.

Table A Percent of State Total Represented by Adjustment for Whole Farm Nonresponse: 1978

| Item .                              | Percent<br>of total |
|-------------------------------------|---------------------|
| Farms                               | 4.6                 |
| Land in farms                       | 3.5                 |
| Value of agricultural products sold | 1.9                 |
| Harvested cropland                  | 3.3                 |
| Corn for grain or seed acres        | 2.4                 |
| Wheat for grain acres               | 2.2                 |
| Inventory:                          | 2.8                 |
| Cattle and calves                   |                     |
| Hens and pullets of laying age      |                     |
| Hogs and pigs                       | 1.2                 |

## Mail List Sampling

To obtain county data for appropriate items without burdening all farm operators, data for Sections 22 through 27 of the report form 78-A1(S) were collected only from a sample of farms. The sample was selected from the mail list and consisted of all addresses in a certainty stratum and a random sample of addresses from the noncertainty stratum. The certainty stratum consisted of all addresses meeting specified size criteria in terms of indicated acreage and/or value of sales. Certainty size criteria varied by State from 1,000 to 5,000 indicated acres and from \$40,000 to \$200,000 indicated value of sales based on historic or mail list source data. All addresses in counties with less than 100 farms in 1974 were also selected as certainty. Noncertainty addresses in counties with 100 to 199 farms in 1974 were sampled at a rate of 1 in 2, and noncertainty addresses in counties with 200 farms or more in 1974 were sampled at a rate of 1 in 5.

Several elements of the sampling from the mail list and associated data collection may introduce substantial variation and a potential bias into the resulting data. First, the mail list from which the sample was selected contained about 50 percent nonfarm names and addresses which were not identifiable at the time of selection. Both farm and nonfarm names and addresses were selected into the sample. As a result, the farm data actually tabulated came only from part of the sample, specifically the names and addresses which represented farms. Secondly, the stratification was based on size information from several sources and of varying quality. Size information was not available for a substantial proportion of the names and addresses. In addition, sample and nonsample forms may have been returned at a different rate by respondents.

In order to improve the precision and minimize the bias of estimates from the sample, post-stratification was used to produce estimates. Basically, this consisted of classifying all farms into relatively homogenous strata and weighting sample farms within each stratum by the ratio of total farms to sample farms.

Farms meeting certainty size criteria during sample selection and those identified during processing as meeting similar criteria were assigned to a certainty stratum. All other farms were assigned to 64 strata. Farms with sales of less than \$2,500 were classified into eight size-of-farm groups (less than 10 acres, 10 to 49 acres, 50 to 69 acres, 70 to 99 acres, 100 to 199 acres, 200 to 259 acres, 260 to 499 acres, and 500 acres or more); within each of two value-of-sales groups (less than \$1,500 and \$1,500 to \$2,499); within each of two type-of-farm groups (crop or general farms and livestock or poultry farms). Farms with sales of \$2,500 or more were classified into four size-of-farm groups (less than 50 acres, 50 to 99 acres, 100 to 259 acres, and 260 acres or more); within each of the four value-of-sales groups (\$2,500 to \$4,999, \$5,000 to \$9,999, \$10,000 to \$19,999, and \$20,000 or more); within each of two type-of-farm groups (crop or general farms and livestock or poultry farms).

Each stratum was examined and collapsed into another stratum if (1) the stratum contained less than 20 sample farms; or (2) the calculated weight for the stratum was greater than 10 in counties sampled at a rate of 1 in 5 and greater than 4 in counties sampled at a rate of 1 in 2.

The post-stratification provided weights to be assigned to farms in each of the final collapsed strata such that the total of the weights for sample farms in the stratum would be equal to the total number of farms in the stratum.

Estimates were prepared for items in Sections 22 through 27 of the report form by multiplying the data for each item for each farm in the sample by the weight assigned to the farm. The weight for a certainty farm was 1.

## Reliability of Census Estimates

Sampling variability in census data may arise from several sources, some affecting all data and others affecting only certain items or geographic levels of tabulation.

The sampling involved in the imputation for nonrespondents affects all data items at all geographic levels of tabulation. However, farms above specified size limits were not eligible for selection to represent nonrespondents. The size limits varied by State from \$60,000 to \$150,000 and from 1,000 to 2,000 acres. As a result of these limits, the sampling variability arises primarily from smaller farms. For computing the estimates of variability due to weighting for nonresponse, the farms selected for weighting were considered to be a random sample of all farms in the stratum from which they were selected.

Estimates from the direct enumeration sample are not included in county totals but contribute to sampling variability of State totals for all data items.

The sample selected from the mail list provides estimated data only for Sections 22 through 27 of the report form. It contributes to sampling variability only for the items in these sections. Including the certainty farms and sample farms, data for Sections 22 through 27 were collected on approximately 26 percent of the farms nationwide.

Table B includes estimates of sampling reliability of State totals for a selected set of items. The estimates of sampling reliability for total number of farms, land in farms, harvested cropland, irrigated land, crops harvested, livestock, and value of agricultural products sold include components of variation for nonresponse imputation and for the direct enumeration sample. The component of variation for nonresponse imputation is relatively small and the direct enumeration sample is the major source of variation for these items. Estimates of sampling reliability for fertilizer use, chemical use, value of machinery and equipment, and value of land and buildings contain components of variation for the direct enumeration sample and the mail list sample.

Table C contains estimates of sampling reliability for the estimated number of farms in a county reporting an item in table D. These estimates of sampling reliability contain com-

ponents of variation arising from the mail list sample. The approximate standard error in percent may be read directly from the table based on the number of farms reporting the item. For a number of farms not shown in the table, a linear interpolation will provide a reasonable approximation. These estimates should not be applied to counties indicated to be certainty in table D.

Table D shows estimates of the sampling variability of selected items for each county and for the portion of the State total pertaining to farms not on the mail list. Estimates for county totals contain variation from the mail list sample and estimates for the portion not on the mail list contain variation from the direct enumeration sample. Items for counties indicated to be certainty in the table are subject to some sampling error but this is expected to be small and is not included. Items in county publications with data collected from all farms contain a component of variation from nonrespondent imputation. This component is usually small and is not shown in the sampling variability tables.

The sample estimates and the estimates of standard errors presented in tables B, C, and D permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples.

If all possible samples were selected, each of these surveyed under essentially the same conditions, and an estimate and its estimated standard error were calculated from each sample, then:

- a. Approximately 67 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average value of all possible samples.
- b. Approximately 95 percent of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average value of all possible samples.

For example, suppose the estimated number of farms in a State is 50,000 with a relative standard error of 3.0 percent. Then the standard error is 1,500 (3.0 percent of 50,000) and the chances are 2 out of 3 (67 percent) that complete coverage using the same survey methods would yield between 48,500 and 51,500 farms.

As calculated, the standard error also partially measures the effect of nonsampling errors but does not measure the effect of any systematic biases in the data arising from incorrect reporting by respondents, adjustments for nonresponse, incomplete unduplication, or incomplete coverage of farms.

Table B. Estimates of the Sampling Reliability of State Totals for Selected Items: 1978

|  | All far          | ms                       | Farms with sales of | \$2,500 or more          |
|--|------------------|--------------------------|---------------------|--------------------------|
| Item   | Quantity         | Standard error (percent) | Quantity            | Standard error (percent) |
| Farmsnumber.   | 9,895            | 3.0                      | 6,684               | 2.2                      |
| Land in farms  | 1,049,435        | 1.4                      | 932,066             | 1.5                      |
| Harvested croplandfarms.                               | 8,363            | 2.6                      | 6,081               | 2.4                      |
| acres  | 615,321          | 2.1                      | 582,086             | 2.2                      |
| Irrigated landfarms                                    | 1,813            | 3.9                      | 1,604               | 4.2                      |
| acres  | 77,698           | .7                       | 76,896              | 0.7                      |
| Agricultural products soldfarms                        | 9,895            | 2.6                      | 6,684               | 2.2                      |
| \$1,000  | 359,024          | .7                       | 353,275             | 2.6                      |
| Crops  | 7,072            | 2.4                      | 5,476<br>251,234    | .9                       |
| Livestock, poultry, and their productsfarms.           | 253,236<br>4,402 | 4.6                      | 2,736               | 2.8                      |
| \$1,000  | 105,789          | .9                       | 102,041             | . 9                      |
| Value of machinery and equipmentfarms                  | 9,845            | 3.0                      | 6,654               | 2.3                      |
| \$1,000  | 259,771          | 2.4                      | 232,635             | 2.5                      |
| Average value of land and buildings per farmdollars    | 285,722          | 2.6                      | 351,090             | 2.7                      |
| Corn for grain or seedfarms                            | 2,058            | 5.8                      | 1,643               | 6.6                      |
| acres  | 100,846          | 11.0                     | 97,194              | 11.0                     |
| bushels  | 9,412,531        | 15.0<br>3.2              | 9,189,237<br>544    | 1.6                      |
| Wheat for grainfarms                                   | 592<br>19,856    | 1.5                      | 19,240              | 1.2                      |
| acres bushels  | 720,783          | 1.9                      | 699,623             | 1.3                      |
| Soybean for beansfarms                                 | 1,836            | 4.1                      | 1,663               | 4.1                      |
| Soybean for beans                                      | 183,160          | 3.6                      | 180,863             | 3.7                      |
| bushels  | 5,439,806        | 2.3                      | 5,387,438           | 2.3                      |
| Cattle and calves inventoryfarms                       | 2,919            | 5.0                      | 1,925               | 6.7                      |
| number   | 99,624           | 1.0                      | 90,933              | .81<br>1.2               |
| Cattle and calves soldfarms                            | 2,393            | 3.6<br>2.4               | 1,633<br>52,380     | .8                       |
| number   | 56,773<br>15,133 | 1.4                      | 14,130              | 1.1                      |
| \$1,000  | 1,241            | 6.8                      | 726                 | 9.3                      |
| Hogs and pigs inventoryfarms  number                   | 75,916           | 1.6                      | 68,096              | 1.4                      |
| Hogs and pigs soldfarms.                               | 973              | 7.8                      | 615                 | 11.0                     |
| number\$1,000  | 115,286<br>9,894 | 2.4<br>1.8               | 109,143<br>9,448    | 2.4<br>1.8               |
|  | 503              | 4.4                      | 237                 | 3.0                      |
| Sheep and lambs inventory                              | 9,448            | 2.6                      | 5,799               | 2.1                      |
| Sheep and lambs soldfarms                              | 383              | 3.7                      | 187                 | 3.8                      |
| number   | 5,914            | 1.9                      | 3,559               | 2.4                      |
| Hens and pullets of laying age inventoryfarms          | 1,552            | 9.6                      | 725                 | 3.1                      |
| number   | 1,276,444<br>444 | 1.3                      | 1,237,884           | . 4.1                    |
| Hens and pullets of laying age sold                    | 1,064,675        | 1.0                      | 1,042,787           | .8                       |
|  | 6,694            | 2.6                      | 5,128               | 2.9                      |
| Commercial fertilizer usedfarmsacres                   | 495,051          | 2.9                      |                     | 3.0                      |
| Commercial fertilizer purchasedfarms.                  | 6,833            | 2.5                      | 5,209               | 2.8                      |
| \$1,000  | 20,172           | 3.5                      |                     | 3.6                      |
| Agricultural chemicals purchasedfarms                  | 6,649            | 3.1                      |                     | 2.9<br>2.2               |
| Φ1,000 (   | 10,439           | 2.1<br>3.5               |                     | 3.7                      |
| Chemicals used on crops for insect controlfarms        | 3,128            | 3.7                      |                     | 3.7                      |
| acres  | 170,405<br>1,680 | 7.8                      |                     | 4.1                      |
| Chemicals used on crops for disease controlfarms acres | 60,686           | 2.0                      |                     | 2.0                      |
| fa rma   | 9,561            | 3.1                      |                     | 2.4                      |
| Gasoline purchasedfarms 1,000 gallons                  | 16,202           | 3.4                      |                     | (NA)                     |
| \$1,000  | 9,448            | 3.5                      |                     | 3.7<br>3.5               |
| Diesel fuel purchasedfarms                             | 2,764            | 3.3<br>1.8               |                     | (NA)                     |
| 1,000 gallons<br>\$1,000                               | 6,876<br>3,389   | 1.9                      | 1                   | 1.9                      |
| Livestock and poultry purchased                        | 3,150            | 6.7                      |                     | 4.8                      |
| \$1,000  | 18,120           | 10.0                     | 15,386              | 9.0                      |
| Feed purchased   | 4,837            | 5.8                      |                     | 5.0                      |
| Φ1,000   | 34,153           | 2.6                      |                     | 2.2<br>2.1               |
| Hired farm laborfarms                                  | 3,990<br>56,512  | 2.1<br>1.5               |                     | 1.5                      |
| \$1,000  | 56,512           | 1                        | 34,,01              |                          |

# Table C. Estimates of the Sampling Reliability of Farms Reporting an Item in the County: 1978

| Farms reporting item | Standard error (percent)   | Farms reporting item | Standard error<br>(percent)                 |
|----------------------|----------------------------|----------------------|---|
| 25 farms             | 14.0<br>12.0<br>7.0<br>3.0 | 1,000 farms          | 0.5<br>(NA)<br>(NA)<br>(NA)<br>(NA)<br>(NA) |

Table D. Estimates of the Sampling Reliability of County Totals for Selected Items: 1978

| j   | Average   | Average value of Value of machinery and   |  |  |  |  | Chemicals used on crops for  |   |   |  |  |  |  |
|---|---|---|--|--|--|--|--|---|---|--|--|--|--|
| County  | land and b  | uildings  | Value of made  |  | Acres fer  | tilized  | Insect c   | ontrol  | Disease   | control  |  |  |  |
| councy  | Value<br>dollars  | Standard<br>error<br>(percent)  | Value  | Standard<br>error<br>(percent)   | Acres  | Standard<br>error<br>(percent)   | Acres  | Standard<br>error<br>(percent)  | Acres   | Standard<br>error<br>(percent)   |  |  |  |
|   | dollars   | (percent)   | (\$1,000)  | (percent)  | Acres  |  |  | (200000)  |   |  |  |  |  |
| Atlantic  | 138,419   | 3.8   | 10,922   | 4.2  | 12,323   | 3.5  | 8,317  | 4.6   | 6,788   | 2.5  |  |  |  |
| Bergen  | 453,683   | 3.5   | 2,495  | 4.9  | 830  | 6.9  | 561  | 14.0  | 516   | 14.0   |  |  |  |
| Burlington  | 414,011   | 6.6   | 24,704   | 5.4  | 59,962   | 7.4  | 22,748   | 11.0  | 8,501   | 7.8  |  |  |  |
| Camden  | 267,743   | 7.2   | 4,919  | 5.6  | 6,809  | 6.0  | 2,895  | 4.1   | 2,832   | 4.3  |  |  |  |
| Cape May  | 238,028   | .0  | 2,501  | .0   | 4,755  | .0   | 1,766  | .0  | 665   | .0   |  |  |  |
| Cumberland  | 209,894   | 2.6   | 22,650   | 3.4  | 47,979   | 3.8  | 24,566   | 4.9   | 9,583   | 5.6  |  |  |  |
| Essex   | 301,708   | .0  | 711  | .0   | 781  | .0   | 325  | .0  | 173   | .0   |  |  |  |
| Gloucester  | 271,825   | 14.0  | 24,101   | 3.9  | 39,745   | 4.3  | 19,752   | 6.2   | 11,667  | 4.9  |  |  |  |
| Hudson  | 183,500   | .0  | (a)  | (D)  | (D)  | (D)  | (a)  | (D)   | (D)   | (D)  |  |  |  |
| Hunterdon   | 293,481   | 5.4   | 25,681   | 4.3  | 50,334   | 6.3  | 9,743  | 13.0  | 1,374   | 16.0   |  |  |  |
| Mercer  | 538,196   | 7.9   | 9,606  | 9.6  | 28,754   | 7.9  | 4,582  | 11.0  | 647   | 34.0   |  |  |  |
| Middlesex   | 404,993   | 5.0   | 9,086  | 5.4  | 17,614   | 6.1  | 6,289  | 5.1   | 2,263   | 2.9  |  |  |  |
| Monmouth  | 354,046   | 6.2   | 19,228   | 5.9  | 40,069   | 7.2  | 18,804   | 4.5   | 4,861   | 7.1  |  |  |  |
| Morris  | 365,143   | 7.9   | 7,131  | 6.3  | 10,676   | 16.0   | 1,423  | 18.0  | 468   | 19.0   |  |  |  |
| Ocean   | 190,776   | 3.5   | 3,016  | 4.6  | 3,596  | 10.0   | 1,203  | 5.8   | 110   | 34.0   |  |  |  |
| Passaic   | 224,711   | .0  | 1,228  | .0   | 201  | .0   | 106  | .0  | 52  | .0   |  |  |  |
| Salem   | 249,695   | 4.0   | 27,247   | 3.4  | 68,422   | 3.4  | 22,948   | 5.6   | 6,538   | 2.5  |  |  |  |
| Somerset  | 451,815   | 8.3   | 12,198   | 12.0   | 24,279   | 20.0   | 3,254  | 1.5   | 330<br>825  | 25.0<br>18.0   |  |  |  |
| Sussex  | 345,645<br>348.346  | 5.7   | 11,856<br>(D)  | 5.5<br>(D)   | 19,586<br>194  | 5.1  | 4,232<br>82  | 8.0   | 102   | .0   |  |  |  |
| Union   | 326,711   | 4.2   | 19,292   | 5.7  | 38,962   | 5.0  | 14,840   | 9.7   | 1,905   | 3.9  |  |  |  |
| Farms not on mail list  | 145,905   | 19.0  | 20,487   | 25.0   | 19,178   | 57.0   | 1,968  | 24.0  | 484   | 35.0   |  |  |  |
| ±   |   |   |  |  |  |  |  |   |   |  |  |  |  |
|   |   |   |  |  | Farm producti  | on expenses  |  |   |   |  |  |  |  |
|   |   |   |  |  | Farm producti  |  |  |   |   |  |  |  |  |
| County  | Gasol   | ine   | Diesel   |  |  | d poultry  | Fee  | d   | Hired farm  | ı labor  |  |  |  |
| County  | Gasol   |   | Diesel   | fuel   | Livestock ar   | d poultry  | Fee  |   | Hired faru  |  |  |  |  |
| County  | Gasol<br>Expense<br>(\$1,000)   | ine Standard error (percent)  | Diesel<br>Expense<br>(\$1,000)   |  | Livestock ar   | d poultry  | Expense (\$1,000)  | Standard<br>error<br>(percent)  | Hired faru<br>Expense<br>(\$1,000)  | Standard<br>error<br>(percent)   |  |  |  |
|   | Expense (\$1,000)   | Standard<br>error<br>(percent)  | Expense (\$1,000)  | Standard<br>error<br>(percent)   | Livestock ar<br>purcha<br>Expense<br>(\$1,000)   | Standard<br>error<br>(percent)   | Expense (\$1,000)  | Standard<br>error<br>(percent)  | Expense (\$1,000)   | Standard<br>error<br>(percent)   |  |  |  |
| Atlantic  | Expense   | Standard<br>error   | Expense  | fuel<br>Standard<br>error  | Livestock ar<br>purcha   | d poultry<br>sed<br>Standard<br>error  | Expense  | Standard<br>error   | Expense (\$1,000)   | Standard<br>error<br>(percent)   |  |  |  |
|   | Expense (\$1,000)   | Standard<br>error<br>(percent)  | Expense (\$1,000)  | fuel Standard error (percent)  | Livestock ar purcha  Expense (\$1,000)   | Standard<br>error<br>(percent)   | Expense (\$1,000)  | Standard<br>error<br>(percent)  | Expense (\$1,000) 4,689 1,186   | Standard<br>error<br>(percent)   |  |  |  |
| AtlanticBergen  | Expense (\$1,000)   | Standard<br>error<br>(percent)<br>4.1<br>3.8  | Expense<br>(\$1,000)   | Standard<br>error<br>(percent)   | Livestock ar purchs  Expense (\$1,000)   | Standard error (percent)   | Expense (\$1,000)  685 239   | Standard<br>error<br>(percent)  | Expense (\$1,000)   | Standard error (percent)  2.6 3.1 2.1  |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113  | Standard<br>error<br>(percent)<br>4.1<br>3.8<br>4.4<br>5.2<br>.0                                    | Expense<br>(\$1,000)<br>162<br>7<br>376<br>32<br>64                                      | Standard<br>error<br>(percent)<br>2.9<br>4.6<br>7.4<br>5.7   | Expense (\$1,000)  239 64 920 51 49  | Standard error (percent)  19.0 4.8 3.8   | Expense<br>(\$1,000)<br>685<br>239<br>2,156  | Standard error (percent)  12.0 8.1 4.5  | Expense (\$1,000)  4,689 1,186 5,773  | Standard<br>error<br>(percent)   |  |  |  |
| Atlantic Bergen Burlington Camden Cape May Cumberland   | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981   | Standard error (percent)  4.1 3.8 4.4 5.2 .0 4.5  | Expense<br>(\$1,000)<br>162<br>7<br>376<br>32<br>64<br>333                               | Standard<br>error<br>(percent)<br>2.9<br>4.6<br>7.4<br>5.7<br>.0<br>4.4                            | Expense (\$1,000)  239 64 920 51 49 743  | Standard<br>error<br>(percent)<br>19.0<br>4.8<br>3.8<br>11.0<br>.0<br>4.9                              | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119   | Standard error (percent)  12.0 8.1 4.5 9.2  | Expense (\$1,000)  4,689 1,186 5,773 1,544  | Standard<br>error<br>(percent)<br>2.6<br>3.1<br>2.1<br>5.7   |  |  |  |
| Atlantic Bergen. Burlington. Camden. Cape May. Cumberland. Essex.   | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)  | Standard<br>error<br>(percent)  4.1 3.8 4.4 5.2 .0 4.5 (D)  | Expense<br>(\$1,000)<br>162<br>7<br>376<br>32<br>64<br>333<br>(D)                        | Standard<br>error<br>(percent)<br>2.9<br>4.6<br>7.4<br>5.7<br>.0<br>4.4<br>(D)                     | Expense (\$1,000)  239 64 920 51 49 743  | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9   | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127   | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4   | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)   | Standard error (percent)  2.6 3.1 2.1 5.7 .0   |  |  |  |
| Atlantic Bergen Burlington Camden Cape May Cumberland Essex Gloucester  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086   | Standard<br>error<br>(percent)<br>4.1<br>3.8<br>4.4<br>5.2<br>.0<br>4.5<br>(D)<br>3.0               | Expense<br>(\$1,000)<br>162<br>7<br>376<br>32<br>64<br>333                               | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8   | Expense (\$1,000)  239 64 920 51 49 743  | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 2.6   | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119   | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2                                      | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118  | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2   |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May. Cumberland. Essex. Gloucester. Hudson.  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)  | Standard<br>error<br>(percent)<br>4.1<br>3.8<br>4.4<br>5.2<br>.0<br>4.5<br>(D)<br>3.0<br>(D)        | Expense (\$1,000)  162 7 376 32 64 333 (D) 360   | Standard<br>error<br>(percent)<br>2.9<br>4.6<br>7.4<br>5.7<br>.0<br>4.4<br>(D)<br>2.8              | Expense<br>(\$1,000)<br>239<br>64<br>920<br>51<br>49<br>743<br>18<br>1,996                         | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6  | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127   | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2                                      | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)   | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D)   |  |  |  |
| Atlantic Bergen Burlington Camden Cape May Cumberland Essex Gloucester  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086   | Standard<br>error<br>(percent)<br>4.1<br>3.8<br>4.4<br>5.2<br>.0<br>4.5<br>(D)<br>3.0               | Expense<br>(\$1,000)<br>162<br>7<br>376<br>32<br>64<br>333<br>(D)                        | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8   | Expense (\$1,000)  239 64 920 51 49 743  | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 2.6   | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127   | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2                                      | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118  | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2   |  |  |  |
| Atlantic Bergen. Burlington. Camden. Cape May Cumberland. Essex. Gloucester. Hudson.  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764   | Standard<br>error<br>(percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8                              | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272                                     | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5                                    | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082   | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3                                       | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2 .0 3.6                               | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159  | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6                                       |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May. Cumberland. Essex. Gloucester. Hudson. Hunterdon.   | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764   | Standard<br>error<br>(percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8                              | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 272                                       | Standard<br>error<br>(percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3                          | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082   | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 5.3  | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>-<br>3,788  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.6 13.0                                 | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159  | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.11 (D) 5.2 (D) 6.6                                      |  |  |  |
| Atlantic Bergen. Burlington. Camden. Cape May Cumberland. Essex Gloucester. Hudson.   | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764   | Standard<br>error<br>(percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8                              | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272                                     | Standard<br>error<br>(percent)<br>2.9<br>4.6<br>7.4<br>5.7<br>.0<br>4.4<br>(D)<br>2.8<br>.0<br>7.5 | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082   | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3                                       | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>-<br>3,788  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2 .0 3.6                               | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928  | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5                               |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May. Cumberland. Essex Gloucester. Hudson. Hunterdon. Mercer. Middlesex.   | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316   | Standard<br>error<br>(percent)<br>4.1<br>3.8<br>4.4<br>5.2<br>.0<br>4.5<br>(D)<br>3.0<br>(D)<br>4.8 | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272 103 131                             | Standard<br>error<br>(percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3                          | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082   | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3 19.0 12.0 20.0                        | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>1,749<br>-<br>3,788<br>709<br>538<br>2,774  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2 .0 3.6 13.0 24.0                     | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265   | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6                           |  |  |  |
| Atlantic Bergen. Burlington. Camden. Cape May. Cumberland. Essex. Gloucester. Hudson. Hunterdon. Mercer. Middlesex. Mommouth  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316<br>829  | Standard<br>error<br>(percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8 6.7 5.4 5.0                  | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272 103 131 289                         | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3 1.1 6.2                        | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082 193 224 1,411                             | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3                                       | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>-<br>3,788  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2 .0 3.6                               | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322  | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0                      |  |  |  |
| Atlantic. Bergen. Burlington Camden. Cape May Cumberland. Essex Gloucester. Hudson. Hunterdon. Mercer. Middlesex Monmouth. Morris.  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316<br>829<br>246   | Standard error (percent)  4.1 3.8 4.4 5.2 0 4.5 (D) 3.0 (D) 4.8 6.7 5.4 5.0 8.6                     | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272 103 131 289 84                      | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3 1.1 6.2 9.9                    | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082 193 224 1,411 615                         | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3 19.0 12.0 20.0 21.0                   | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>-3,788<br>709<br>538<br>2,774<br>1,093  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.6 13.0 24.0 4.5 12.0                   | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322<br>397                                   | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0                      |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May Cumberland. Essex Gloucester. Hudson. Hunterdon.  Mercer. Middlesex. Monmouth Morris. Ocean.                                     | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>764<br>274<br>316<br>829<br>246<br>114  | Standard<br>error<br>(percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8 6.7 5.4 5.0 8.6 4.0          | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272 103 131 289 84 48                   | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5  8.3 1.1 6.2 9.9 9.5               | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 2,082 193 224 1,411 615 318                       | Standard error (percent)  19.0 4.8 3.8 11.0 .0 2.6 .0 5.3 19.0 12.0 20.0 21.0 5.1                      | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>3,788<br>709<br>538<br>2,774<br>1,093<br>943  | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.6 13.0 24.0 4.5 12.0 8.1               | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322<br>397<br>295                            | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0 13.0                 |  |  |  |
| Atlantic Bergen Burlington Camden Cape May Cumberland Essex Gloucester Hudson Hunterdon Mercer Middlesex Monmouth Morris Ocean Passatc  | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316<br>829<br>246<br>114                                  | Standard error (percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8 6.7 5.4 5.0 8.6 4.0                | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 272 103 131 289 84 48 1                   | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3 1.1 6.2 9.9 9.5                | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 2,082 193 224 1,411 615 318 161                   | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3 19.0 12.0 20.0 21.0 5.1               | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>3,788<br>709<br>538<br>2,774<br>1,093<br>943<br>204                                 | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2 .0 3.6 13.0 24.0 4.5 12.0 8.1        | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322<br>397<br>295<br>5,086                   | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0 13.0 .0 1.8          |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May. Cumberland. Essex Gloucester. Hudson. Hunterdon.  Mercer. Middlesex. Monmouth. Morris. Ocean. Passaic. Salem. Somerset. Sussex. | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316<br>829<br>246<br>114<br>44<br>880<br>306<br>382       | Standard error (percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8 6.7 5.4 5.0 8.6 4.0 .0 3.2 7.0 4.9 | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 272  103 131 289 84 48 1 462 124 155      | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3 1.1 6.2 9.9 9.5 5.8 20.0 5.9   | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082 193 224 1,411 615 318 161 1,265           | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 .0 5.3 19.0 12.0 20.0 21.0 5.1 .0 4.3        | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>1,879<br>-<br>3,788<br>709<br>538<br>2,774<br>1,093<br>943<br>204<br>4,525                          | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.2 .0 3.6 13.0 24.0 4.5 12.0 8.1 .0 3.1 | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322<br>397<br>295                            | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0 13.0                 |  |  |  |
| Atlantic. Bergen. Burlington. Camden. Cape May Cumberland Essex Gloucester. Hudson. Hunterdon.  Mercer. Middlesex. Mommouth Morris. Ocean Passaic Salem Somerset Sussex. Union. | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316<br>829<br>246<br>114<br>44<br>880<br>306<br>382<br>68 | Standard error (percent)  4.1 3.8 4.4 5.2 0 4.5 (D) 4.8 6.7 5.4 5.0 8.6 4.0 0 3.2 2 7.0             | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 - 272 103 131 289 84 48 1 462 124 155 (D) | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3 1.1 6.2 9.9 9.5 .0 5.8 20.0    | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 - 2,082  193 224 1,411 615 318 161 1,265 1,594    | Standard error (percent)  19.0 4.8 3.8 11.0 .0 2.6 .0 5.3 19.0 12.0 20.0 21.0 5.1 .0 4.3               | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>3,788<br>709<br>538<br>2,774<br>1,093<br>943<br>204<br>4,525<br>2,884               | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.6 13.0 24.0 4.5 12.0 8.1 .0 3.1 5.6    | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322<br>397<br>295<br>5,086<br>1,854<br>1,169 | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0 13.0 .0 1.8 10.0 7.1 |  |  |  |
| Atlantic Bergen Burlington Camden Cape May Cumberland Essex Gloucester Hudson Hunterdon  Mercer Middlesex Monmouth Morris Ocean Passaic Salem Somerset Sussex                   | Expense<br>(\$1,000)<br>604<br>99<br>798<br>172<br>113<br>981<br>(D)<br>1,086<br>(D)<br>764<br>274<br>316<br>829<br>246<br>114<br>44<br>880<br>306<br>382       | Standard error (percent)  4.1 3.8 4.4 5.2 .0 4.5 (D) 3.0 (D) 4.8 6.7 5.4 5.0 8.6 4.0 .0 3.2 7.0 4.9 | Expense (\$1,000)  162 7 376 32 64 333 (D) 360 272  103 131 289 84 48 1 462 124 155      | Standard error (percent)  2.9 4.6 7.4 5.7 .0 4.4 (D) 2.8 .0 7.5 8.3 1.1 6.2 9.9 9.5 5.8 20.0 5.9   | Expense (\$1,000)  239 64 920 51 49 743 18 1,996 2,082 193 224 1,411 615 318 161 1,265 1,594 1,286 | Standard error (percent)  19.0 4.8 3.8 11.0 .0 4.9 .0 2.6 6.6 .0 5.3 19.0 12.0 20.0 21.0 4.3 15.0 13.0 | Expense<br>(\$1,000)<br>685<br>239<br>2,156<br>82<br>119<br>1,549<br>127<br>1,879<br>-<br>3,788<br>709<br>538<br>2,774<br>1,093<br>943<br>204<br>4,525<br>2,884<br>4,053 | Standard error (percent)  12.0 8.1 4.5 9.2 .0 3.4 .0 3.6 13.0 24.0 4.5 12.0 8.1 .0 3.1        | Expense<br>(\$1,000)<br>4,689<br>1,186<br>5,773<br>1,544<br>435<br>7,924<br>(D)<br>7,118<br>(D)<br>2,159<br>1,210<br>4,928<br>5,265<br>1,322<br>397<br>295<br>5,086<br>1,854          | Standard error (percent)  2.6 3.1 2.1 5.7 .0 7.1 (D) 5.2 (D) 6.6 7.3 2.5 2.6 10.0 13.0 .0 1.8          |  |  |  |

APPENDIX B. Farms by Current and Prior Definitions and Value of Agricultural Products Sold: 1978 and 1974

|                        | Defini   | tion used to  | r 1974 and 197  | 8  | Definitio   | n used for 1  | 959, 1964, and  | 1969   | Operations excluded by current definition but not by 1959 definition |   |  |  |
|------------------------|--|---|---|--|---|---|---|--|--|---|--|--|
| •                      | Farms  |   | Farms Value of products sold (\$1,000)  |  | Farms   |   | Value of pro<br>(\$1,0  |  | Farms  |   | Value of products sold<br>(\$1,000)                    |  |
|                        | 1978   | 1974  | 1978  | 1974   | 1978  | 1974  | 1978  | 1974   | 1978   | 1974  | 1978   | 1974   |
| New Jersey             | 9 895  | 7 409   | 359 024   | 297 216  | 12 566  | 8 092   | 360 003   | 297 444  | 2 671  | 683   | 979  | 228  |
| Atlantic               | 404<br>144<br>717<br>160<br>108<br>610<br>38<br>701<br>2         | 372<br>157<br>708<br>146<br>81<br>580<br>34<br>671<br>3                 | 27 505<br>6 999<br>37 634<br>7 988<br>2 957<br>40 218<br>1 565<br>34 978<br>113<br>22 151             | 21 877<br>5 126<br>32 230<br>5 966<br>2 632<br>35 014<br>1 150<br>34 995<br>241<br>19 081          | 436<br>166<br>789<br>183<br>125<br>669<br>41<br>754<br>4                | 393<br>167<br>746<br>160<br>93<br>625<br>36<br>718<br>3<br>1 057        | 27 518<br>7 008<br>37 664<br>7 996<br>2 963<br>40 243<br>1 566<br>34 996<br>114<br>22 263             | 21 885<br>5 131<br>32 241<br>5 969<br>2 637<br>35 029<br>1 151<br>35 010<br>241<br>19 124          | 32<br>22<br>72<br>72<br>23<br>17<br>59<br>3<br>53<br>2<br>2          | 21<br>10<br>38<br>14<br>12<br>45<br>2<br>47<br>-<br>127 | 13<br>9<br>30<br>8<br>6<br>25<br>1<br>18<br>1          | 8<br>5<br>11<br>3<br>5<br>15<br>1<br>15<br>-<br>43 |
| Mercer                 | 297<br>268<br>732<br>355<br>173<br>49<br>613<br>391<br>539<br>35 | 291<br>273<br>669<br>302<br>147<br>50<br>601<br>378<br>463<br>46<br>507 | 9 820<br>18 234<br>29 549<br>8 759<br>3 451<br>2 045<br>38 698<br>12 638<br>16 622<br>5 904<br>22 466 | 9 750<br>15 655<br>25 959<br>7 418<br>3 762<br>925<br>33 181<br>8 011<br>11 901<br>5 074<br>17 269 | 352<br>299<br>866<br>415<br>207<br>66<br>667<br>484<br>636<br>39<br>620 | 314<br>289<br>756<br>335<br>172<br>51<br>638<br>419<br>517<br>46<br>557 | 9 847<br>18 250<br>29 596<br>8 785<br>3 464<br>2 052<br>38 713<br>12 677<br>16 669<br>5 906<br>22 495 | 9 759<br>15 661<br>25 985<br>7 431<br>3 769<br>925<br>33 194<br>8 027<br>11 917<br>5 074<br>17 285 | 55<br>31<br>134<br>60<br>34<br>17<br>54<br>93<br>97<br>4             | 23<br>16<br>87<br>33<br>25<br>1<br>37<br>41<br>54       | 27<br>16<br>47<br>26<br>13<br>7<br>15<br>39<br>47<br>1 | 9<br>6<br>26<br>13<br>7<br>(Z)<br>13<br>16<br>16   |
| Farms not on mail list | 1 911  | (NA)  | 8 730   | (NA)   | 3 397   | (NA)  | 9 218   | (NA)   | 1 486  | (NA)  | 488  | (NA)   |

# APPENDIX C. Comparison of 1974 Farm Counts With 1978 Farm Counts

The 1978 Census of Agriculture preliminary reports show that there are 2,475,171 farms in the continental United States (excluding Alaska and Hawaii). In 1974 there were 2,310,702 farms reported. However, these figures are not directly comparable because improvements in methodology and coverage account significantly for the higher 1978 counts. If the improved 1978 procedures had been used in 1974, an estimated 2.6 million farms would have been included in the census. It should be noted that farms missed in the 1974 census were generally small and affected the farm count to a greater degree than other data. The missed farms accounted for about 5 percent of the land in farms and 3 percent of the total value of agricultural products sold. This appendix briefly describes census procedures and provides 1974 farm counts adjusted for net missed farms and compared with 1978 farm counts.

The State totals from the 1978 Census of Agriculture are based on two separate sources.

The primary source is the mail portion of the census. As in the 1974 and 1969 censuses, this part of the operation involved mailing out a report form to each name believed to be associated with agriculture. Mail and telephone followups were used to secure the highest possible rate of return of completed forms from the operators of the Nation's farms.

However, the evaluation studies conducted show that some farms were missed in the 1974 and 1969 censuses. Despite every effort to assemble a complete list, some operators did not get on the mail list.

To improve the coverage of the 1978 census, additional mail list sources were used. Also, recognizing the short-comings of the mail method, especially in counting the number of small farms, it was decided to take another step to ensure a more complete count.

The second step involved conducting a complete enumeration of all households in approximately 6,400 sample segments in rural areas in all States, except Alaska and Hawaii. Farms enumerated in this sample were matched to the mail list. The sample farms not located on the mail list provided reliable estimates by State of the number and characteristics of the farms not represented in the mail portion of the census.

Estimates for such farms are an integral part of the State counts in 1978, but they are not a part of the county counts. The sample was not large enough to provide reliable estimates for each county.

Because of the procedures described above, the State counts for 1978 are not directly comparable with the counts for 1974 and 1969.

To bridge the gap between the 1974 and the 1978 farm counts, this appendix provides adjusted farm counts for 1974 which are approximately comparable with farm counts for 1978.

The adjustment factors are based on data from table 13 of 1974 Census of Agriculture volume IV, Part 3, Coverage Evaluation, which presented data showing the estimated percent of farms missed and overcounted by regions and States. The estimated net percent of farms missed was derived by subtracting overcounted farms from missed farms.

The 1974 coverage evaluation did not include Alaska and Hawaii; thus the 1978 and the 1974 data for these States are exclusively from farms on the mail list. Improvements in the 1978 mail list, especially for Hawaii, have contributed to the increased farm counts.

Table A presents adjusted 1974 farm counts by value of agricultural products sold categories. For each State, the adjusted farm counts for the two value-of-sales categories were derived using the 1974 published farm counts and the net percent missed. The adjusted counts for the two size categories were then added together to obtain the adjusted State count. The State counts were summed to obtain division, region, and U.S. level counts. As a result, adjusted counts derived by summation may not be exactly consistent with the indicated percent missed. The 1978 farm counts are from the preliminary reports and may differ slightly from final counts.

Table B shows 1974 reported and adjusted counts compared with 1978 counts for regions by farm size and tenure of operator categories. Adjusted counts in these tables were proportionally adjusted to regional counts from table A and summed to the U.S. level. As a result, the indicated percent missed will not always agree with adjusted data.

All data published in 1974 were based on reported numbers. The adjusted counts should be used only for comparison with 1978 counts and not for comparison with other 1974 data.

Both the 1974 and 1978 farm counts are subject to sampling variability. For 1974, the coefficient of variation for the adjusted farm counts is approximately 0.4 percent at the U.S. level and ranges from 1.0 percent to 6.0 percent for individual States. Measures of sampling variability for 1978 counts are presented in appendix A.

Table A Farms by Areas and Value of Agricultural Products Sold: 1978 and 1974

|  |                          |           | Farms, 1974           |           | Percent change,          |
|--|--------------------------|-----------|-----------------------|-----------|--------------------------|
|  | Farms, 1978 <sup>1</sup> | Published | Net percent<br>missed | Adjusted  | adjusted 1974<br>to 1978 |
| United States <sup>2</sup>   | 2,475,171                | 2,310,702 | 10.7                  | 2,622,416 | -5.6                     |
| Farms with sales of— \$100,000 or more \$40,000 to \$99,999. \$20,000 to \$39,999. \$10,000 to \$19,999. \$5,000 to \$9,999. \$22,500 to \$4,999. Less than \$2,500. | 223,268                  | 152,850   | -2.0                  | 149,471   | +49.4                    |
|  | 364,010                  | 324,417   | 1.1                   | 327,834   | +11.0                    |
|  | 306,483                  | 321,733   | 2.0                   | 327,438   | -6.4                     |
|  | 309,250                  | 309,876   | 5.8                   | 326,852   | -5.4                     |
|  | 330,464                  | 296,043   | 8.1                   | 322,002   | +2.6                     |
|  | 331,329                  | 289,511   | 11.4                  | 326,432   | +1.5                     |
|  | 610,367                  | 616,272   | 25.9                  | 842,387   | -27.5                    |
| NortheastFarms with sales of   | 149,385                  | 127,531   | 16.5                  | 152,730   | -2.2                     |
| \$100,000 or more  | 12,699                   | 8,003     | 1.9                   | 8,282     | +53.3                    |
| \$40,000 to \$99,999.  | 25,835                   | 22,358    | 4.7                   | 23,812    | +8.5                     |
| \$20,000 to \$39,999.  | 15,820                   | 20,543    | 9.8                   | 21,019    | -24.7                    |
| \$10,000 to \$19,999.  | 14,194                   | 14,900    | 9.5                   | 14,680    | -3.3                     |
| \$5,000 to \$9,999.  | 16,734                   | 13,173    | 3.1                   | 13,797    | +21.3                    |
| \$2,500 to \$4,999.  | 19,609                   | 13,148    | 16.7                  | 16,019    | +22.4                    |
| Less than \$2,500.   | 44,494                   | 35,406    | 35.5                  | 55,121    | -19.3                    |
| North Central  | 1,027,319                | 1,017,367 | 6.3                   | 1,096,353 | -6.3                     |
| \$100,000 or more.   | 106,649                  | 69,440    | -3.1                  | 67,123    | +58.9                    |
| \$40,000 to \$99,999.  | 215,707                  | 192,962   | .2                    | 192,692   | +11.9                    |
| \$20,000 to \$39,999.  | 173,422                  | 194,488   | 2.3                   | 198,391   | -12.6                    |
| \$10,000 to \$19,999.  | 148,064                  | 165,864   | 4.0                   | 172,189   | -14.0                    |
| \$5,000 to \$9,999.  | 126,879                  | 131,677   | 6.1                   | 139,755   | -9.2                     |
| \$2,500 to \$4,999.  | 103,363                  | 103,914   | 10.6                  | 115,841   | -10.8                    |
| Less than \$2,500.   | 153,235                  | 159,022   | 23.0                  | 210,362   | -27.2                    |
| SouthFarms with sales of   | 1,016,070                | 930,099   | 15.2                  | 1,107,200 | -8.2                     |
| \$100,000 or more.   | 67,430                   | 45,765    | -2.7                  | 44,568    | +51.3                    |
| \$40,000 to \$99,999.  | 84,887                   | 73,981    | 3.2                   | 76,455    | +11.0                    |
| \$20,000 to \$39,999.  | 85,965                   | 75,791    | 1.6                   | 77,051    | +11.6                    |
| \$10,000 to \$19,999.  | 116,407                  | 99,629    | 8.2                   | 108,567   | +7.2                     |
| \$5,000 to \$9,999.  | 155,115                  | 124,106   | 10.4                  | 138,561   | +11.9                    |
| \$2,500 to \$4,999.  | 174,997                  | 145,243   | 11.6                  | 164,350   | +6.5                     |
| Less than \$2,500.   | 331,269                  | 365,584   | 25.5                  | 497,648   | -33.4                    |
| West <sup>2</sup> Farms with sales of  | 282,397                  | 235,705   | 9.5                   | 266, 133  | +6.1                     |
| \$100,000 or more.   | 36,490                   | 29,642    | .2                    | 29,498    | +23.7                    |
| \$40,000 to \$99,999.  | 37,581                   | 35,116    | .0                    | 34,875    | +7.8                     |
| \$20,000 to \$39,999.  | 31,274                   | 30,911    | .9                    | 30,977    | +1.0                     |
| \$10,000 to \$19,999.  | 30,587                   | 29,483    | 6.8                   | 31,416    | -2.6                     |
| \$5,000 to \$9,999.  | 31,736                   | 27,087    | 10.0                  | 29,889    | +6.2                     |
| \$2,500 to \$4,999.  | 33,360                   | 27,206    | 10.6                  | 30,222    | +10.4                    |
| Less than \$2,500.   | 81,369                   | 56,260    | 27.8                  | 79,256    | +2.7                     |
| New England <sup>3</sup>   | 30,157                   | 23,269    | 17.8                  | 28,548    | +5.6                     |
|  | 18,844                   | 16,667    | 5.2                   | 17,517    | +7.6                     |
|  | 11,313                   | 6,602     | 39.6                  | 11,031    | +2.6                     |
| Middle Atlantic  | 119,228                  | 104, 262  | 16.2                  | 124,182   | -4.0                     |
|  | 86,047                   | 75, 458   | 5.7                   | 80,092    | +7.4                     |
|  | 33,181                   | 28, 804   | 34.6                  | 44,090    | -24.7                    |
| New York  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500   | 49,323                   | 43,682    | 14.2                  | 50,847    | -3.0                     |
|  | 35,095                   | 32,230    | 4.3                   | 33,678    | +4.2                     |
|  | 14,228                   | 11,452    | 33.3                  | 17,169    | -17.1                    |
| New Jersey  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500   | 9,932                    | 7,409     | 14.5                  | 8,760     | +13.4                    |
|  | 6,742                    | 5,530     | 4.5                   | 5,791     | +16.4                    |
|  | 3,190                    | 1,879     | 36.7                  | 2,969     | +7.4                     |
| Pennsylvania  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500   | 59,973                   | 53,171    | 18.3                  | 64,575    | -7.1                     |
|  | 44,210                   | 37,698    | 7.2                   | 40,623    | +8.8                     |
|  | 15,763                   | 15,473    | 35.4                  | 23,952    | -34.2                    |
| East North Central  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500   | 452,213                  | 444,695   | 7.1                   | 486,098   | -7.0                     |
|  | 366,051                  | 360,619   | 2.9                   | 371,995   | -1.6                     |
|  | 86,162                   | 84,076    | 24.1                  | 114,103   | -24.5                    |
| Ohio  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500   | 95,821                   | 92,158    | 4.9                   | 96,899    | -1.1                     |
|  | 73,841                   | 70,338    | 2.1                   | 71,847    | +2.8                     |
|  | 21,980                   | 21,820    | 12.9                  | 25,052    | -12.3                    |
| Indiana  | 88,458                   | 87,915    | 7.2                   | 95,341    | -7.2                     |
|  | 71,681                   | 70,986    | 3.6                   | 73,637    | -2.7                     |
|  | 16,777                   | 16,929    | 22.0                  | 21,704    | -22.7                    |
| Illinois Farms with sales of \$2,500 or more Farms with sales of less than \$2,500   | 109,770                  | 111,049   | 9.1                   | 126,295   | -13.1                    |
|  | 96,389                   | 97,738    | 3.8                   | 101,599   | -5.1                     |
|  | 13,381                   | 13,311    | 46.1                  | 24,696    | -45.8                    |

Table A Farms by Areas and Value of Agricultural Products Sold: 1978 and 1974 - Con.

| Γ   |                          |           | Farms, 1974           |          | Percent change,          |
|---|--------------------------|-----------|-----------------------|----------|--------------------------|
|   | Farms, 1978 <sup>1</sup> | Published | Net percent<br>missed | Adjusted | adjusted 1974<br>to 1978 |
| East North CentralCon.  |                          |           |                       |          |                          |
| Michigan Farms with sales of \$2,500 or more Farms with sales of less than \$2,500                            | 68,158                   | 64,094    | 9.9                   | 71,213   | -4.3                     |
|   | 47,767                   | 46,670    | 6.0                   | 49,649   | -3.8                     |
|   | 20,391                   | 17,424    | 19.2                  | 21,564   | -5.4                     |
| Wisconsin   | 90,006                   | 89,479    | 5.3                   | 96,350   | -6.6                     |
|   | 76,373                   | 74,887    | .5                    | 75,263   | +1.5                     |
|   | 13,633                   | 14,592    | 30.8                  | 21,087   | -35.3                    |
| West North Central  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                | 575,106                  | 572,672   | 5.6                   | 610,255  | -5.8                     |
|   | 508,033                  | 497,726   | 3.2                   | 513,996  | -1.2                     |
|   | 67,073                   | 74,946    | 21.8                  | 96,259   | -30.3                    |
| Minnesota   | 102,984                  | 98,537    | 9.0                   | 108,614  | -5.2                     |
|   | 87,753                   | 85,926    | 5.5                   | 90,927   | -3.5                     |
|   | 15,231                   | 12,611    | 28.7                  | 17,687   | -13.9                    |
| Iowa  | 126,379                  | 126,104   | 4.4                   | 133,125  | -5.1                     |
|   | 117,704                  | 117,142   | 3.2                   | 121,014  | -2.7                     |
|   | 8,675                    | 8,962     | 26.0                  | 12,111   | -28.4                    |
| Missouri  | 121,826                  | 115,711   | 9.6                   | 128,948  | -5.5                     |
|   | 97,848                   | 82,421    | 4.7                   | 86,486   | +13.1                    |
|   | 23,978                   | 33,290    | 21.6                  | 42,462   | -43.5                    |
| North Dakota  | 41,172                   | 42,710    | 4.4                   | 45,649   | -9.8                     |
|   | 38,914                   | 40,681    | 3.2                   | 42,026   | -7.4                     |
|   | 2,258                    | 2,029     | 44.0                  | 3,623    | -37.7                    |
| South Dakota  | 39,667                   | 42,825    | 1.5                   | 43,420   | -8.6                     |
|   | 36,927                   | 39,849    | 1.6                   | 40,497   | -8.8                     |
|   | 2,740                    | 2,976     | -1.8                  | 2,923    | -6.3                     |
| Nebraska  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                          | 65,991                   | 67,597    | .7                    | 68,480   | -3.6                     |
|   | 61,507                   | 62,594    | .0                    | 62,594   | -1.7                     |
|   | 4,484                    | 5,003     | 15.0                  | 5,886    | -23.8                    |
| Kansas  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                            | 77,087                   | 79,188    | 3.7                   | 82,019   | -6.0                     |
|   | 67,380                   | 69,113    | 1.9                   | 70,452   | -4.4                     |
|   | 9,707                    | 10,075    | 12.9                  | 11,567   | -16.1                    |
| South Atlantic  | 325,678                  | 296, 103  | 16.6                  | 362,451  | -10.1                    |
|   | 216,297                  | 189, 339  | 7.0                   | 203,934  | +6.1                     |
|   | 109,381                  | 106, 764  | 30.3                  | 158,517  | -31.0                    |
| Delaware and Maryland <sup>3</sup> Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500 | 22,600                   | 18,563    | 7.1                   | 19,952   | +13.3                    |
|   | 17,287                   | 14,592    | 3.0                   | 15,043   | +14.9                    |
|   | 5,313                    | 3,971     | 19.1                  | 4,909    | +8.2                     |
| Virginia  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                          | 56,685                   | 52,699    | 13.5                  | 61,636   | -8.0                     |
|   | 38,416                   | 31,738    | 4.5                   | 33,234   | +15.6                    |
|   | 18,269                   | 20,961    | 26.2                  | 28,402   | -35.7                    |
| West Virginia  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                     | 20,619                   | 16,909    | 33.0                  | 26,195   | -21.3                    |
|   | 9,603                    | 6,122     | 11.7                  | 6,933    | +38.5                    |
|   | 11,016                   | 10,787    | 44.0                  | 19,262   | -42.8                    |
| North Carolina  | 89,477                   | 91,280    | 14.1                  | 105,774  | -15.4                    |
|   | 64,897                   | 62,518    | 9.2                   | 68,852   | -5.7                     |
|   | 24,580                   | 28,762    | 22.1                  | 36,922   | -33.4                    |
| South Carolina  | 33,450                   | 29,275    | 22.8                  | 43,034   | -22.3                    |
|   | 18,979                   | 17,534    | .8                    | 17,675   | +7.4                     |
|   | 14,471                   | 11,741    | 53.7                  | 25,359   | -42.9                    |
| Georgia Farms with sales of \$2,500 or more Farms with sales of less than \$2,500                             | 58,682                   | 54,911    | 13.2                  | 63,133   | -7.1                     |
|   | 38,906                   | 35,874    | 8.1                   | 39,036   | 3                        |
|   | 19,776                   | 19,037    | 21.0                  | 24,097   | -17.9                    |
| Florida Farms with sales of \$2,500 or more Farms with sales of less than \$2,500                             | 44,165                   | 32,466    | 22.6                  | 42,727   | +3.4                     |
|   | 28,209                   | 20,961    | 9.5                   | 23,161   | +21.8                    |
|   | 15,956                   | 11,505    | 41.2                  | 19,566   | -18.5                    |
| East South Central  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                | 318,640                  | 306,010   | 14.8                  | 360,164  | -11.5                    |
|   | 211,915                  | 171,372   | 7.8                   | 185,880  | +14.0                    |
|   | 106,725                  | 134,638   | 22.3                  | 174,284  | -38.8                    |
| Kentucky  | 110,002                  | 102,053   | 10.5                  | 113,897  | -3.4                     |
|   | 83,433                   | 67,662    | 6.3                   | 72,211   | +15.5                    |
|   | 26,569                   | 34,391    | 17.5                  | 41,686   | -36.3                    |
| Tennessee  Farms with sales of \$2,500 or more  Farms with sales of less than \$2,500                         | 96,792                   | 93,659    | 18.8                  | 115,683  | -15.3                    |
|   | 63,407                   | 48,320    | 11.2                  | 54,414   | +16.3                    |
|   | 33,385                   | 45,339    | 26.0                  | 61,269   | -45.5                    |

See footnotes at end of table.

Table A. Farms by Areas and Value of Agricultural Products Sold: 1978 and 1974 - Con.

|                                       |                          |           | Farms, 1974           |          | Percent change,          |
|---------------------------------------|--------------------------|-----------|-----------------------|----------|--------------------------|
|                                       | Farms, 1978 <sup>1</sup> | Published | Net percent<br>missed | Adjusted | adjusted 1974<br>to 1978 |
| East South CentralCon.                |                          |           |                       |          |                          |
| Alabama                               | 57,540                   | 56,678    | 13.3                  | 64,821   | -11.2                    |
| Farms with sales of \$2,500 or more   | 34,665                   | 29,303    | 7.5                   | 31,679   | +9.4                     |
| Farms with sales of less than \$2,500 | 22,875                   | 27, 375   | 17.4                  | 33,142   | -31.0                    |
| Mississippi                           | 54,306                   | 53,620    | 17.2                  | 65,763   | -17.4                    |
| Farms with sales of \$2,500 or more   | 30,410                   | 26,087    | 5.4                   | 27,576   | +10.3                    |
| Farms with sales of less than \$2,500 | 23,896                   | 27,533    | 27.9                  | 38, 187  | -37.4                    |
| West South Central                    | 371,752                  | 327,986   | 14.5                  | 384,585  | -3.3                     |
| Farms with sales of \$2,500 or more   | 256,589                  | 203,804   | 7.3                   | 219,738  | +16.8                    |
| Farms with sales of less than \$2,500 | 115,163                  | 124,182   | 25.0                  | 164,847  | -30.1                    |
| Arkansas                              | 58,788                   | 50,959    | 16.7                  | 61,489   | -4.4                     |
| Farms with sales of \$2,500 or more   | 40,669                   | 31,299    | 10.0                  | 34,777   | +17.0                    |
| Farms with sales of less than \$2,500 | 18,119                   | 19,660    | 26.4                  | 26,712   | -32.2                    |
| Louisiana                             | 38,973                   | 33,240    | 23.7                  | 43,264   | -9.9                     |
| Farms with sales of \$2,500 or more   | 22,683                   | 18,580    | 12.3                  | 21,186   | +7.1                     |
| Farms with sales of less than \$2,500 | 16,290                   | 14,660    | 33.6                  | 22,078   | -26.2                    |
| Oklahoma                              | 79,530                   | 69,719    | 11.7                  | 79,243   | +.4                      |
| Farms with sales of \$2,500 or more   | 58,781                   | 47,833    | 5.6                   | 50,671   | +16.0                    |
| Farms with sales of less than \$2,500 | 20,749                   | 21,886    | 23.4                  | 28,572   | : -27.4                  |
| Texas                                 | 194,461                  | 174,068   | 12.6                  | 200,589  | -3.1                     |
| Farms with sales of \$2,500 or more   | 134,456                  | 106,092   | 6.2                   | 113, 104 | ' +18.9                  |
| Farms with sales of less than \$2,500 | 60,005                   | 67,976    | 22.3                  | 87,485   | -31.4                    |
| Mountain <sup>3</sup>                 | 127,881                  | 111,868   | 6.7                   | 122,588  | +4.3                     |
| Farms with sales of \$2,500 or more   | 97,876                   | 90,449    | 2.4                   | 92,673   | +5.6                     |
| Farms with sales of less than \$2,500 | 30,005                   | 21,419    | 28.4                  | 29,915   | +.3                      |
| Pacific <sup>2</sup>                  | 154,516                  | 123,837   | 11.6                  | 143,545  | +7.6                     |
| Farms with sales of \$2,500 or more   | 103,152                  | 88,996    | 5.6                   | 94, 204  | +9.5                     |
| Farms with sales of less than \$2,500 | 51,364                   | 34,841    | 27.5                  | 49,341   | +4.1                     |
| Washington                            | 37,778                   | 29,410    | 10.8                  | 32,999   | +14.5                    |
| Farms with sales of \$2,500 or more   | 24,737                   | 21,079    | 6.4                   | 22,520   | . +9.8                   |
| Farms with sales of less than \$2,500 | 13,041                   | 8,331     | 20.5                  | 10,479   | +24.5                    |
| Oregon                                | 34,875                   | 26,753    | 15.5                  | 31,788   | +9.7                     |
| Farms with sales of \$2,500 or more   | 21,071                   | 17,043    | 6.3                   | 18,189   | +15.8                    |
| Farms with sales of less than \$2,500 | 13,804                   | 9,710     | 28.6                  | 13,599   | +1.5                     |
| California                            | 81,863                   | 67,674    | 10.5                  | 78,758   | +3.9                     |
| Farms with sales of \$2,500 or more   | 57,344                   | 50,874    | 4.9                   | 53,495   | +7.2                     |
| Farms with sales of less than \$2,500 | 24,519                   | 16,800    | 33.5                  | 25, 263  | -2.9                     |

 $<sup>^1\</sup>mathrm{Data}$  are from preliminary reports and may differ slightly from final counts.  $^2\mathrm{Alaska}$  and Hawaii not included.  $^3\mathrm{Data}$  not compiled for individual States.

Table B. Farms by Size of Farm and Tenure of Operator: 1978 and 1974

|                                |                          |                      | Farms, 1974           |                        | Percent change,          |
|--------------------------------|--------------------------|----------------------|-----------------------|------------------------|--------------------------|
|                                | Farms, 1978 <sup>1</sup> | Published            | Net percent<br>missed | Adjusted               | adjusted 1974<br>to 1978 |
| UNITED STATES <sup>2</sup>     |                          |                      |                       |                        |                          |
| Farms                          | 2,475,171                | 2,310,702            | 10.7                  | 2,622,416              | -5.6                     |
|                                | ,,                       | _,_,,                | - *.                  | ,, -, -                |                          |
| Farms by size: 1 to 9 acres    | 213,110                  | 126,604              | 26.1                  | 174,773                | +21.9                    |
| 10 to 49 acres                 | 474,535<br>813,944       | 378,631<br>827,506   | 22.9<br>11.0          | 494,024<br>936,797     | -3.9<br>-13.1            |
| 180 to 499 acres               | 596, 268                 | 615,913              | 3.9                   | 646,957                | -7.8                     |
| 500 acres or more              | 377,314                  | 362,048              | 1.5                   | 369,865                | +2.0                     |
| Tenure of operator:            | 3 (50 (1)                | 1 /00 2/7            | 12.0                  | 1 (50 0/2              | 12.1                     |
| Full owner                     | 1,450,414  <br>712,844   | 1,422,367<br>627,648 | 13.0<br>5.2           | 1,650,942              | -12.1<br>+6.8            |
| Tenant                         | 311,913                  | 260,687              | 12.6                  | 304,072                | +2.6                     |
| NORTHEAST                      |                          |                      |                       |                        |                          |
| Farms                          | 149,385                  | 127,531              | 16.5                  | 152,730                | -2.2                     |
| Farms by size:                 |                          |                      |                       |                        |                          |
| 1 to 9 acres                   | 13,534                   | 7,689                | 16.8                  | 9,301                  | +45.5                    |
| 10 to 49 acres                 | 28,098<br>61,017         | 19,416<br>54,901     | 31.2<br>17.1          | 28,403<br>66,655       | -1.1<br>-8.5             |
| 180 to 499 acres               | 38,288                   | 37,864               | 6.0                   | 40,542                 | -5.6                     |
| 500 acres or more              | 8,448                    | 7,661                | 1.5                   | 7,829                  | +7.9                     |
| Tenure of operator:            | 22.000                   | 02.000               | 10.5                  |                        |                          |
| Full owner                     | 93,880<br>43,680         | 83,389<br>36,112     | 19.5<br>4.9           | 103,110<br>37,797      | -9.0<br>+15.6            |
| Tenant                         | 11,825                   | 8,030                | 32.4                  | 11,823                 | .0                       |
| NORTH CENTRAL                  |                          |                      |                       |                        |                          |
| Farms                          | 1,027,319                | 1,017,367            | 6.3                   | 1,096,353              | -6.3                     |
| Farms by size:                 |                          |                      |                       |                        |                          |
| 1 to 9 acres                   | 58,168                   | 36,065               | 30.8                  | 52,227                 | +11.4                    |
| 50 to 179 acres                | 138,016<br>324,583       | 108,756<br>350,343   | 18.5<br>6.8           | 133,716<br>376,663     | +3.2<br>-13.8            |
| 180 to 499 acres               | 321,482                  | 345,610              | 2.5                   | 355, 187               | -9.5                     |
| }                              | 185,070                  | 176,593              | .9                    | 178,560                | +3.6                     |
| Tenure of operator: Full owner | 542,504                  | 568,866              | 7.5                   | 620,166                | -12.5                    |
| Part owner                     | 334,287                  | 313,364              | 4.0                   | 329, 173               | +1.6                     |
| Tenant                         | 150,528                  | 135,137              | 7.3                   | 147,014                | +2.4                     |
| SOUTH                          |                          |                      |                       |                        |                          |
| Farms                          | 1,016,070                | 930,099              | 15.2                  | 1,107,200              | -8.2                     |
| Farms by size:                 | j                        |                      |                       |                        |                          |
| 1 to 9 acres                   | 95,711                   | 55,659               | 31.1                  | 81,428                 | +17.5                    |
| 50 to 179 acres                | 232,908<br>370,928       | 194,050<br>369,648   | 24.2<br>4.0           | 258,033<br>433,227     | -9.7                     |
| 180 to 499 acres               | 197,023                  | 196,395              | 7.8                   | 214,701                | -14.4<br>-8.2            |
| 500 acres or more              | 119,500                  | 114,347              | 3.8                   | 119,811                | 3                        |
| Tenure of operator: Full owner | 622 /55                  | (00.010              |                       |                        |                          |
| Part owner                     | 633,455<br>264,029       | 623,219<br>214,061   | 17.4<br>7.5           | 757, 206  <br>232, 239 | -16.3                    |
| Tenant                         | 118,586                  | 92,819               | 20.9                  | 117,755                | +13.7<br>+.7             |
| WEST <sup>2</sup>              |                          |                      |                       |                        |                          |
| Farms                          | 282,397                  | 235,705              | 9.5                   | 266,133                | +6.1                     |
| Farms by size:                 |                          |                      |                       |                        |                          |
| 1 to 9 acres                   | 45,697                   | 27,191<br>56,400     | 12.7                  | 31,817                 | +43.6                    |
| 50 to 179 acres                | 75,513<br>57,416         | 56,409<br>52,614     | 22.0<br>10.8          | 73,872                 | +2.2                     |
| 180 to 499 acres               | 39,475                   | 36,044               | 8                     | 60,252<br>36,527       | -4.7<br>+8.1             |
| 500 acres or more              | 64,296                   | 63,447               | -1.8                  | 63,665                 | +1.0                     |
| Tenure of operator: Full owner | 180 575                  | 144 000              | *6 -                  |                        |                          |
| Part owner                     | 180,575<br>70,848        | 146,893<br>64,111    | 12.1<br>4.1           | 170,460<br>68,193      | +5.9                     |
| Tenant                         | 30,974                   | 24,701               | 8.3                   | 27,480                 | +3.9<br>+12.7            |

 $<sup>^1\</sup>mathrm{Data}$  are from the preliminary reports and may differ slightly from final counts.  $^2\mathrm{Alaska}$  and Hawaii not included.

# **APPENDIX D.** Report Forms

| DUE BY FEBRUARY 15, 1979  | ,  |   |  |                        |                       |                              | F                         | orm Approve               | ed: O.M.B                                | . No.             | 41 - \$7802        |
|---|--|---|--|------------------------|-----------------------|------------------------------|---------------------------|---------------------------|--|-------------------|--------------------|
|   |  | tie 13, U.S. Code). By the same law<br>seen only by sworn Census employ   | YOUR REPORT TO   | FORM 7                 |                       |                              |                           | J.S. DEPA                 | RTMENT OF                                | FTHE              | MMERCE             |
| only for statistical purposes   | CONFIDENTIAL. It may be : . Your report CANNOT be us opies retained in your files are  | sed for purposes of taxation, investi                                     | gation, or regulation.                                   | امر                    | ¢ Nc                  |                              | 1/                        | 978 C                     | ENCI                                     | 10                |                    |
| In correspondence pertaining  | to this report, please refer to  | the 11-digit Consus File Number (C  | PW)  | <b>\$</b>              |                       | 6                            | 1,                        |                           |  | 72                |                    |
|   |  |   |  | 1 3                    | 78                    |                              |                           | 0                         | -  |                   |                    |
|   |  |   |  | 2                      |                       | S                            | AC                        | BRICL                     | JLTU                                     | RE                |                    |
|   |  |   |  | COMBI                  | TE ANS                | RETURN                       |                           | Bureau of t<br>1201 East  |  |                   |                    |
|   |  |   |  | COSTE                  | EIE AM                | , uri dun                    | <u>''/</u>                | Jeffersonvi               | tie, Indian                              | a 47              | 132                |
|   |  |   |  | Note                   | <b>▶</b> Ple          | ase read the                 | e Informatio              | on Sheet be               | fore compl                               | eting             | the form.          |
|   |  |   |  | If book f              | igures a              | re not avail                 | lable, reas               | onable esti               | mates may                                | y be              | used. If           |
|   |  |   |  | sent to                | the abor              | causes an ve address.        | include                   | your 11-dig               | it Census                                | File              | Number             |
|   |  |   |  | If you re              | ceived m              | in your addr                 | e re-                     | T T T                     | THIRDING                                 | 1                 |                    |
|   |  |   |  | port form<br>Numbert   | enter ex              | etra Cansus<br>Indireturni e | File<br>xtra              | -+++                      | +  | +                 | ++                 |
|   |  |   |  | copies W               |                       | ompleted re                  |                           | 037                       |  | 338               |                    |
|   |  |   |  | USE                    | 039                   | 040                          |                           | 041                       | 1  | 542               |                    |
|   | (Please correct errors in name,  | , address, and ZIP code.)   | *  | ONLY                   |                       |                              |                           |                           |  |                   |                    |
| SECTION 1 ACREAGE II  | l 1978<br>In 1978 changed during the yea   | ii. refer to the  | INSTRUCTIO   | A.                     | ctions 2<br>ring 1971 | through 8<br>3. Please       | provide sp<br>report your | ace for rep<br>crops in t | porting cro<br>the appropr               | ops ha<br>riate s | rvested<br>ection. |
| INFORMATION SHEET, S  | ection 1.  |   | INSTRUCTIO   | UA                     | not inc               | lude crops g<br>NLY those    | rown on lai               | nd rented to              | others, (                                | Use s             | ection 8<br>h 7    |
| corporation, or organization  | , or used by you, your spouse,<br>on for which you are reporting.  | Include ALL LAND,   | SECTION 2  |                        |                       | LOWING CR                    | <del></del>               |                           |  |                   |                    |
| REGARDLESS OF LOCAT<br>rangeland, woodland, idle                            | FION OR USE — cropland, pasi<br>Jand, house lots, etc.   | lureland, None Number of acres  | SECTION 2 W  | ne any or              | ine rou               | LORING CR                    | CTO HATE                  | 2160 HAM T                | as hiere i                               | # 131             | P:                 |
| 1. All land owned   | 회문화 왕이 살아 있다고 있다.  | 043   | 1  |                        | None                  | Acres<br>harveste            |                           | antity harv               | rested                                   |                   | cres<br>igated     |
|   | FROM OTHERS, including land  | d marked by   | 1. Field com for   | rain or                |                       | 067                          | 068                       |                           | Ви.                                      | 069               |                    |
| you on shares, used rent f  | ree, in exchange for services,   | payment   | Seed (Report quality a shelled-weigh                     |                        |                       |                              | <b>1</b>                  | OR                        | Cwt.                                     | }                 |                    |
| (DO NOT include land use  | sed Federal, State, and railroa<br>d on a per-head basis under a   | grazing   | 2. Field com for s                                       |                        | دب ب                  | 070                          | 071                       |                           |  | 072               |                    |
|   | m 5 below  | 040   | or green chop.   |                        | □                     |                              |                           |                           | green                                    |                   |                    |
| 3. All land rented or leased 1 shares by others and land                    | TO OTHERS, including land wi<br>subleased. Also complete iter  | orked on 1  | 3. Wheat for grain                                       |                        | $\Box$                | 073                          | 074                       |                           | Bu.                                      | 075               |                    |
| TO CARDON STANDARDS AND A STANDARDS AND A                                   | - ADD acres owned (item 1) an  | 046   | 4. Oats for grain  |                        |                       | 076                          | 077                       |                           | Bu.                                      | 078               |                    |
| acres rented (item 2), then   | SUBTRACT acres rented TO   |   | 5. Barley for grain                                      |                        |                       | 079                          | 080                       |                           | Bu.                                      | 081               |                    |
| OTHERS (stem 3), and ente   | er the result in this space.   |   |  |                        |                       | 082                          | 083                       |                           | Bu.                                      | 084               |                    |
|   | se are the "AGRES IN THIS P<br>refer to the INFORMATION SI   |   | 6. Sorghums for gr<br>seed (include m                    |                        |                       |                              | <b>J</b>                  | OR                        | Lbs.                                     |                   |                    |
| E If you souted toud COOK O   |  | alka kalinga a langung a  | 7. Sorghums for si                                       |                        |                       | 085                          | 086                       |                           |  | 087               |                    |
| Name of landlord  | The state of the s | owing information for each landlerd.  notucle ZIP code)   Number of acres | or green chop (e<br>sorghum-sudan                        |                        |                       |                              |                           |                           | Tons,<br>green                           |                   |                    |
|   | •  | 047   | 8. Soybeans for be                                       | ans                    |                       | 088                          | 089                       |                           | Bu.                                      | 090               |                    |
|   |  | 048   | 9. Cotton  |                        | □                     | 091                          | 092                       |                           | Bales                                    | 093               |                    |
| **************************************                                      |  | 049   | 10. Tobacco – all i                                      | ypes                   | 🗆                     | 094                          | /10 095                   |                           | Lbs.                                     | 096               | /10                |
| List additional landlords o   | n a separate sheet of paper.   |   | 11. Irish potatoes.                                      |                        | 🗀                     | 097                          | /10 098                   |                           | Cwt.                                     | 099               | 1 /10              |
| 6. If you rented land TO OTH  | ERS (Item 3), enter the follow   | ring information for each renter.   | 12. Sweetpotatoes  | ind yams .             | • • □                 | 100                          | /10 101                   |                           |  | 102               | /10                |
| Name of renter  | Mailing address (In  |   | SECTION 3  | s any DR'              | HAY, C                | RASS SILA                    | GE, HAYL                  | AGE, or GI                | REEN CHO                                 | OP cu             |                    |
|   |  | 050   |  | harvested<br>d hey cut | from this             | s place in 1<br>tures.)      | 978? (Incl                | ude sorghus               | acides cr                                | *****             |                    |
|   |  | 051   |  | = .                    |                       | e this secti                 | Orb .                     |                           |  |                   |                    |
|   |  | 052   | 2  | □ NO                   | Go to se              | ction 4                      |                           |                           |  |                   |                    |
| List additional renters on i  |  |   | If cuttings were<br>same fields, re                      | port the ac            | reage in              | the appropri                 | iste items i              | haylage, or<br>under DRV  | green cho                                | p fron            | the                |
| <ul> <li>a. Of the land you rented of<br/>how many acres did you</li> </ul> | num?   | None oss  | GRASS SILAGE  • DRY HAY                                  | , HAYLA                | 3E, and (             | BREEN CH                     | OP.                       |                           |  |                   |                    |
| 7. During 1978, did you have  |  | Acres   | (If two or more<br>made from the s                       | cuttings o             | dry hay               | were                         | Acres                     |                           | ity harves                               |                   | •                  |
| State grazing permits on a  | per-head basis:  |   | once, but report   | total tons             | from all              | cuttings.)                   | harvest                   | ed or q                   | ort either d<br>reen weigl<br>Indicated) | hr I              | Acres<br>irrigated |
| such as Forest Service, Ta<br>Indian Reservations, etc.?                    | ikin diatiils.   |   | <ol> <li>Alfalfa and alfa<br/>hay or dehydrat</li> </ol> | lla mixture            | es for                |                              | 103                       | 104                       | Tor                                      | ns, 10            | 05                 |
| 8. How many set aside acres   | did you have   | None osa  | 2. Small grain hay                                       |                        |                       |                              | 106                       | 107                       | dry<br>Tor                               | 15, 10            | 08                 |
| in the Federal Farm Progra  | m in 10702   | Acres   | 3. Other tame dry  |                        | 3.5                   |                              | 109                       | 110                       | dry                                      | 1                 | 1 1                |
| 9. LOCATION OF AGRICULT   | FURAL ACTIVITY FOR THIS  | PLACE .   | timothy, Bermu   | la grass, S            | judan gra             | ss, etc                      | L                         |                           | Tor<br>dry                               |                   |                    |
| s. In what county was the   | County nan   | me State Number of acres  | 4. Wild hay  |                        |                       | ,,,,,,,,                     | 112                       | 113                       | Tor                                      |                   | 14                 |
| largest value of your<br>agricultural products                              | Principal  | 056   | <ul> <li>GRASS SILAGE<br/>GREEN CHOP</li> </ul>          | , HAYLA                | SE, AND               |                              |                           |                           | <u></u>                                  | $\top$            |                    |
| raised or produced?   | county   |   | (If two or more  | cuttings o             | f gress s             | il <b>ago</b> ,              |                           |                           |  |                   |                    |
| b. If you also have agricul-  |  | 057   | heylage, or gree<br>same ecres, rep                      | en chop we             | are made<br>only once | from the                     |                           |                           |  | - 1               |                    |
| tural operations in any<br>other county(ies), enter                         | Other  | 058   | 5. Grass silage an                                       |                        |                       |                              | 115                       | 116                       | Tor                                      |                   | 17                 |
| the county name(s), etc.  | .i U   | 059   | 6. Hay crops cut a                                       |                        |                       |                              | 118                       | 119                       | Tor                                      | ns, 1:            | 20                 |

| SECTION 4 Was then  | e a combi   | ned total of 20 o  | or more FRUI                                     | T TREES, i  | ncluding GR  | APEVINE                  | S, CITRUS and  | NUT   | TREES ON  | THIS PLACE   | in 1978?  | (Do not  | include abi  | andoned trees)             |   |  |       |
|---|---|--|--|---|--|--------------------------|--|---|---|--|---|--|--|----------------------------|---|--|-------|
| _   |   | iete this sectio   | n  |   | Total  | al acres                 | Acres  | miosta  | <del></del> .                                       |  |   |  |  |                            |   |  |       |
| <del>-</del>  |   | section 5  | avahonda aidi                                    |   | Whole ac   | cres Tent                | hs Whole acre  |   | <del></del>   |  |   |  |  |                            |   |  |       |
| <ol> <li>TOTAL ACRES in bea<br/>or other graves, vineya</li> </ol>              | rds, and i  | nut trees on this  | orcharos, cru<br>i place                         |   | 121  | 1                        | 122  | 1   | /10   | HONCITRU   | s crops   | Code   | CITRUS C   | ROPS                       | Code                                    |  |       |
| 2. From the list at the rig<br>requested information<br>trees, estimate the are | or each c   | rop even if not t  | iarvested bec                                    | ause of low   | prices, dam  | age from h               | ail, frost, etc.   | For i   | rterplanted   | Apples Apricots Avocados   | See<br>on Sheet   | . 129<br>. 135   | from bloor<br>Grapefruit   | in 1977–78<br>n of 1977)   | 267                                     |  |       |
|   | T   | NUMBE<br>TREES OR  |  |   | in trees   | Quan                     | N N  | of mea<br>ark one                             |   | Grapes — d<br>Grapes — f<br>Olives — s                           | Cherries<br>Grapes – dry weight<br>Grapes – fresh weigh |  | Grapes - fresh weig  |                            | Oranges<br>Tangetos                     |  | . 297 |
| Crop name   | Code  | Nonbearing<br>age  | Bearing<br>age                                   | ali   | ages   | harve                    | sted 3   | Tons  | S Lbs.<br>per<br>box                                | Informati<br>Peaches<br>Pears                                    | on Sheet  | . 225  | Tangerine<br>mandari<br>Other citr                                     | . 309<br>. 315             |   |  |       |
|   | 1   |  | t  | 2   | /10  | 3                        | 17   |   | 3   1 <sup>5</sup>                                  | fresh wei  | eht   | . 243  | NUT CRO  | P<br>vantity in            | Code                                    |  |       |
|   | <u> </u>  |  | 1  | 2   | /10  | 3                        | 1:77   | 2 🗀   | 3 🗍 5   | Prunes — o<br>Other none<br>Specify.                             | trus -  | Act Almonds  |  |                            | . 321                                   |  |       |
|   |   |  | 1  | 2   | /10  | 3                        | 1  |   | 3 🗍   |  |   |  | Pecans,  | and hazelnuts.<br>Improved | . 327<br>. 339                          |  |       |
| - <del></del>   |   |  | 1  | 2   | /10  | 3                        | 4  | 2 🗀   | 5   |  |   |  | and see<br>Wainuts (   | dling<br>English           | . 345                                   |  |       |
|   | +   |  | 1  | 2   | /10  | 3                        |  | <u>,                                    </u>  | 3 - 5   |  |   |  | Or Persi<br>Other nut  | an)                        | . 357                                   |  |       |
| It more spece is needed,  | use sepa  | rate sheet of pa   | 097.   |   |  |                          | 1,5  | اللاغا  | <u>*Ul</u>  | l)   |   |  | Specify  |                            | . 363                                   |  |       |
| FOR SA  1  YE  2  NO  For Florida, report to August 31, 1978 herve              | LE from I<br>ES - Com<br>O - Go t<br>r Septemb<br>et season | ; for all  | 18?<br>on<br>gh                                  |   |  |                          |  | or F(<br>1  <br>2<br>I belov                  | OR SALE by<br>□ YES - C<br>□ NO - C<br>w. enter cro | om this place<br>complete this<br>to to section<br>p name and co | in 1978?<br>section                                     |  |  | BERRIES harve              | is ted                                  |  |       |
| other States report for   |   | *  | }  | cres<br>res Tenths  | Acres in<br>Whole acre   |                          | Crop na  | me  | Code  | Acres harve  |   | Quantity   | harvested  | Acres irrig                | *************************************** |  |       |
| 1. Land from which vege<br>harvested in 1978                                    |   |  | 375  | /10   | 376  | /10                      |  |   | +-+   | Whole acres  |   | 1  |  | Whole acres                | 1                                       |  |       |
| 2. From the list below, a tri more than one vege                                | enter the   | crop name and c  | ode for each                                     | crop harves   | ed in 1978.  |                          |  |   | +-+   |  | /10   | 1  |  | 2                          | /10                                     |  |       |
| each crop. Report cr  | ops grown   | under protectio  | n in section (                                   | 5.  |  |                          | <b>}</b> -   |   | +   |  | /10   | 1  |  | 2                          | /10                                     |  |       |
| Crop na   | me  | Cod  | e Acres  | harvested   | Acres in   | 1                        | If more spa  | e is n  | anded, use  | Separate shae  | of paper.   | 801.5677.30  |  |                            | ; /10                                   |  |       |
|   |   |  | <del> </del>                                     | /10   | 1  | /10                      | Crop name  |   |   | Cod  | 10.00   | Cro  | p name   | SECTION OF THE PROPERTY.   | Code                                    |  |       |
|   |   |  |  | /10   | i  | /10                      | Blumberries  | , tame  | (pounds)  | pounds) 509  |   | Stra   | whereles In  | ounds)                     | 533<br>536                              |  |       |
| -   |   |  |  | /10   | 1  | /10                      | Cranberries  | (100-   | (pounds) .<br>b. barreis) .                         | 515  |   | Sp   | ecity  | ss (pounds) —              | 539                                     |  |       |
|   |   |  |  | /10   | 1  | /10                      | SECTION 8  |   |   | ER CROPS h   |   |  |  | 78 — rice, pear<br>ported? | nuts, .                                 |  |       |
| If more space is needed,  | ven terre   | urate sheet of or  |  | /10   | <u>.</u>   | i /10                    |  | 7   | - C - C - C - C - C - C - C - C - C - C             | Complete this  |   |  |  |                            |   |  |       |
| Crap name Asparagus Beans, snap (bush and pole) Beets Broccoli                  | Code<br>. 379<br>. 381<br>. 383                             | Crop name Cucumbers and Eggplant Garlic Honeydew meto Lettuce and ror        | pickles.   | 15 Peppa<br>21 Pumpk<br>23 Radist                           | emm rs. sweet . rs. hot ins ies it   | 445<br>449<br>451        | unit specifi   | t belo  | w, enter cro<br>r crop name                         |  | de. Aepo  |  |  |                            |   |  |       |
| Cabbage   | . 391<br>. 395<br>. 397                                     | Lima beans, grid Mustard greens Onions, dry Onions, green Okra Peas green in | een  | 29 Squast<br>31 Sweet<br>33 Tomat<br>35 Turnip<br>37 Turnip | corn<br>oes<br>s<br>greens<br>elons  | 459<br>461<br>463<br>465 | Crop   | name  | 6   | ode Acres  | harvested   | 1<br>1   | tity harvest   | ed Acres in                | igateo                                  |  |       |
| Celery Collards Cowpeas (blackeyed and other green cowpeas)                     | . 407   | English (exclinate compea  | ude  | Other   | vegetables -   | <b>.</b>                 |  |   |   |  |   | 1  |  | 2                          |   |  |       |
| flower s<br>protecti  | iceds, ver<br>on, or MU                                     | RY and GREEN<br>petable seeds at<br>ISHROOMS grow                            | nd plants, ver<br>n FOR SALE                     | etables und   | er glass or  |                          |  |   |   |  |   | 1  |  | 2                          |   |  |       |
| 1 [ ] Y   |   | plete this section 7   | <b>~</b> [                                       | Ar  | ea irrigated   |                          |  |   |   |  |   | 1  |  | 2                          |   |  |       |
| _   |   |  | None   | Square fe   | et Acre  | s Tenths                 |  |   |   |  |   | 1  |  | 2                          |   |  |       |
| 1. Nursery and greenhou   |   |  | 9/8 🗆 [  |   |  | ¦ /10                    |  | a is n  | eaded, use  | saperate shee  |   |  |  | -                          | - فيساق                                 |  |       |
| 2. From the list below,   | enter me  | Square feet ur   |  | in the oper<br>n 1978                                       | A Committee of the Comm | in 1978                  | Grep mame<br>Attaifa see   | d (pou  | rkds) . ,   |  | ele Crop<br>62 Prosc                                    | millet (   | bushels)   |                            | Code<br>. 665                           |  |       |
| Product name  | Code  | glass or othe<br>protection in 1   | 000  | n 1978<br>Icres I Tenti                                     |  |                          | Beans, dry<br>(100-pour<br>Beans, dry                                | d bags  | )   | 6  | •   | r = 0.00 - c   | wund hage  | or                         | 677                                     |  |       |
|   |   |  | 1  | /1  | 2  | 1                        | (100-pour<br>Buckwheat   | d begs<br>(bushe                              | )<br>(ls)   | ::::::: }  | 57<br>75 Rye f  | (barre<br>or grain   | is)<br>(bushels)   |                            | . 683<br>. 684                          |  |       |
|   | 1   |  | 1  | /1  |  | 1                        | or grazed  | r ary n                                       | pager, nugge<br>Lacres only                         | ;a<br>} <b>5</b>   | Ryege<br>11 Saffic                                      | ASS SOCO   | (pounds) .   |                            | . 667                                   |  |       |
|   |   |  | 1  | /1  | 0 3  | i                        | Emmer and  | spell !                                       | eas (bushe)<br>bushels)<br>nds)                     |  | 95 or h<br>12 Soreh                                     | ay (tons,<br>ums hogs                                      | dry weight<br>sed or graze   | )                          | . 698<br>. 701                          |  |       |
| If more space is neaded, Product name Bedding plants (include v Bulbs           | egetable (  | Code F<br>plants) 473 F<br>482 R   | Product name<br>Foliage and fi<br>Austrooms .    |   |  | 494                      | Flaxseed (<br>Grains, mix<br>Kentucky E<br>Lespedeze<br>Mint for oil | oushel<br>ed (bu<br>luegra<br>seed (<br>pound | s)  | unda)  | PS Sugar<br>L4 Sugar<br>29 See<br>L8 Sugar<br>L4 Sunfi  | beets for<br>came for<br>informati<br>came for<br>ower see | r sugar (tons<br>sugar (tons<br>fon Sheet<br>seed (tons)<br>d (pounds) | (a)                        | . 719<br>. 722<br>. 725<br>. 734        |  |       |
| Nursery products — envi<br>lining-out stock, fruit a                            | ronmental<br>and nut be                                     | s, \<br>eas, {   | /egetable and<br>Freenhouse vi<br>Other — Speci- | flower see<br>getables .                                    | ds   | 500                      | Peas, dry f  | ield an                                       | pounds).<br>d seed (pou<br>shelled) .               | nds) 🍯   | S Other   | crops (p   | (pounds)   |                            | . /10                                   |  |       |

| SECTION 9 GROSS VALUE of CROPS SOLD from this place in 1978, BEFORE laxes and expenses (Nation to the IMPORMATION SHEET, Section 9.)   | SECTION 12 Did you or anyone else have any CATTLE or CALVES on this place in 1978?  |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Report your best estimate of the value for each of the following groups of crops   | 912 1 YES - Complete this section   |  |  |  |  |  |
| sold from this place in 1978. Include the value of the landlord's and/or contractor's  | Number on this  |  |  |  |  |  |
| share, estimating if necessary. Include value of Government CCC loans.   | BO3 Total   |  |  |  |  |  |
| 1. Grains sold in 1978, including Government CCC loans - None Control for grain, grain soighums, rice, wheat and other   | 1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)  |  |  |  |  |  |
| small grains, soybeans, dry beans, dry peas and cowpeas, flaxseed, sunflower seed, popcorn, and safflower  | a. BEEF COWS - Include beet helters that Beet cows  |  |  |  |  |  |
| a. Of the total, how much was None Dollars Cents   | b. MILK COWS kept for production of milk or cream   |  |  |  |  |  |
| received in 1976 from Government CCC loans?  | for sale or home use — include dry milk cows and milk helfers that had calved   |  |  |  |  |  |
| 2. Cotton and cottonseed, including Government CCC loans   | c, HEIFERS AND HEIFER CALVES - Exclude heifer calves calves   |  |  |  |  |  |
| a. Of the total, how much was None Pollars Cents received in 1976 from   | d. STEERS, STEER CALVES, BULLS AND BULL CALVES  |  |  |  |  |  |
| Government CCC loans? s  | CATTLE AND CALVES SDLD     FROM THIS PLACE IN 1978     Number sold    Gross value of sales  |  |  |  |  |  |
| 3. Tobacco   | Include those fed on this place on a None in 1978 Dollars Cents contract or custom basis. Also report   |  |  |  |  |  |
| 4. Field seeds, grass seeds, hay, forage, and silage \$  | es sold, cattle moved from this place to a feediot for further feeding.   |  |  |  |  |  |
| 3, Yegetables, sweet corn, and melans—DO NOT include frien polatioes or sweetpotatoes, report them in item 8 below   |   |  |  |  |  |  |
| 6. Fruits, nuts, berries – apples, peaches, grapes, citrus, pecans, strawberries, etc  | 2. Calves weighing less than 500 pounds   |  |  |  |  |  |
| 7. Nursery and greenhouse products   | 500 pounds or more  |  |  |  |  |  |
| 8. Other crops - peanuts, frish potatoes, sweetpotatoes, 785   | a. Of the total cattle sold, how many   |  |  |  |  |  |
| sugar beets, sugarcane, mint for oil, hops, etc specify  | were FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more and SOL D for SI AllGMTFR?   |  |  |  |  |  |
| SECTION 10 LAND USE IN 1978  |   |  |  |  |  |  |
| 1. Copy ACRES IN THIS PLACE from section 1, item 4, page 1   | DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1978  Gross value of sales  Gross value of sales   |  |  |  |  |  |
| NOTE: If the same land had more than one use in 1978, REPORT THAT LAND ONLY ONCE — in the use first listed below that applies. For example, cropland harvested and also pastured is to be reported only as "Cropland harvested." | 4. Gross value of sales of DAIRY PRODUCTS from this place in 1978. Report goet dairy  |  |  |  |  |  |
| 2. CROPLAND None Number of acres   | products in section 15  |  |  |  |  |  |
| a. Cropland harvested — include all land from which crops were harvested or hay was out, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse products.  | SECTION 13 Did you or anyone else have any HOGS or PIGS on this place in 1978?  |  |  |  |  |  |
| b. Cropland used only for pasture or grazing — include rotation pasture and grazing land that could have been used for crops without additional improvements.  | 2 NO - Go to section 14 INVENTORY Number on this place Dec. 31, 1978 INVENTORY  • DECEMBER 31, 1978 INVENTORY    None   Discrete Dec. 31, 1978   15 |  |  |  |  |  |
| c. Cropland used for cover crops, legumes, and soil-improvement grasses, but NOT harvested and NOT pastured  | I. HOGS and PIGS of all ages (Total of a and b below)   |  |  |  |  |  |
| d, Cropland on which all crops failed (Exception: Do not report  | a. HOGS and PIGS used or to be used for BREEDING  |  |  |  |  |  |
| here land in orchards and vineyards on which the crop failed.  Such acreage is to be reported in item 2s.)   | b. OTHER HOGS and PIGS Other  |  |  |  |  |  |
| e. Cropland in cultivated summer fallow  | • UTTERS FARROWED   |  |  |  |  |  |
| 1. Cropf and idle  | 2. LITTERS FARROWED on this place between - Name Number of litters  |  |  |  |  |  |
| 3. Woodland - Include all woodlots /   | a. December 1, 1977 and May 31, 1978  |  |  |  |  |  |
| end timber tracts and cutover and deforead land with young timber growth.  8. Woodland pastured  | b. June 1, 1978 and November 30, 1978   |  |  |  |  |  |
| 4. Other pastureland and rangeland - include any pastureland other   | Number sold Gross value of sales  |  |  |  |  |  |
| their cruptand and woodland pesture  5. All other land - Land in house lots, ponds, roads, wasteland, etc. 797   | HOGS AND PIGS SOLD     None in 1978 Dollars Cents     820 821   |  |  |  |  |  |
| Include any lend not reported in items 2 through 4 above   | 3. HOGS and PIGS SOLD from this place in 1978 S   |  |  |  |  |  |
| 6. TOTAL ACRES — Add the acres reported in items 2 through 6 (Should be the same as item 7 above.)   | 4. Of the bogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?  |  |  |  |  |  |
| SECTION 11 Was any LAND in this place IRRIGATED at any time in 1978?   | SECTION 14 Did you or anyone else have any SHEEP or LAMBS on this place in 1978?  |  |  |  |  |  |
| Irrigated land is all land watered by any attificiel of controlled meens — sprinklars, turrows or ditches, spreader dikes, etc. include supplemental, partial, and preptiant irrigation.  9.11  YES — Complete this section.     | 1 YES - Complete this section 2 NO - Go to section 15   |  |  |  |  |  |
| 1   TES - Complete this section 2   NO - Go to section 12  | INVENTORY SALES Number on this Number sold  |  |  |  |  |  |
| How many acres of each of the following classifications     None Number of acres     of land were irrigated in 1978?   | None place Dec. 31, 1978 in 1978  |  |  |  |  |  |
| a. HARVESTED LAND reported in section 10. 799  | 1. STICLE and LAMBS to an ages  |  |  |  |  |  |
| Nem 2a - Include land from which hay was cut and land in bearing and nonbearing fruit and nut crops  | a. EWES I year old or older   |  |  |  |  |  |
| b. PASTURELAND or RANGELAND reported in  | None Number shorn Paunds of woot shorn  |  |  |  |  |  |
| section 10, items 2b and 4 — include spring flooding If water diverted or spread by dems, spreader dikes,  | 827 828   |  |  |  |  |  |
| c. ANY OTHER LANDS - Such as land not harvested due to   | 2. SHEEP and LAMBS SHORN  |  |  |  |  |  |
| complete failure, idle land, land in cultivated summer fallow, or land in cover crops and soil-improvement grasses   | Gross value of sales  |  |  |  |  |  |
| d. TOTAL LAND IRRIGATED (Total of a, b, and c above.)  | 3. What was the gross value of sales of sheep, lambs, and wool from this place in 1978?   |  |  |  |  |  |

| SECTION 15 Did you or anyone else have any HORSES, BEES, FISH, OTHER           |                                      |                               |  | SECTION 17 Income from MACHINE WORK, CUSTOMWORK, and OTHER ACRICULTURAL |  |  |  |  |  |
|--|--------------------------------------|-------------------------------|--|---|--|--|--|--|--|
| CIVESTOCK, OF ANIMAL SPECIALTIES in 1978?                                      |                                      |                               |  |   | SECTION 17 Income from MACHINE WORK, CUSTOMWORK, and OTHER AGRICULTURAL SERVICES PROVIDED for others in 1978                             |  |  |  |  |
| 1 YES - Complete 2 NO - Go to sec  |                                      |                               |  |   | Total amount received from machine work, customwork, None Dollars Cents and other agricultural services PROVIDED FOR OTHERS              |  |  |  |  |
|  | INVENTORY<br>Number on<br>this place | Total number sold in 1978     | Gross value o                          | of sales  | in 1978 – planting, plowing, spraying, harvesting, etc   |  |  |  |  |
| None  1. Horses and ponies of  | Dec. 31, 1978                        |                               | Dollars                                | Cents   | Specify kind of work done  |  |  |  |  |
| all ages   | 830                                  | 831                           | 832<br>\$                              | i   | SECTION 18 During 1978 did you SELL any crops, livestock, or livestock products DIRECTLY to individuals FOR HUMAN CONSUMPTION – roadside |  |  |  |  |
| 2. Mules, burros, and  | 833                                  | 834                           | 835                                    | 1   | stands, farmers markets, pick your own, etc.?  |  |  |  |  |
| donkeys  | 836                                  | 837                           | 838                                    | 1   | 1 YES - Complete this section Dollars Cents  |  |  |  |  |
| 3. Mink and their pelts  |                                      |                               | \$                                     | !   | 2 NU - Go to section 19  |  |  |  |  |
| a. Mink females used for breeding  | 863                                  |                               |  |   | 1. What was the gross value of these direct sales?s  |  |  |  |  |
| 4. Other livestock or animal   |                                      |                               |  |   | Specify products sold – vegetables, eggs, etc.   |  |  |  |  |
| specialties in captivity (Enter name and code from "List A" below.)            |                                      |                               |  | !   | SECTION 19 TYPE OF ORGANIZATION  |  |  |  |  |
|  |                                      | ,                             | 2                                      | 1   | Mark (X) the one item which best describes the type of organization for this place in 1978.  Refer to the INFORMATION SHEET, Section 19. |  |  |  |  |
| Name Code  |                                      |                               | <u> </u>                               | <u> </u>  | FAMILY or INDIVIDUAL operation (sole proprietorship), excluding partnership and corporation  |  |  |  |  |
|  | res under water T<br>or aquaculture  | otal quantity sold<br>in 1978 | Gross value o                          | Cents   | PARTNERSHIP operation. Include family partnerships 2 Total number  |  |  |  |  |
| code from "List B" below.)   |                                      | Pounds                        | ) .                                    | i   | INCORPORATED UNDER STATE LAW of partners   |  |  |  |  |
| Name Code  | $\bar{z}$                            | OR<br>Gallons                 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ]<br>]  | Answer BOTH <b>a</b> and <b>b a.</b> Is this a family held corporation?  |  |  |  |  |
| 6. Fish and other aquaculture products (Enter name and                         | 1                                    |                               | ١,                                     | !   | b. Are there more than 10 stockholders?∫s ☐ Yes  |  |  |  |  |
| code from "List C" below.)   |                                      | OR                            | <b>)</b> .                             | i   | •OTHER, such as cooperative, estate or trust, prison   |  |  |  |  |
| Name Code  | /10                                  |                               | 11,                                    | I<br>I  | farm, grazing association, Indian reservation, etc 7 Specity   |  |  |  |  |
|  | List A                               | Number                        | <u> </u>                               | <u> </u>  | SECTION 20 CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner  |  |  |  |  |
| Name Code Name   |                                      | Code Name                     |  | Code  | or person in charge) Refer to the INFORMATION SHEET, Section 20.  1. RESIDENCE – Does the operator (senior partner or 923                |  |  |  |  |
| Colonies of bees 839 Other Angora goats 842 Rabbi Milk goats 845 Chinc         | goats                                | 851 All ot                    | her livestock —                        |   | person in charge) live on this place?  |  |  |  |  |
| List B   | `                                    | List                          |  |   | 1 🗀 White  |  |  |  |  |
| Name Code Mohair sold  |                                      | Code                          | Name<br>Other fish —                   | Code  | 2 ☐ Negro or Black<br>3 ☐ American Indian  |  |  |  |  |
| Goats milk sold  | Trout,<br>Tropical a                 | <b>876</b><br>nd              | Specify Other aquacult                 | 884<br>ure  | 2. RACE of operator (senior partner or person in charge) 🗸 🚛 Asian or Pacific Islander   |  |  |  |  |
| Other livestock products – Specify   | baitfish.                            | 880                           | products —<br>Specify                  |   | 9 ☐ Other - specify,   |  |  |  |  |
| If more space is needed, use separa  |                                      |                               |  |   | <u> </u>   |  |  |  |  |
| SECTION 16 Did you or anyone else DUCKS, etc., on this p                       |                                      |                               |  | i,  | 3. AGE of operator (senior partner or person in charge) Years old  |  |  |  |  |
| contract basis.)   | this eastion                         |                               | NTORY Total                            | number  | 4. SEX of operator (senior partner or person in charge) 1 🗀 Male 2 🗀 Female  |  |  |  |  |
| 2 NO - Go to sec   |                                      | this                          | place sold in                          |   | 5. SPANISH ORIGIN — Is the operator (senior partner  |  |  |  |  |
| 1. HENS and PULLETS of laying age .  |                                      | 892                           | 893                                    |   | or person in charge) of Spanish origin or descent 927 (Mexican, Mexican American, Cuban, or other Spanish)?1 Yes 2 No                    |  |  |  |  |
| 2. PULLETS 3 months old or older not   |                                      | 894                           | 895                                    |   | 6. PRINCIPAL OCCUPATION - At which occupation did the operator spend the majority (50 percent or   |  |  |  |  |
| 13. PULLET CHICKS and PULLETS un   |                                      | 896                           | 897                                    |   | more) of his work time in 1978? For partnerships 928   |  |  |  |  |
| (Exclude commercial broilers.)   |                                      | 🗆 898                         | 899                                    |   | consider all members of the partnership together   Farming 2   Other   |  |  |  |  |
| 4. BROILERS, fryers, and other meat ty including capons and roasters           |                                      | ĺ                             | 039                                    |   | 7. OFF FARM WORK - How many days did the operator (senior partner or person in charge) work at least                                     |  |  |  |  |
| 5. TURKEYS   |                                      | 900                           | 901                                    |   | 4 hours per day off this place in 1978? Include work at a nonterm job, business, or on someone else's farm.                              |  |  |  |  |
| a. Turkeys for slaughter (Exclude bri  | eeders.)                             | 🗆                             | 903                                    |   | (Exclude exchange farm work.)  |  |  |  |  |
| b. Turkey HENS kept for breeding .   |                                      |                               | 903                                    |   | s ☐ 150-199 days<br>6 ☐ 200 days or more   |  |  |  |  |
| 6. OTHER POULTRY raised in captivity pigeons or squab, pheasants, quail, s     |                                      |                               |  |   |  |  |  |  |  |
| name and code from the list below.)  | ote. IEmer poortry                   |                               | 1                                      |   | SECTION 21 Was any of the land in this place held under FOREIGN OWNERSHIP in 1978?   |  |  |  |  |
| Poultry name   | Code                                 |                               |  |   | 2 ☐ NO   |  |  |  |  |
| Poultry name   | Code                                 |                               |  |   | 3 Don't Go to section 28   |  |  |  |  |
| Name Code Nam  | •                                    | Code Name                     |  | Code  | Of the total acres in this place, how many were owned by -   |  |  |  |  |
| Ducks 904 Pige<br>Geese 906 Phea   | eons or squab<br>asants              | 910 Allò                      | ther poultry -                         | 912   | 1. Individuals who are NOT citizens of the United States?  |  |  |  |  |
| 7. POULTRY HATCHED on this place   | in                                   |                               |  | . 717   | A foreign held corporation or unincorporated association, or a foreign government?   |  |  |  |  |
| 1978 and placed or sold - chickens,  |                                      | None 916                      | Number                                 |   | SECTIONS 22 – 27 Not applicable to this form   |  |  |  |  |
| turkeys, ducks, etc Specify kind o   |                                      | 917                           |  |   | SECTION 28 PERSON COMPLETING THIS REPORT - Please print  |  |  |  |  |
| 8. Incubator egg capacity on December  9. What was the gross value of sales of |                                      |                               |  |   | Name 999 Date  |  |  |  |  |
| and poultry products (eggs, etc.) from   | n this                               | Gross value<br>Dollars        | of sales<br>Cents                      |   | Telephone Area code Number   |  |  |  |  |
| place in 1978? Include estimated va<br>poultry and poultry products moved to   | rom this                             | 918                           | Cents                                  |   | When the data have been tabulated, do you want a summary 029   |  |  |  |  |
| place by contractors and others  | ····· 🗀                              | \$                            | : 1                                    |   | sheet showing major census results for your county?   YES 2 NO   |  |  |  |  |

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Page 4

## (Sections 22 through 27 were collected from only 20 percent of the farms; see text)

| SECTION 22 Was any COMMERCIAL FERTILIZE LIME used on this place during 197  | ER, including ROCK P<br>8?                       | HOSPHATE, or   | SECTION 25                            | EXPENDITURI<br>form business (                |                    |                                  | i petroleun               | n products for the                     |                            |
|---|--|--|---------------------------------------|---|--------------------|----------------------------------|---------------------------|--|----------------------------|
| .022<br>1 YES - Complete this section   |  | Acres  | and others fo                         | inditures paid by<br>or production of i       | crops.             | Expendi                          | tures                     | Gallons                                | Storage<br>capacity on     |
| 2 NO - Go to section 23   | Non  |  | livestock, at products from in 1978.  | nd other agricults                            | ural<br>None       | Dollars                          | Cents                     | purchased<br>in 1978                   | this place<br>(in gallons) |
| Acres of cropland fertilized in 1978, other than coused only for pastures reported in section 10, ite   | ropland  |  | 1. Gasoline for                       |   |                    | 966<br>\$                        |                           | 967                                    | 968                        |
| Acres of pastureland and rangeland fertilized   |  | 933  | 2. Diesel fuel f<br>business          | or the farm                                   |                    | 969                              | ]<br>!<br>!               | 970                                    | 3/1                        |
| in 1978 reported in section 10, items 2b and 4  | .,,,   | L  |                                       | me, propane for<br>iness (4.5 lbs.=           |                    | 972                              |                           | 973                                    | 974                        |
| 3. LIME — tons of time used and acres on Ni<br>which applied (Do not include land plaster   | one Tons of lime                                 | Acres limed  |                                       |   |                    | 975                              | -                         | 976                                    | 977                        |
| or gypsum or time for senitation.)  |  |  | 4. Fuel oil for I                     | the farm busines<br>for the farm              |                    | 978                              | i                         |  |                            |
| SECTION 23 Were any INSECTICIDES, HERBICIT<br>OTHER PESTICIDES, or OTHER C  | DES, FUNGICIDES, N<br>Hemicals used on th        | EMATICIDES,<br>is place in 1978?                               | business                              |   |                    | 979                              | 1                         |  |                            |
| 1 YES - Complete this section   |  |  |                                       | business                                      |                    | \$ 980                           |                           |  |                            |
| 2 □ NO → Go ta section 24   |  |  | 7. Electricity for business           | or the farm                                   |                    | s                                | -                         |  |                            |
| Include any materials provided by you, your land-<br>item listed, report acres only once. If multipurpo                                       | ords, or contractors. I<br>se chemicals were use | For each<br>od, report   |                                       | wood, coke, etc                               | • 🗆 ]              | 981<br>\$                        |                           |  |                            |
| acreage treated for each purpose.   |  |  | SECTION 26                            | SELECTED PR<br>for this place in              |                    | TON EXPENS                       | ES paid by                | y you and others                       | 1.1 1.<br>4                |
| Sprays, dusts, granules, fumigents, etc., (fungicul<br>herbicide, insecticide, nematicide) to control —                                       | le, None   | Number of acres<br>on which used                               | havers and o                          | others for graduc                             | tion of            | crops, livesto                   | ck, and off               | andlord, contracto<br>her agricultural | rs,                        |
| a. Insects on hay and other crops   |  | 937  | products in t<br>customwork           | 978. DO NOT I<br>for others; opera            | NCLUD<br>tion of a | E expenses co<br>nonfarm activi  | onnected w<br>ties, busin | rith performing<br>nesses, or service  | ıs,                        |
| b. Nematodes in crops   | ا ا  | 938  |                                       | expenses not re                               |                    |                                  | 100                       | Selec                                  | ted expanditures           |
| c. Diseases in crops and orchards (blights, smuts rusts, etc.)  |  |  |                                       | ed poultry purcha<br>heep, lambs, go          |                    |                                  |                           | None Do                                | ollars Cents               |
| d. Weeds, grass, or brush in crops and pasture  |  | 939  | poults, starte                        | ed pullets, etc<br>urchased for live          |                    |                                  | • • • • • •               | ···· 🍱 📴                               |                            |
|   |  | 940  | hay, silage,                          | mixed feeds, cor<br>ally mixed formu          | rcentrat           | es, etc                          |                           | ···· 🗆 🕽                               |                            |
| Z. Chemicals for defoliation or for growth control of crops or thinning of fruit  | l  |  | complete,                             | supplement, con<br>clude                      | centrah            | BS.                              |                           |  |                            |
| 3. Were any chemicals used for -  |  |  | ingredient                            | s puichased<br>, such as<br>eal, None         |                    | Tenths 96                        | Dollars<br>5              | Cents                                  |                            |
| Insect control on livestock and poultry, including treatment of buildings?  | 941 Vec  | _2 □ No  | CULTURIOUS                            | meal,   |                    | /10 \$                           | ·                         |  |                            |
| b. Sanitation, rodent and bird control, etc.?  (Include line for sanitation)  |  |  | 3. Animal healt<br>veterinaries       | h costs for lives                             | itock an           | d poultry. Inc                   | dude<br>s, etc            |  | i<br>!                     |
| (Include line for sanitation) SECTION 24 MACHINERY AND EQUIPMENT OR 1   |  | 2 □ N0   |                                       | , plants, and tre                             | 化二氯甲基酚 电压线         | 化复数分配 医二环性原体                     |                           |  | 1                          |
| (Include only equipment used for agr  | ichiphes obstațiana ju<br>Nice di pecanna        | 1977 or 1978.)   | phosphate as                          | lertilizer purcha:<br>nd gypsum. <i>Rep</i> c | ort custo          | om application                   | costs in                  |  | 1                          |
| .Value of ALL machinery and equipment on this   | place, December 31, 1                            | 978  | 6. Agricultural                       | chemicals purch<br>ther pesticides,           | ased -             | insecticides,                    | herbicides                |  |                            |
| What is the estimated market value of ALL machine equipment, and implements usually kept on this plant.                                       | ace Esti   | mated market value   | application o                         | costs in item 9 b<br>rranch labor (S          | slow               |                                  |                           | 990                                    | i                          |
| and used for the farm or ranch business? include trucks, tractors, combines, plows, disks, harrows,   | etrogre i i                                      | Joilars Cents  | a. Of the him                         | ed workers, incli<br>ikers, how many          | uding pa           | id None                          | Number                    | of workers                             | 1                          |
| pumps, motors, irrigation equipment, dairy equipm<br>including milkers and bulk tanks, livestock feeder<br>ganding and mixing equipment, etc. | 943<br>53.<br>5                                  | 1  | 100 May 200 Carlot 1 March 200 Carlot | i 150 days or mo                              | 177 16 1           |                                  | 991                       |  |                            |
|   | (  | Ta   | (2) Worked                            | f less than 150 d                             | lays? .            | Y3680 (1) Y3 2 1                 | 992                       |  |                            |
| SELECTED machinery and equipment on<br>this place, December 31, 1978. (Report   | Total number on this place on                    | Of the total, HOW<br>MANY were manufac-<br>tured in the last 5 | as harvestim                          | 01 – include exp<br>g of truit, vegete        | ibles, b           | enies, etc., p                   | erformed o                | ne                                     | f<br>I                     |
| anly If used in 1977 or 1978.) None   | December 31, 1978                                | years (1974–1978)?<br>(Number)                                 |                                       | is by a contracto<br>machine hire ar          |                    |                                  |                           | /#c                                    |                            |
| 2. Automobiles  | 946  | 947  | equipment                             | include expandi<br>wk such as grind           | tures fo           | v use of equip<br>I mixing feed, | ment and<br>plowing,      | 994                                    |                            |
| 3. Metertrucks (include pickups)  | 948  | 949  | dusting, fert                         | arn picking, dry<br>Hizing, etc. (Ex          | ciude c            | ast of catton (                  | gianiag) "                |  | i                          |
| 4. Wheel tractors other than garden tractors and motor tillers  |  |  | Law out the analysis of the           | ESTIMATED M your best ESTIM                   |                    |                                  |                           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | mt market value            |
| 5. Grain and bean combines, self-propelled only   | 950  | 951  | MARKET VA                             | ALUE of land and section 1, items             | d buildi           | ngs for the ac                   |                           | of land and                            |                            |
| Self-properior only     Corn heads for combines   | 952  | 953  | 1 8                                   | æd  |                    |                                  |                           | 996<br>\$                              | 1                          |
| 7. Other corn pickers and picker-shellers   | 954  | 955  | 2. All land ren                       | ted or leased FR                              | COM OT             | HERS                             | 🗖                         | 99 7<br>\$<br>998                      | 1                          |
| 8. Cotton pickers (Exclude cotton strippers)  | 956  | 957  | 3. All land ren                       | ted or leased TO                              | OTHE               | RS                               | О                         | \$                                     | i                          |
| 9. Mower conditioners   | 958  | 959  | 1                                     |   |                    |                                  |                           |  |                            |
| 10. Pickup balers   | 960  | 961  | 1                                     |   |                    |                                  |                           |  |                            |
| 11. Field forage harvesters, shear  | 304  | 963  | 1                                     |   |                    |                                  |                           |  |                            |
|   |  |  | J .                                   |   |                    |                                  |                           |  |                            |
|   |  | Pa   | age 6                                 |   |                    |                                  |                           |  |                            |

FORM 78-A1(I)

## **INFORMATION SHEET**

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

### 1978 CENSUS OF AGRICULTURE

#### GENERAL INFORMATION

WE NEED A COMPLETED REPORT FORM FROM EVERYONE receiving this request. Please follow the instructions given below for completing section 1. You will then be able to determine what additional information is to be provided.

- The enclosed census report form is being used by farms and ranches throughout the entire United States. Because it is meant for use in all parts of the country, it may contain sections and inquiries which do not apply to you. In this case, mark the "None" or "No" box and go on to the next item or section.
- 2. If You Receive More Than One Report Form If you have multiple farming operations, you should complete a report for EACH SEPARATE and DISTINCT production unit, that is, each individual farm, ranch, feedlot, greenhouse, etc.; or combination of farms, etc., for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production. Return any duplicate or extra report forms in the same envelope with the report(s) you complete so we can remove the extra addresses from our mail register. In the space provided to the right of the address label of the report form you complete, write the 11-digit number from the label of the extra form or forms.

#### 3. Partnership Operations

A partnership is an association of two or more persons who have agreed (informally or under legal contract) on the amount of their contributions and profit distributions.

Complete only ONE report for the entire partnership farm and ranch operation, including all partners' shares on the same report. If two or more report forms were received for the partnership see 2 above.

Partners who also have separate operations of their own should complete reports for those separate operations. For additional information on Partnerships see section 19 below.

## 4. How To Enter Your Responses On The Report Form

Please enter your answers in the proper spaces, on the correct lines, and in the units requested, i.e., dollars, bushels, tons, etc. Write any explanation outside the answer spaces or on a separate sheet of paper.

Enter whole numbers unless the "Tenths" column is provided, such as reporting acres of lirish potatoes in section 2. If you have 1/2, 1/4, or 1/3 of an acre, convert to tenths. For example convert 1/2 to 5/10, 1/3 to 3/10, 1/4 to 2/10, etc.

If you do not recall exact figures, please give your best estimate. You may indicate "Est." (for estimated) beside the answer, if you like. For all dollar items, we need only whole dollars, although a "Cents" column is provided for those who wish to report cents.

### COMPLETING THE REPORT FORM

### Section 1 - ACREAGE IN 1978

This section determines the land for which you should report agricultural activities. It also provides space for reporting landlords, renters, and location(s) of agricultural activities.

Changes in the Acres Operated in 1978 – Report all land that YOU USED during 1978, and the crops and livestock production on that land, even if some or all of it was no longer a part of your operation on December 31, 1978.

If you had agriculture operations at any time during 1978, but quit farmingbefore December 31, 1978, report your 1978 crop and livestock production and sales from that land for the portion of the year that you operated the land. Please explain in the margin of the report form (or on a separate sheet of paper) that you quit farming or ranching during 1978 and give the approximate date and the name and address of the present

If you acquired land for agricultural operations, but did not use it for livestock or crop production in 1978, include the land in section 1. Please explain in the margin or on a separate sheet of paper.

Completing Items 1, 2, 3, and 4 of Section 1 — Use items 1, 2, and 3 to determine the acres of land that are your responsibility for the purpose of making the agriculture census report. Include all land that you were associated with in 1978, regardless of location or use, but do not include holdings of residential property not associated with agricultural operations. Report all land in whole acres in this section.

Item 1 — Land Owned — Report all land owned in 1978 whether held under title, purchase contract or mortgage, homestead law, or as heir or trustee of an undivided estate, by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

Item 2 - Land Rented or Leased FROM Others — Report all land rented by you, even though the landflord may have supplied equipment, fertilizer, or other materials and/or some supervision of the

INCLUDE in item 2 -

- a. Land (for agricultural uses) that you rented FROM others for cash payments
- b. Land worked on a share basis
- Land (owned by someone else) which you used rent-free
- d. Federal, State, Indian, or railroad land rented or leased by the acre

DO NOT INCLUDE in item 2 – Land used on a per-head or animal unit license or permit basis, such as land used under section 3 of the Taylor Grazing Act, National Forest Land, or Indian Reservation Permit Land.

Item 3 — Land Rented TO OTHERS — Cash tenants, share tenants, and share croppers are farm operators for census purposes and are responsible for making the agriculture census report for the land they operate.

INCLUDE in item 3 -

- a. Owned land rented TO others for cash or a share of the crops or livestock
- b. Land which you rented from others and then subleased to others in 1978
- c. Land rented out for residential or other nonfarm purposes, if it was part of the land reported in item 1 or 2
- d. Land worked for you by someone else on a share-of-crop basis
- e. Land which you allowed others to use rent-

NOTE: Please enter the names and addresses of renters, tenants, and sharecroppers in item 6.

Item 4 – Acres in this Place – This is the sum of the land that you owned in 1978 (item 1), PLUS the land that you rented FROM others (item 2), MINUS the land that you rented TO others (item 3). It is very important that you report this figure correctly (even if "0" acres), since the remainder of your report should cover only those operations on "the Acres in This Place" reported in item 4.

## "Zero Acres in Place" - Should you complete the

If you yourself had crop or livestock activities on the land for any portion of the year, you should complete the rest of the form. See "Changes in Acres Operated in 1978," above.

If all your land was operated by a renter or sharecropper for all of 1978, you do not have to complete the entire form. In this case, you should:

- a. Complete item 6 for renter.
- Skip to section 28 and complete Name, Address, Telephone number, etc.
- c. Explain briefly in the margin or on separate paper that you did not operate a farm or ranch in 1978. For example, "All land rented out," "Sold Farm," "Retired," etc., and give the approximate date that

you quit operating. If you sold your farm, please give the name and address of current owner or operator, if known.

d. Mail the form in the return envelope provided

Item 7 — Grazing Permits — In some States, government lands and Indian lands are used for grazing livestock under permit or special license, with payments on a per-head or animal unit basis. This land should NOT be included as part of item 2, "Land rented or leased FROM others," or item 4, "Total Acres in This Place." But you should include in your report any livestock located on permit land in 1978.

### Sections 2-8 - CROPS

Sections 2 through 8 provide space for reporting crops harvested during the 1978 crop year from the land shown in section 1, item 4, of your report. Please report your crops in the appropriate section. Do not include any crops grown on land rented, leased, or worked on shares by others during 1978.

Acres Harvested — Enter the acres harvested in 1978. Round fractions to whole acres except where tenths are requested, as for Irish potatoes.

Quantity Harvested — The units of measure on the report form are those most commonly used throughout the country. If you use a different unit of measure, please convert your figure for quantity harvested to the unit requested. If harvest is incomplete by December 31, 1978, please estimate the total quantity harvested.

Crop Irrigation — For each crop irrigated, report number of acres irrigated. Irrigation is defined as land watered by artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, purposeful flooding, etc. Include acres that received supplemental, partial, and preplant irrigation. For any crop not irrigated, leave "Acres irrigated" blank.

### How to Report Crops Harvested

- a. Sections 2 and 3 In these two sections, separate lines are provided for reporting each of several crops widely grown in the United States. Do not write in data for any other crops.
- b. Sections 4-8 In each of these sections, report any of the crops listed in the same section. To report a crop in any of these sections, (1) find the crop name and the code number in the list in the section; (2) enter crop name and code in the first two columns of the first available answer line in the section; (3) enter the information requested in the headings of the remaining columns.

Example: A farmer harvested 20 acres of alfalfa seed, yielding 6,000 pounds, and 30 acres of red clover seed, yielding 8,400 pounds. (He did not irrigate either crop.) He would enter the following in section 8:

|                            |           |                 | on this place on 1978<br>and previously repor |                |
|----------------------------|-----------|-----------------|---|----------------|
|                            | 5 - campa | to this section |   |                |
| . □ NO                     | - 00 10 1 | upction 9       |   |                |
| Part 2000-1-00 W-SV CLOD 4 |           |                 |   |                |
| C100 NA                    | Cope      | Acres Opinested | Quantity Netwested                            | Acres ausgates |
| olfate ped                 |           |                 | 6,000   | Acres angelen  |
|                            | 542       |                 | 1 4   | Açrès aregéles |
| offer seed                 | 542       | 20              | 6,000   | Açres aragator |

If more space is needed, use separate sheet of paper.

Two or More Crops Harvested From The Same Land (Double-Cropping) — Report the total acres and production of each harvested crop in the appropriate section of the report form.

Example: A farmer harvested 1,230 bushels of wheat from 40 acres in 1978, then planted and harvested 1,550 bushels of soybeans from the same 40 acres before the end of the year. He irrigated the soybeans but not the wheat.

| Corre  | ect entries | Acres | Bushels | Acres irrigated |  |  |
|--------|-------------|-------|---------|-----------------|--|--|
| item 3 | Wheat       | 40    | 1,230   |                 |  |  |
| Item 8 | Sovbeans    | 40    | 1.550   | 40              |  |  |

### Sections 2-8 - CROPS - Continued

Interplanted Crops and "Skip Row" Planting —
If two crops were grown at the same time in
alternating strips in the same field, report the
portion of the field used for each crop.

Example: A 60 acre field was planted in cotton and soybeans, with two rows of cotton followed by an area of the same width planted in soybeans. Thirty acres of soybeans would be reported in section 2, item 8, and 30 acres of cotton in section 2. item 9.

Vegetables — Report acres of vegetables harvested FOR SALE. Do not report acres of vegetables for home use. Report the total acreage of each vegetable error harvested.

Example: You harvested 10 acres of lettuce from a field in 1978, then replanted the field to lettuce and harvested the 10 acres again. Enter only 10 acres of land from which vegetables were harvested in item 1 of section 5, but write in 20 acres of lettuce harvested in item 2 of section 5.

Fruit and Nuts — In counting the combined total of 20 or more trees and vines, include those for home use as well as those maintained for sale of the production (exclude abandoned trees).

If crops other than fruit and nut trees and vines were interplanted with trees or vines, report the total acres for BOTH the orchard and the interplanted crops harvested.

Example: If 20 acres of cotton were grown in a 30 acre pecan orchard, you would report 20 acres of cotton in section 2, item 9, and 30 acres of pecans in section 4.

#### Avocados, Olives, Sugarcane

Avocados — For California report the quantity harvested from November 1, 1977 through November 30, 1978. For Florida report the quantity harvested from April 1978 through March 1979, estimating if necessary.

Olives — Report the quantity harvested from the bloom of 1977 for the October 1977 to March 1978 harvest season.

Sugarcane – For Florida and Texas report cuttings from November 1977 through April 1978. For Louisiana and Hawaii report for the 1978 crop year.

### Section 9 - GROSS VALUE OF CROPS SOLD

Report the values received during 1978, regardless of the year in which the crops were harvested. Give gross values (before deducting taxes and expenses). If full payment was not received for a crop or crops sold in 1978, report only the amount actually received in 1978.

For value of grains and cotton, include as sold the value of government CCC loans received in 1978 but not loans obtained from any other government or private source.

## Section 10 - LAND USE

The purpose of this section is to classify the acres you reported in section 1, item 4, by principal use in 1978. Do not include any acres you rented TO others (reported in section 1, item 3).

Land Used for Multiple Purposes — If part of your land was used for more than one purpose in 1978, report that land on the line for the use first listed, and NOT on the line for the second use. For example, if you plowed under a cover crop, and planted and harvested a grain crop, report the land in item 2a, "Cropland harvested," but NOT as "Cropland used for cover crop, legumes, . . etc." (item 2c).

Double Cropping — When more than one crop was harvested from the same land in 1978, report that land only ONCE as "Cropland Harvested," item 2a of this section.

Interplanted Crops — If you interplanted crops, such as cotton in an orchard, report the total land used for both crops only ONCE, as "Cropland Harvested," in item 2a.

### Section 12-16 - LIVESTOCK AND POULTRY

Animais and Poultry to be Included in the Report—Report all animals and poultry on the place on December 31, 1978. Include all owned by you and any kept by you for others. Include animals on unfenced land, on National Forest land, on district land or cooperative grazing association land, or on rangeland administered by the Bureau of Land Management on a per-head or lease basis such as on wheat pasture). Include poultry (broilers, layers, turkeys, etc.) fed under contract on "This Place." Include livestock and poultry kept on this place for home use, 4H projects, etc.

Number sold — Report all animals and poultry sold or removed from this place including those sold for a landlord or given to a landlord as his share or to others in trade or in payment for goods and services. Include animals of all ages without regard to ownership or who shared in the receipts if the animals were located on the place 30 days or more and were sold or removed from the place in 1978.

Sales from Contract and Custom Feeding Operations — Include animals and poultry (including poultry under contract) fed on this place on a contract or custom basis if they were removed from the place in 1978.

Value of Sales — Be sure to report the total gross value of sales of animals and poultry without deducting cost of feed, cost of livestock purchased, cost of hauling and selling, etc. If the sale price or value is not known, give your best estimate of their value when they left this place.

Animals Moved to Another Place — For animals removed from this place to another place, such as for further feeding, report the number as sold and give your best estimate of their market value when they left this place.

Animals to be Excluded from the Report — Do not report any animals or poultry kept under a share arrangement on land rented TO others in 1978.

Animals Sold from Another Place – Animals owned by you, but held and sold from someone else's place should NOT be included. For example, on not report cattle purchased elsewhere, fed in, and sold from a feedlot not part of this place.

Animals Bought and Sold – Do not include animals bought and resold within 30 days. Such purchases and sales are considered "dealer" transactions.

Fat Cattle Sales — Do not include with fattened cattle in item 3a of section 12:

- Veal calves which were fattened primarily on milk, or
- b. Dairy cows fed only the usual dairy ration before being sold, or
- c. Cattle and calves that were sold for further

All Other Livestock – Specify the name of any other livestock, animal specialty, or livestock products on or sold from this place that have not been accounted for elsewhere on this form.

Example: Bees sold (colonies, packages, pounds); semen sales, animals bred and sold for laboratory use; birds, frogs, etc.

### Section 19 - TYPE OF ORGANIZATION

Use the following definitions to assist you in determining the type of organization for your operation:

Individual or Family Operation (Sole Proprietorship) — Defined as a farm or business organization controlled and operated by an individual. Includes family operations that are not incorporated and not operated under a partnership agreement. Partnership Operation — Defined as two or more persons who have agreed on the amount of their contribution (capital and effort) and the distribution of profits. Co-ownership of land by husband and wife or joint filing of income tax forms by husband and wife does not constitute a partnership, unless the agreement to share contributions, decisionmaking, profits, and liabilities exists. Producing products under contract or under a share rental agreement does not constitute a partnership.

Corporation — Defined as a legal entity or artificial person created under the laws of a State to carry on a business. This definition does not include cooperatives.

Other — Such as cooperative (defined as an incorporated or unincorporated enterprise or association created and formed jointly by the members), estate or trust (defined as fund of money or property administered for the benefit of another individual or organization), prison farm, grazing association, Indian reservation, etc.

## Section 20 - OPERATOR CHARACTERISTICS AND OCCUPATION

This section applies to the characteristics and occupation of the individual owner, operator, senior partner, or person in charge for the type of organization reported in section 19 of the form.

For Individual or Family Operation (Sole Proprietorship) — Complete this section for the operator.

For Partnership Operations — Complete items 1 through 5 and 7 (of this section) for the "Senior Partner." The "Senior Partner is the individual who is mainly responsible for the agricultural operations on this place. Consider the oldest partner as the "Senior Partner" if each shares equally in the day-to-day management decisions. For item 6 (Principal Occupation) consider all members of the partnership together. Please include as "Farming" worktime at all types of agricultural enterprises, including specialties, such as greenhouses, nurseries, mushrooms, ranching, feed lots, broiler feeding, etc.

For Incorporated and Other Operations (Cooperatives, Estates, etc.) — Complete section 20 for the person in charge, such as hired manager, business manager, or other person primarily responsible for the on-site, day-to-day operation of the farm or ranch business.

### Section 22 - COMMERCIAL FERTILIZER

Report acres on which commercial fertilizer was applied during 1978. If some acres where fertilized more than once, report acres ONLY ONCE.

### Section 24 - MACHINERY AND EQUIPMENT

The estimated market value in item 1 refers to ALL machinery and equipment kept on this place and used for the farm business. The value should be an estimate of what the machinery and equipment would sell for in its present condition, not the replacement or depreciated value.

## Section 26 - SELECTED PRODUCTION EXPENSES

Include expenses paid by you and by anyone else for the production of crops, poultry, livestock, and other agricultural products on this place. Also include expenses incurred even if payment was not made in 1978. Please give estimates if you do not know the exact figures. For example, if you grew broilers or fed cattle for others, include in item 1, as purchases, your best estimate of the value of the baby chicks or cattle at the time they were brought to this place. Also include in item 2, the value and amount of all feed purchased by you or someone else for use on this place.

Do not include expenses related to nonfarm activities (trading and speculation, or livestock dealer activities).

Hired Labor — Expenditures for hired labor should include gross wages or salaries, commissions, paid bonuses, and leave pay before deductions, plus the value of benefits paid by you — Social Security taxes, unemployment insurance, etc. Do not include room and board, house rent, or other items paid in kind.

Form Approved: O.M.B. No. 41-\$78038

| FORM 78-A1(A) U.S. DEP   | ARTMENT OF CONMENCE<br>BUREAU OF THE CENSUS    | THE               | CENSUS BU  | ase to this inquiry is required by law (fitte 13 U.S<br>REAU IS CONFIDENTIAL. It may be seen only by<br>purposes. Your report CANNOT be used for pur<br>does that copies retained in your files are immune | ly sworn Census employ<br>reases of taxation, inve | ees and may                           | be used             |  |
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| Part I - IDENTIFICATION  |  |                   |  | Part II - TYPE OF ORGANIZATIO  | N - Continued                                      |                                       |                     |  |
| items I through 6 C  | opy from A3 Record Book                        |                   |  | Type C - INCORPORATED UNDER  | Name   |                                       |                     |  |
| 1. State 2. County   | 3. Segment numbe                               | er 4. A3          | Line number  | STATE LAW  | L  |                                       |                     |  |
|  |  | _1                |  |  | Mailing address - Rou                              | ute/Box/Stree                         | f                   |  |
| 5. Name - First, Middle initial, Last  |  |                   |  | 1. What is the current name  | Post Office  | State                                 | ZIP code            |  |
| Mailing   a. Route/Box/Street  |  |                   |  | and mailing address of<br>this corporation?  |  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |                     |  |
| address  |  |                   |  | 2. Is this a family-held corporation?  | []VEC (  | T) NO                                 |                     |  |
| b. Post Office   |  | Staté             | ZIP code   |  |  |                                       |                     |  |
|  |  |                   |  | 3. Are there more than 10 stockholders?  |  | NO                                    |                     |  |
| 7. What is your (the person listed in Area code Number   | 8. In what                                     | year dio<br>In to | Year<br>060  | 4. Does this corporation have other separal  |  |                                       | Dire t              |  |
| item 5) telephone<br>number?   | operate of this                                | any part          |  | [] YES - Enter (ocation(s) and name(s)   | Z I I I I I I I I I I I I I I I I I I I            | IF 10 11 <del>0</del> 111 3           |                     |  |
|  |  |                   |  | (1) Location (State and county)  | Name   |                                       |                     |  |
| Employer Identification  | ne El number                                   |                   |  |  |  |                                       |                     |  |
| Number for this farm or NO ranch operation?  |  | $\perp$           |  | (2) Location (State and county)  | Name   |                                       |                     |  |
| Part II - TYPE OF ORGANIZATI   | ON   |                   |  | 1970 <del> </del>  |  |                                       |                     |  |
| Mark (X) type of organization as shown in colur  |  | nek me            | stion*   | 5. During the past two years,<br>has this form or ranch  | Name   |                                       |                     |  |
| for that type. Complete only one part of this pa   | ige. Data reported for subse                   | quent se          | ctions   | used any name or address   | L  |                                       |                     |  |
| of questionnaire relate only to the specific oper  |  |                   |  | Corbosation name and mailing   | Mailing address - Rou                              | ute/Box/Stree                         | t                   |  |
| Type A - INDIVIDUAL OR FAMILY OPERATION (Sole  | Name   |                   |  | address? [] NO   | Post Office  | State                                 | ZIP code            |  |
| 1 proprietorship)  | Mailing address - Route/E                      | Roy/Stree         |  |  | 1 000  |                                       |                     |  |
| 1. For business purposes, YES—>  | indicate indicate                              | JOX - 0.1-00      |  |  |  |                                       |                     |  |
| operated under any name NO   | Post Office                                    | State             | ZIP code   | 6. Does this farm or ranch employ a hired manager who is primarily in charge of  |  |                                       |                     |  |
| and and area   |  |                   |  | the farm or ranch operations?  | . t [ ] YES - Go to<br>Itam 7                      | 2 🗌 NO                                | - SKIP to<br>Item B |  |
| 2. During the past two YES-  | Name   | <u> </u>          | <u> </u>   | 7. Who is the hired manager?   |  |                                       |                     |  |
| years, have you received   |  |                   |  | [ ] Person named in part 1,<br>item 5 – SKIP to page 2   |  |                                       |                     |  |
| mail at any address I NO   | Mailing address - Route/E                      | 3ox/Stree         | 91   | Other - Specify and  | Name   |                                       |                     |  |
| I have listed?   | Post Office                                    | State             | ZIP code   | end interview  | Mailing address - Ro                               | ute/Box/Stree                         |                     |  |
| 3. Does this farm or ranch ampley a hired  | Post Office                                    | State             | ZIF Code   | a. Who is primarily in charge of<br>the farm or ranch operations?  | L  |                                       |                     |  |
| manager who is primarily in charge of<br>the farm or ranch operations?   | 1 YES - Go to 2                                | NO - 3            | SKIP to  | Person named in part 1.  | Post Office  | State                                 | ZIP code            |  |
|  | item 4   |                   | oage 2   | item 5 - SKIP to page 2  | L  |                                       | •                   |  |
|  | Name   |                   |  | Other - Specify and and interview  |  |                                       |                     |  |
| 4. Who is the hired manager?   | Mailing address - Roule/E                      | Jan /Steas        |  | Type D - OTHER ORGANIZATIONS   |  |                                       |                     |  |
| Person named in part 1, item 5 - SKIP to page 2  | marring address - Hodiere                      | 302731700         | ,,   | 1. What type of organization operates of co  | introle the operations of                          | this farm or                          | ranch unit?         |  |
| Other - Specify and SKIP   | Post Office                                    | State             | ZIP code   | 995  |  |                                       |                     |  |
| to page 2  |  |                   |  | ı [_  Estate 4 [_ State  | or Local 6 🗍 (                                     | Other - Speci                         | ν,                  |  |
| Type B - PARTNERSHIP OPERATIONS (Include family partnerships)  | Name   |                   |  | 2 (_) Trust Gove   | rainent  | ر                                     | e e                 |  |
| 2 1. For business purposes,  | 1  |                   |  | 3 Cooperative 5 Fede   | ral Government                                     |                                       |                     |  |
| what name and mailing address is used for this   | Mailing address - Route/E                      | sox/siret         | 21   | 2. What is the name and  | Name   |                                       |                     |  |
| partnership?   | Post Office                                    | State             | ZIP code   | mailing address of   | Mailing address - Ro                               | outo. Box/Stro                        |                     |  |
|  |  |                   |  | this organization? ————  | Mailing address - Ad                               | outer Box / 3/re                      | 91                  |  |
| A them many management and thereto   | Partners                                       |                   |  |  | Post Office  | State                                 | ZIP code            |  |
| 2. How many partners are there?  3. What is the name and mailing address o   |  |                   |  |  | 1  | <u> </u>                              | <u> </u>            |  |
| Person named in part 1, item 5 - Do  | けいちんてい こともちょういからない                             |                   |  | 1  | Name   |                                       |                     |  |
| Other - Specify (Use "Remarks" if  |  |                   |  | 3. What is the name and mailing address used for this farm   |  |                                       |                     |  |
| •  | b. <u>*</u>                                    |                   |  | or ranch operation?  | Mailing address - Ad                               | oute/Box/Stre                         | et                  |  |
| Name   | Name   |                   |  |  | Post Ciffica                                       | Texas.                                | 710 0000            |  |
|  |  |                   |  | 4  | Post Office  | State                                 | ZIP code            |  |
| Mailing address - Route/Box/Street   | Mailing address - Ro                           | ute/Box/          | Street   |  | 1  |                                       | 1                   |  |
| Post Office State ZIP cod  | le Post Office                                 | State             | ZIP code   | 4. During the past two years,   YES  | Name   |                                       |                     |  |
| 3.5.   |  |                   | L  | has this term or ranch used any other name or NO   | Mailing address - Ro                               | oute/ Boy / Stro                      | ot                  |  |
| 4. Does this partnership employ a hired ma   | mager who is , TYES                            | Go to             | item 5   | mailing address?   |  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                     |  |
| primarily in charge of the farm or ranch   | operations?                                    |                   | 1987年1987年198日 - 1987年198日 |  | Post Office  | State                                 | ZIP code            |  |
| 5. Who is the hired manager?   | Name   | <u> </u>          |  | 5. Does this organization amploy a hired   | <u> </u>   |                                       | <u> </u>            |  |
| Person named in part 1.  Item 5 - SKIP to page 2   |  |                   |  | manager who is primarily in charge of<br>the farm or ranch operations?   | . 1 [] YES - Go to                                 | s □ NO                                | - SKIP IO           |  |
| Other - Specify and and Interview-   | Mailing address - Route/E                      | Box/Stree         | et   | 6. Who is the hired manager?   | itam 6   |                                       | item 7              |  |
| 6. Which partner is primarily in charge  | Post Office                                    | State             | ZIP code   | Person named in part 1,  |  |                                       |                     |  |
| of the farm or ranch operations?   | Post Office                                    | State             | 217 6000   | item 5 — SKIP to page 2  |  |                                       |                     |  |
| SKIP to page 2   | · <del>La companya ya</del>                    | 4-3               | 15.15.024.5  | Other - Specify and end interview  | Ti.  |                                       |                     |  |
| Other partner - Specify and end inte   | rview  |                   |  | 7. Who is primarily in charge of the   | Name   |                                       |                     |  |
| None - Go to Hem 7   | <b>X</b> 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |                   |  | farm or ranch operations?  | Mailing address - Ro                               | oute / Box / Stree                    |                     |  |
| 7. Who is the eidest puriner?  | Name   |                   |  | Person named in part 1. item 5 – Go to page 2  | 1  |                                       |                     |  |
| Person named in part 1, item 5 - SKIP to page 2  | <del></del>                                    |                   |  | Other - Specify and  | Post Office  | State                                 | ZIP code            |  |
| Other - Specify and end interview -  | <b>*</b>                                       |                   |  | end interview  | d  |                                       | 1                   |  |