APPENDIX A. General Explanation

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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 complete dorms 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, custom-work, 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 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 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 itemscropland 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. Writein 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, co-operatives, 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 work time 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 farm-nonfarm 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 134 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 of total
Farms	9.2
Land in farms	7.5
Value of agricultural products sold	6.2
Harvested cropland	7.4
Corn for grain or seed acres	6.9
Wheat for grain acres	6.7
Cattle and calves	7.2
Hens and pullets of laying age	1.0
Hogs and pigs	7.1

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

Item Farmsnumber Land in farms	Quantity 121,955 30,848,898 96,905 12,663,878 2,381 343,672 121,955 3,363,122 78,921 1,413,013	Standard error (percent) 0.8 .5 .8 .6 5.9 6.7 .7	Quantity 97,862 28,854,226 82,203 12,378,136 2,081	Standard error (percent) 0.6 .4 .5
Land in farmsacres Harvested croplandfarms acres Irrigated landfarms Agricultural products soldfarms \$1,000 Cropsfarms	30,848,898 96,905 12,663,878 2,381 343,672 121,955 3,363,122 78,921	.5 .8 .6 5.9 6.7	28,854,226 82,203 12,378,136	.4 .5
Harvested croplandfarms acres Irrigated landfarms Agricultural products soldfarms \$1,000 Cropsfarms	30,848,898 96,905 12,663,878 2,381 343,672 121,955 3,363,122 78,921	.8 .6 5.9 6.7	82,203 12,378,136	.5
acres Irrigated landfarms acres Agricultural products soldfarms \$1,000 Crops	12,663,878 2,381 343,672 121,955 3,363,122 78,921	.6 5.9 6.7	12,378,136	
Irrigated landfarms acres Agricultural products soldfarms \$1,000 Crops	2,381 343,672 121,955 3,363,122 78,921	5.9 6.7		
acres Agricultural products soldfarms \$1,000 farms	343,672 121,955 3,363,122 78,921	6.7	2,081	.6
Agricultural products soldfarms \$1,000 Cropsfarms	121,955 3,363,122 78,921		240 415	3.9 6.7
\$1,000 Cropsfarms	3,363,122 78,921	• / 1	340,615 97,862	.6
Cropsfarms	78,921	.4	3,328,741	.4
		. 5	71,113	.4
\$1,000		.8	1,402,556	.8
Livestock, poultry, and their productsfarms	100,449	.6	83,282	.7
\$1,000	1,950,109	.4	1,926,185	.4
Value of machinery and equipmentfarms	121,688	.8	98,251	.6
\$1,000	2,946,691	.8	2,782,207	.9
Average value of land and buildings per farmdollars	185,361	.7	214,299	.7
Corn for grain or seedfarms	32,363	.7	30,971	.7
acres.	2,287,335	1.9	2,272,579	1.9 1.8
bushels Wheat for grainfarms	189,917,328 17,727	1.8	189,073,283 17,138	.7
acres.	835,771	1.0	827,310	1.1
bushels.	27,607,066	1.0	27,402,826	1.0
Soybeans for beansfarms	41,985	.7	40,168	.7
acres	5,216,438	.5	5,186,920	.5
bushels	142,111,661	•4	141,531,384	.4
Cattle and calves inventoryfarms	88,775	.7	· 72,997	.6
number	4,907,615	.4	4,692,690	.4
Cattle and calves soldfarms	88,642	.7	75,107	.4 .6 .7 .7 .7
number.	2,970,825	.6	2,896,693	./
\$1,000	961,588	.7	944,144 30,365	. /
Hogs and pigs inventoryfarms number	34,635 3,894,548	.6	3,826,794	.5
Hogs and pigs soldfarms.	35,381	1.4	31,681	.5 1.0
number \$1,000	6,566,334 564,937	.7	6,483,716 560,957	.6 .6
Sheep and lambs inventoryfarms	2,828	5.7	2,504	6.4
number.	117,087	1.8	110,184	2.0
Sheep and lambs soldfarms	2,760	5.9	2,469	6.5
number	95,815	2.6	91,368	2.7
Hens and pullets of laying age inventoryfarms	14,714	2.7	10,573	2.3
number Hens and pullets of laying age soldfarms	6,768,851 1,498	1.5	6,666,988 1,273	.7
number.	5,459,574	1.8	5,447,815	1.8
Commercial fertilizer usedfarms	73,851	.7	66,061	.6
acres.	8,983,691	.9	8,810,614	.9
Commercial fertilizer purchased	76,541	.7	68,288	.6
\$1,000	213,146	1.0	209,895	1.0
Agricultural chemicals purchased	65,700	.7 1.5	58,931 89,960	1.5
chemicals used on crops for insect controlfarms	91,333 25,041	1.5	23,007	1.3
chemicals used on crops for insect controlacres.	2,336,407	3.0	2,311,855	3.0
Chemicals used on crops for disease controlfarms acres	2,292 137,286	7.1 5.7	1,788 134,585	4.8 5.8
Gasoline purchasedfarms	116,387	.8	94,224	.6
1,000 gallons.	158,974	.7	(NA)	(NA) .7
\$1,000	90,858 44,013	.7 .9	86,802 41,036	.8
Diesel fuel purchasedfarms 1,000 gallons	95,902	.9	(NA)	(NA)
\$1,000	44,118	.9	43,752	.9
Livestock and poultry purchased	49,419	1.4	42,045	1.0
\$1,000	411,327	1.7	40,713	1.8
Feed purchased	94,666	.9	78,273	.8
\$1,000 forma	519,603 38,168	.9 1.0	509,562 34,745	1.0
Hired farm laborfarms \$1,000	116,046	1.0	113,103	1.0

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 (percent)
25 farms 50 farms 250 farms 500 farms 750 farms	20.0 14.0 9.0 6.0	1,000 farms 1,500 farms 2,000 farms 3,000 farms 4,000 farms 5,000 farms	2.0 1.0 (NA) (NA) (NA)

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

[Average v	mine of					Cher	micals used	on crops for	
County	land and b per f	uildings	Value of mac equip		Acres fert	tilized	Insect c	control	Disease	control
		Standard	Volue	Standard	· · · · · · · · · · · · · · · · · · ·	Standard error		Standard error		Standard error
	Value dollars	error (percent)	Value (\$1,000)	error (percent)	Acres	(percent)	Астев		Acres	(percent)
Adair	151,674	3.8	22,871	5.0	51,880	7.9	11,079	16.0	1,160	1.0
Andrew	195,793	3.9	31,129	5.6	67,333	6.5 3.4	36,695	13.0	2,935 (D)	22.0 (D)
Atchison Audrain	425,923 309,426	2.6 3.9	42,402	4.5 4.7	139,514 167,984	5.6	66,853 55,486	13.0	1,989	43.0
Barry	103,635	3.1	21,520	5.2	88,647	5.5	3,419	14.0	3,264	27.0
Barton	223, 902	4.2	37,581	4.8	169,228	5.2	22,045	15.0	349	58.0
Bates	213,405	2.4	40,825	4.2	190,570	3.7	29,600	12.0	1,844	13.0
Benton Bollinger	138,777 117,194	4.2 5.3	17,429 15,723	6.2 5.4	59,512 61,020	9.6	7,341 5,081	19.0 15.0	80 184	21.0 72.0
Boone	199,204	4.2	31,115	5.1	55,149	7.0	12,061	17.0	1,317	32.0
Buchanan	225,460	4.6	28,972	7.6	63,588	5.9	35,400	9.4	638	26.0
Butler Caldwell	216,383 171,990	6.1 3.5	33,509 22,694	6.5 7.4	155,607 45,505	7.3	34,062 15,973	21.0 13.0	1,180 508	80.0 58.0
Callaway	189,747	3.4	31,107	4.5	81,996	5.2	24,021	11.0	860	51.0
Camden	160,900	11.0	7,341	8.0	23,297	9.7	2,705	25.0	(D)	(D)
Cape Girardeau	161,124	3.6	35,155	5.4	85,631	6.4	18,515	16.0	1,602	30.0
Carroll Carter	281,862 99,323	3.0 4.5	49,582 2,203	4.1 5.1	119,297	4.9 13.0	62,089 368	7.6	1,825	14.0
Cass	206,526	3.2	38,286	4.9	6,346 133,626	4.9	32,805	10.0	3,885	60.0
Cedar	109,236	4.0	15,337	8.8	55,457	6.6	4,074	25.0	129	54.0
Chariton Christian	254,597 114,853	2.8 3.8	49,215 17,692	3.1	128,040 65,461	4.3	43,534 6,715	9.0 13.0	741 428	35.0 30.0
Clark	277,030	4.5	39,109	4.6	87,237	5.9	38,387	13.0	428 (D)	(D)
Clay	290,007	5.0	14,299	6.0	39,089	7.8	13,642	15.0	826	5.1
Clinton	215,328	3.8	23,476	5.7	58,986	7.7	12,374	9.3	-	.0
Cole	104,627 203,399	4.9 3.6	14,739	7.0	33,808	7.9	6,007	21.0	1,159	46.0
Cooper Crawford	124,536	4.1	33,363 7,946	4.7	102,884 23,862	5.3 11.0	30,022 524	12.0 38.0	1,126 322	25.0 43.0
Dade	158,476	3.8	21,782	8.1	98,992	6.7	6,646	25.0	2,370	34.0
Dallas	105,690	4.8	15,758	5.2	40,413	8.2	4,933	16.0	240	52.0
Daviess De Kalb	209,197 192,394	4.1 4.3	35,001 25,947	6.3 4.7	84,004 62,666	5.8	40,536 25,582	7.3	1,000 1,674	40.0 49.0
Dent	88,140	3.7	7,036	6.4	27,658	7.8	1,285	36.0	159	72.0
Douglas	107,047	4.2	14,075	7.1	63,725	6.5	2,908	42.0	6	69.0
Dunklin	358,752	3.2	43,490	3.7	191,140	3.1	66,356	11.0	8,114	11.0
Franklin	154,687 117,813	3.6 6.3	33,820 14,793	4.9	90,825 48,146	6.8 6.7	16,199	12.0	962	51.0
Gentry	208,872	4.4	26,301	6.8	67,943	6.6	8,896 30,792	13.0	253 3,434	53.0 36.0
Greene	142,474	3.5	27,315	3.9	86,450	6.6	9,825	11.0	1,449	33.0
Grundy	219,160	7.4	25,290	6.2	67,211	7.5	32,315	10.0	(D)	(D)
Harrison Henry	194,457 212,898	3.6 3.5	34,345 32,808	7.1	82,869 116,643	6.1	25,358 13,201	11.0	60 (7)	.9
Hickory	131,101	5.0	7,141	5.2	30,195	4.3 8.1	5,443	11.0	(D)	(D) .0
Holt	346,114	5.0	36,407	4.8	95,795	5.2	48,317	9.3	2,000	32.0
Howard	223,258	3.6	25,105	5.1	65,386	6.4	22,722	11.0	2,995	53.0
Howell	95,084	3.5	18,061	3.5	87,713	5.0	6,779	13.0	346	42.0
IronJackson	93,984 278,161	7.0 4.9	3,599 22,444	8.3	7,462 52,050	16.0	1,268	41.0	(D)	(D)
Jasper	153,314	4.0	31,518	4.9	110,386	7.6	16,125 12,373	8.1 17.0	1,440	7.1
Jefferson	165,405	7.0	13,094	8.0	17,731	14.0	3,692	38.0	245	66.0
Johnson	169,266	2.8	41,539	3.7	129,655	4.4	22,665	9.8	1,119	35.0
Knox	276,604 112,311	4.3	26,771 15,903	6.0 5.5	89,422 61,811	5.4	27,113	12.0	(D)	(D)
Lafayette	227,915	3.3	51,437	3.8	141,643	7.6	4,599	28.0	189 2,599	2.4 18.0
Lawrence	136,567	3.0	34,312	5.2	133,127	5.7	9,598	16.0	2,399 887	18.0
Lewis	252,293	4.2	33,030	6.5	108,231	5.0	31,655	11.0	150	85.0
Lincoln	218,870	3.3	44,297	4.0	103,366	3.7	33,648	9.4	908	80.0
LinnLivingston	215,778 214,431	2.8 3.8	32,154 30,699	5.2	85,185 52,927	5.1	16,214 25,348	14.0	1,339	18.0
McDonald	134,533	8.2	15,212	5.6	32,456	10.0	1,392	23.0	(D) 1,406	- (D) 40.0
Macon	190,763	3.6	40,678	4.9	101,358	6.0	34,868	10.0	(D)	(D)
Madison Maries	111,243	6.0 4.2	4,626	6.5	18,285	12.0	687	46.0	40	.7
Maries	105,468 245,101	4.2	10,335 29,141	6.0 9.3	50,903 81,383	7.5	668 21,720	34.0 11.0	-	.0
Mercer	206,371	5.9	16,959	6.3	65,887	7.6	16,447	16.0	2,128 464	40.0 29.0
Miller	99,595	4.1	14,251	5.0	41,220	9.7	2,444	26.0	(D)	(D)
Mississippi	725,497	2.0	39,407	2.2	116,873	3.4	48,772	7.0	3,837	62.0
Moniteau	128,165 284,245	5.1 3.3	18,162	5.6	70,766	6.9	13,310	22.0	426	.0
Montgomery	201,410	4.6	32,948	5.9	125,447 85,519	5.9 6.1	32,820 24,742	12.0 10.0	1,466	.0 44.0
Morgan New Madrid	124,630 644,166	3.9	16,890 52,514	4.9 3.6	45,097 187,798	8.3	5,532	16.0	570	61.0
Newton	107,686	3.3	25,774	8.4	76,344	2.9	52,899 6,559	8.1	14,729	30.0
Nodaway	292,650	4.4	57,848	3.1	153,189	3.5	62,504	7.0	1,730 1,352	34.0 19.0
Oregon	92,785	4.3	9,370		48,114	9.0	2,442	15.0	247	10.0
Osage Ozark	108,307 121,893	3.6 5.3	20,679	5.1 5.4	66,724	6.0	8,264	20.0	1,165	38.0
Pemiscot	474,908	3.7	9,717 37,869	5.4 4.7	42,339 85,161	7.6 4.8	1,396 38,473	18.0	-	.0
Perry	168,713	6.8		5.6	79,426	6.7	18,419	15.0	962 1,091	8.2 50.0
			•				.,	-2.01	1,071	50.0

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

Γ	Average value of						Chemicals used on crops for				
County	land and bu per fa	ildings	Value of mac equip		Acres fert	ilized	Insect co	ontrol	Disease o	control	
	Value dollars	Standard error (percent)	Value (\$1,000)	Standard error (percent)	Acres	Standard error (percent)	Acres	Standard error (percent)	Acres	Standard error (percent)	
Pettis. Phelps. Pike. Platte. Polk. Pulaski. Putaaki. Ralls. Randolph. Ray.	210,822 124,290 270,495 266,846 118,605 100,457 169,538 275,824 199,918 206,876	3.4 4.9 8.8 7.3 3.2 6.9 5.0 4.6 4.5 4.0	39,289 8,611 42,251 27,088 23,065 5,906 17,585 31,729 21,237 32,785	4.6 6.4 4.5 5.9 3.8 7.0 8.2 6.2 4.4 3.8	130,267 28,869 122,717 57,938 79,072 20,033 56,190 74,985 67,975 69,409	4.1 11.0 4.9 7.1 5.6 13.0 9.5 6.4 5.8 6.0	30,131 1,805 38,995 19,057 9,897 320 8,321 22,900 21,515 42,298	9.2 19.0 8.9 15.0 11.0 32.0 28.0 12.0 13.0 12.0	5,092 554 3,030 - 1,331 - 2,399 3,460 6,126	30.0 26.0 22.0 0 27.0 0 78.0 56.0 49.0 18.0	
Reynolds Ripley St. Charles St. Clair. Ste. Genevieve St. Francois St. Louis Saline Schuyler Scotland.	122,027 110,277 261,649 189,501 175,988 133,667 261,117 337,392 163,601 240,563 320,822	9.7 8.3 5.8 4.6 5.1 5.3 11.0 3.6 7.7 4.4 2.7	3,687 7,571 30,702 19,107 13,555 8,715 10,796 57,578 13,503 23,969 28,972	7.1 6.9 5.4 6.1 5.1 7.5 6.3 4.6 7.3 5.1 4.1	13,408 38,538 73,322 76,461 39,489 19,720 22,762 162,742 26,744 76,742 117,637	18.0 8.2 6.1 6.5 6.9 8.6 10.0 4.7 12.0 6.4 3.8	1,251 1,808 34,143 8,363 8,119 356 5,065 87,286 6,183 22,262 20,831	30.0 56.0 8.8 15.0 9.0 34.0 20.0 7.2 33.0 12.0 14.0	388 2,683 (D) 76 429 1,650 50 570 1,340	.0 65.0 39.0 (D) 37.0 .0 15.0 58.0 64.0 60.0 .0	
Shannon. Shelby Stoddard. Stone. Sullivan. Taney. Texas. Vernon. Warren. Washington.	119,833 286,291 300,991 108,970 204,639 118,611 106,742 196,606 225,177 101,365	7.1 3.8 2.4 4.0 3.1 6.2 6.0 7.9 6.2 4.8	5,102 33,137 58,911 9,917 23,196 6,366 17,880 39,607 18,355 4,979	7.2 4.5 3.1 10.0 4.8 7.3 5.0 4.5 5.8 6.0	27,280 102,072 250,595 31,296 81,024 17,373 82,623 155,881 52,197 17,829	11.0 5.1 2.7 11.0 6.2 8.5 5.8 4.3 8.6 15.0	530 36,558 57,913 1,050 18,172 285 715 29,178 15,203 2,028	31.0 13.0 9.0 36.0 15.0 56.0 22.0 11.0 20.0 23.0	5 808 6,052 84 194 195 56 924 5 166	87.0 18.0 26.0 49.0 74.0 1.0 21.0 98.0 33.0	
Wayne Webster Worth Wright Farms not on mail list	109,385 113,405 259,381 101,736 90,504	6.1 3.1 15.0 4.3 19.0	7,446 20,427 12,338 19,135 71,862	14.0 4.5 8.2 5.9 25.0	17,955 66,995 26,710 74,610 168,618 Farm producti	9,9 4.8 10.0 6.9 34.0	1,506 5,994 11,384 4,227 94,123	27.0 11.0 18.0 18.0 68.0	439 153 370	.0 40.0 .0 13.0 59.0	
	Gasol	ine	Diese	Diesel fuel		Livestock and poultry purchased		Feed		Hired farm labor	
County	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)		Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	
Adair	827 842 1,049 1,377 834 1,043 1,384 553 599 759 839 807 812 906 286 1,017 1,156 95 1,250 529 1,212 653 955 529 1,212 653 955 529 1,212 653 955 529 1,250 653 955 528 1,250 653 955 529 1,212 653 955 529 1,212 653 955 653 955 653 955 653 955 1,215 653 955 1,21,	4.8 4.4 5.3 3.9 5.1 3.9 5.8 7.4 4.7 5.2 5.1 5.2 5.2 5.8 5.0 5.8 5.0 3.7 5.8 5.0 3.7 5.8 4.4 4.7 5.1 5.2 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.0 5.8 5.8 5.0 5.8 5.0 5.8 5.8 5.0 5.1 5.2 5.8 5.8 5.0 5.1 5.2 5.8 5.8 5.0 5.1 5.2 5.2 5.8 5.8 5.0 5.1 5.2 5.2 5.8 5.8 5.0 5.1 5.2 5.2 5.8 5.8 5.0 5.1 5.2 5.8 5.8 5.0 5.1 5.2 5.8 5.8 5.0 5.1 5.2 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.0 5.8 5.8 5.8 5.0 5.8 5.8 5.8 5.0 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	239 476 897 945 1200 678 683 191 2100 341 4300 1,015 318 383 383 41 397 843 99 596 106 106 854 118 770 2199 387 77 437 73 44 387 37 34 222 73 5500 324 384	8.8 7.9 4.3 5.8 13.0 11.0 11.0 8.1 8.8 9.6 6.4 5.1 13.0 11.0 8.1 8.8 9.6 6.9 13.0 10.0 12.0 4.2 13.0 10.0 12.0 15.0 6.3 10.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 13.0 11.0	$\begin{array}{c} 1,515\\ 3,160\\ 5,354\\ 10,003\\ 6,394\\ 4,076\\ 8,158\\ 3,042\\ 1,728\\ 3,042\\ 1,728\\ 3,002\\ 2,405\\ 626\\ 6,210\\ 4,746\\ 1,980\\ 2,183\\ 4,555\\ 193\\ 3,768\\ 1,866\\ 10,439\\ 4,132\\ 1,773\\ 5,371\\ 5,422\\ 1,313\\ 4,869\\ 10,287\\ 4,867\\ 2,151\\ 2,867\\ 4,476\\ 4,783\\ 1,287\end{array}$	11.0 14.0 5.4 5.0 7.6 10.0 12.0 12.0 16.0 9.7 21.0 16.0 5.1 11.0 11.0 11.0 11.0 11.0 11.0 11.	2,054 3,464 3,511 8,104 8,829 4,660 6,678 4,974 2,312 3,546 2,244 1,261 2,969 4,502 2,894 4,179 5,506 2,399 7,392 6,343 2,391 3,098 4,542 3,520 6,212 1,936 3,094 5,528 3,675 4,344 2,073	6.9 7.2 5.6 4.4 6.8 8.7 3.00 7.9 8.6 12.0 6.6 8.6 12.0 6.6 12.0 6.6 10.0 11.0 7.2 4.5 15.0 6.2 8.7 13.0 6.5 9.4 6.2 13.0 6.7 13.0 6.7 13.0 6.7 9.4 6.2 10.0 8.3 6.7 9.13.0	395 873 1,424 1,148 924 1,157 1,235 346 517 1,023 1,212 1,651 429 780 831 1,171 1,411 1,23 1,781 285 1,479 741 704 675 868 542 973 461 648 353 947 607 617	11.0 12.0 7.6 8.8 5.3 15.0 21.0 21.0 5.8 10.0 9.2 13.0 7.3 2.9 16.0 8.2 17.0 7.0 18.0 8.2 17.0 7.0 18.0 13.0 13.0 13.0 16.0 13.0 12.0 12.0 12.0 12.0 8.2 17.0 7.0 13.0 13.0 13.0 16.0 8.2 17.0 8.2 17.0 13.0 13.0 13.0 13.0 14.0 8.8 12.0 12.0 8.2 12.0 12.0 8.2 17.0 8.2 17.0 8.2 17.0 8.2 17.0 8.2 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	
Daviess De Kalb	1,050 911	4.8 4.7	550 324	7.3 8.5 11.0 12.0	4,476 4,783	13.0 7.3	3,675 4,344	6.7 5.9	947 607	14. 8.	

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

	Farm production expenses									
County	Gasol	ine	Diesel	fuel	Livestock a purch		Fee	d	Hired farm	n labor
	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)
Franklin	1,108	4.2	324	10.0	4,318	7.9	5,678	5.4	1,445	9.8
Gasconade	460	4.7	102	13.0	1,975	21.0	2,788	11.0	319	12.0
Gentry	857	5.3	383	9.5	4,504	15.0	3,701	9.1	638	14.0
Greene	888	4.7	156	11.0	10,925	4.2	8,824	6.8	1,982	11.0
Grundy.	748	6.4	417	8.3	2,227	14.0	3,197	11.0	731	13.0
Harrison.	1,232	4.8	427	9.2	4,504	10.0	4,242	7.7	1,073	6.9
Henry.	1,026	3.8	423	6.5	4,333	12.0	3,849	6.4	927	5.0
Híckory.	318	5.6	72	13.0	1,540	13.0	2,168	12.0	337	10.0
Holt.	978	4.8	735	5.3	2,834	11.0	2,297	8.0	1,200	9.1
Howard.	688	4.2	349	8.5	3,533	8.1	3,514	11.0	830	9.6
Howell Iron Jackson Jasper	818 141 555 1,003	3.8 9.1 5.1 4.6	181 12 380 411	8.7 28.0 11.0 8.2	3,533 4,831 635 3,089 4,090	8.4 20.0 6.6 13.0	8,197 1,053 2,246 5,908	5.1 7.1 13.0 5.0	751 143 1,661 1,630	7.5 25.0 7.9 4.7
Jefferson.	382	20.0	87	13.0	749	21.0	1,437	14.0	390	12.0
Johnson.	1,415	3.7	422	6.5	6,289	9.5	7,640	5.5	876	8.3
Knox.	847	5.6	490	8.6	2,388	12.0	2,552	12.0	695	15.0
Laclede.	613	5.9	140	13.0	3,511	14.0	6,809	9.9	602	18.0
Lafayette.	1,488	3.6	733	5.8	7,282	21.0	10,505	6.1	2,487	7.6
Lawrence.	1,052	4.0	289	9.2	5,601	11.0	8,700	5.8	1,709	14.0
Lewis	990	4.2	458	5.5	3,446	22.0	3,310	5.9	1,045	6.0
Lincoln	1,150	4.1	534	4.9	6,856	5.5	10,079	5.0	2,788	3.4
Linn.	897	4.2	436	7.3	6,765	9.4	4,491	5.6	788	5.6
Livingston	787	5.4	523	7.5	3,714	13.0	3,537	7.7	949	7.1
McDonald	590	13.0	97	9.9	7,166	6.1	18,670	5.8	1,189	6.3
Macon.	1,280	3.3	596	7.0	4,525	8.3	3,730	6.5	759	11.0
Madison.	152	7.7	27	9.3	1,436	19.0	1,526	11.0	137	6.7
Maries.	443	6.1	81	18.0	2,595	13.0	2,709	8.1	331	19.0
Marion.	988	5.4	364	6.2	1,772	10.0	2,679	9.7	817	13.0
Mercer.	612	5.6	313	9.7	2,467	11.0	2,333	7.4	331	8.2
Miller Mississippi Moniteau. Montgomery	583 978 651 1,138 802	3.8 4.4 4.9 4.8 4.5	55 1,187 221 539 416	11.0 3.0 11.0 6.2 7.6	3,939 1,944 4,879 2,737 3,744	7.4 8.3 10.0 9.5 10.0	13,467 837 6,387 4,151 4,235	3.5 19.0 9.9 8.1 9.6	617 3,965 579 654 720	16.0 2.9 13.0 9.2 8.0
Norgan.	527	6.0	132	9.2	4,369	7.3	8,390	8.7	684	9.6
New Madrid.	1,435	3.1	1,916	2.8	826	21.0	333	19.0	5,284	4.8
Newton.	877	6.2	264	22.0	4,723	6.5	12,027	6.5	1,352	6.8
Nodaway.	1,868	3.6	1,029	4.4	8,989	7.6	8,309	5.9	1,723	7.3
Oregon.	482	5.4	56	14.0	2,418	8.5	5,753	7.1	508	23.0
Osage	753	4.4	163	16.0	3,927	7.6	14,983	4.7	894	15.0
Ozark.	477	4.6	88	10.0	3,537	11.0	4,045	7.0	427	11.0
Pemiscot.	1,101	5.5	1,513	5.9	289	.1	73	16.0	4,177	4.3
Perry.	832	5.4	292	7.9	3,598	14.0	4,698	8.2	860	12.0
Pettis.	1,196	3.9	533	6.3	5,561	8.2	6,853	5.8	1,083	6.0
Phelps	350	6.2	45	10.0	2,024	11.0	1,769	12.0	376	9.3
Pike.	1,359	5.4	712	9.3	5,797	4.4	7,652	7.1	2,366	3.6
Platte	665	5.4	385	6.1	1,723	24.0	1,823	9.0	1,021	7.6
Polk	767	3.5	135	12.0	5,793	8.5	9,078	6.0	921	10.0
Polk	219	6.9	12	16.0	1,333	17.0	1,456	5.5	235	17.0
Putnam	656	5.2	213	10.0	3,895	7.9	3,465	6.0	653	14.0
Ralls	810	5.3	483	11.0	2,198	8.0	1,726	7.8	741	17.0
Randolph	722	4.1	295	6.9	2,541	19.0	2,399	6.4	620	18.0
Ray	983	4.4	653	6.2	3,802	4.1	3,889	7.1	1,250	8.8
Reynolds	179	8.1	13	39.0	697	16.0	1,260	9.8	97	30.0
Ripley	348	5.0	119	15.0	816	16.0	1,297	13.0	293	13.0
St. Charles	908	4.4	441	8.3	3,219	9.0	3,525	8.6	1,591	9.2
St. Clair	754	4.9	233	14.0	2,391	9.6	4,135	6.5	476	18.0
Ste. Genevieve	514	5.4	103	8.5	4,051	5.2	6,733	7.8	449	7.2
St. Francois	305	7.0	48	23.0	1,677	12.0	3,115	6.1	628	6.2
St. Louis Saline Schuyler Scotland Scott	388 1,622 438 839 740	9.9 4.8 6.9 5.9 4.9	136 1,091 181 375 827	12.0 6.7 12.0 10.0 5.7	345 6,127 1,507 2,585 1,939	36.0 5.8 11.0 15.0 6.5	355 6,535 1,701 2,279 1,805	15.0 8.7 8.1 9.2 7.0	2,839 1,893 270 522	4.8 7.5 23.0 16.0 3.4
Shannon	245	7.3	30	18.0	870	20.0	1,475	7.4	160	20.0
Shelby	947	4.7	530	6.3	2,967	6.6	3,999	5.3	1,076	9.0
Stoddard	1,562	3.3	1,718	4.3	2,859	9.5	6,994	4.6	3,616	5.5
Stone	335	7.3	61	17.0	2,288	10.0	4,481	8.1	268	16.0
Sullivan	863	4.5	338	8.5	6,404	9.6	5,097	3.1	747	6.6
Taney	265	10.0	27	18.0	943	18.0	1,476	7.9	270	14.0
Texas.	731	4.4	78	11.0	4,574	10.0	5,517	8.1	587	10.0
Vernon.	1,022	3.3	550	7.4	3,695	13.0	3,798	5.1	766	9.4
Warren.	447	7.0	203	8.9	2,014	17.0	2,563	7.3	586	12.0
Washington.	206	10.0	21	24.0	1,361	12.0	1,446	19.0	. 304	32.0
Wayne Webster Worth Wright Ferms not on mell list	328 688 481 760	15.0 5.4 8.3 4.1	114 128 246 105	23.0 12.0 14.0 12.0	977 3,016 2,045 4,116	28.0 11.0 17.0 19.0	1,100 9,127 2,025 12,292	12.0 5.1 10.0 6.8	124 1,067 205 1,298	18.0 8.9 12.0 12.0
Farms not on mail list	1,973	20.0	485	39.0	15,676	37.0	9,021	26.0	840	43.0

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

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ſ	Defin	iition used fo	or 1974 and 19	78	Definitio	on used for 1	959, 1964, and	1969	Operations excl	ided by cu 1959 de	rrent definition by	ut not by
	Farm	s	Value of pro (\$1,0		Form	15	Value of pro (\$1,0	oducts sold)00)	l Farms		Value of produ (\$1,000	
	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974
Missouri	121 955	115 711	3 363 122	2 304 081	139 638	121 537	3 367 507	2 305 473	17 683	5 826	4 385	1 392
AdairAndrewAndrewAndrewAtchison AudrainBarryBartonBartonBatesBatesBatesBatesBollingerBollingerBollingerBoone	1 016 1 033 738 1 342 1 801 990 1 512 1 004 981 1 332	1 024 1 071 804 1 379 1 662 989 1 555 947 942 1 343	24 105 32 111 46 308 65 658 36 109 37 396 49 432 23 171 15 234 27 347	16 347 25 359 40 379 49 303 20 862 30 174 36 435 15 455 8 121 19 764	1 075 1 100 745 1 391 1 942 1 037 1 601 1 070 1 073 1 543	1 082 1 117 812 1 429 1 744 1 014 1 601 981 995 1 457	24 120 32 128 46 310 65 667 36 140 37 414 49 452 23 191 15 251 27 390	16 365 25 373 40 381 20 881 30 182 36 448 15 461 8 131 19 786	59 67 7 49 141 47 89 66 92 211	58 46 8 50 82 25 46 34 53 114	14 18 2 9 31 18 20 20 18 43	18 14 2 18 19 8 13 6 10 22
Buchanan Butler Caldwell Camden Cape Girardeou Carroll Carter Cass Cass	915 9092 964 1402 547 1468 159 232 1718 951	944 1 205 1 049 1 419 485 1 484 1 202 196 1 721 948	25.099 31 136 27 757 31 570 11 196 33 724 55 152 2 240 38 594 13 615	23 308 21 990 17 346 23 777 5 964 21 375 39 570 1 331 30 070 7 997	999 1 194 1 022 1 552 607 1 589 1 193 263 1 924 1 018	1 020 1 289 1 088 1 482 510 1 553 1 243 204 1 837 985	25 121 31 156 27 772 31 602 11 209 33 752 55 163 2 246 38 639 13 631	23 321 22 008 17 358 23 791 5 970 21 394 39 579 1 333 30 091 8 010	84 102 58 150 60 121 34 31 206 67	76 84 39 63 25 69 41 8 116 37	23 20 15 32 13 28 11 6 45 16	13 18 12 14 6 19 9 2 21 13
Chariton Christian Clark Clay Clinton Cobe Cooper Crowford Dade Dada	1 328 1 398 793 844 1 032 1 040 720 990 1 165	1 410 1 307 816 711 871 974 1 098 665 975 1 059	63 802 22 839 29 394 21 260 29 888 15 187 36 490 9 443 22 348 21 722	46 168 12 482 21 030 16 271 22 975 9 498 26 187 5 750 13 574 11 277	1 383 1 556 823 822 914 1 135 1 095 828 1 050 1 273	1 445 1 380 849 788 932 1 029 1 149 709 1 005 1 117	63 815 22 880 29 407 21 293 29 906 15 213 36 502 9 472 22 359 21 743	46 174 12 497 21 037 16 285 22 995 9 510 26 200 5 762 13 580 11 295	55 158 30 129 70 103 55 108 60 108	35 73 33 77 61 55 51 44 30 58	13 41 12 34 18 26 12 29 11 21	6 15 7 14 20 12 13 12 6 18
Daviess De Kalb Douglas Dunklin Franklin Gasconade Greene Grundy	1 057 913 768 1 273 954 1 731 868 838 2 049 786	1 160 924 711 1 182 1 094 1 758 887 864 1 929 866	33 206 30 735 8 655 19 778 56 463 31 384 13 231 29 555 40 040 28 348	24 072 21 747 4 058 9 357 38 757 21 552 7 802 20 655 24 626 20 397	1 091 961 865 1 384 973 1 965 960 866 2 456 828	1 202 985 764 1 244 1 126 1 881 923 888 2 134 899	33 214 30 746 8 669 19 802 56 474 31 435 13 253 29 560 40 149 28 355	24 080 21 761 4 069 9 372 38 766 21 569 7 807 20 660 24 674 20 403	34 48 97 111 19 234 92 28 407 42	42 61 53 62 32 123 36 24 205 33	7 11 14 24 11 51 22 5 109 6	8 14 11 15 9 17 5 5 48 6
Harrison Henry Hickory Holt, Howard Howell Jron Jackson Jasper Jasper Jafferson	1 154 1 185 587 745 760 1 725 306 947 1 390 723	1 254 1 255 553 801 821 1 621 288 999 1 384 743	37 112 32 588 9 598 38 219 25 945 27 745 4 122 24 042 33 968 8 081	26 825 27 955 5 160 32 719 18 341 13 935 3 032 16 057 27 640 6 151	1 219 1 252 635 763 793 1 969 342 1 145 1 562 889	1 288 1 295 581 808 846 1 713 298 1 144 1 485 878	37 130 32 604 9 614 38 222 25 951 27 804 4 131 24 105 34 010 8 122	26 833 27 964 5 168 32 721 18 345 13 960 3 034 16 092 27 662 6 178	65 67 48 18 33 244 36 198 172 166	34 40 28 7 25 92 10 145 101 135	18 16 3 6 59 9 63 43 41	8 9 8 2 4 25 2 35 22 27
Johnson Knox Laclede Lafayette Lawrence Lewis Lincoln Linn Linn Livingston McDonold	1 832 711 1 260 1 635 1 845 829 1 318 1 042 922 1 070	1 946 806 1 250 1 750 1 781 867 1 362 1 141 970 898	44 576 28 006 23 634 65 708 38 227 30 021 51 829 39 887 32 527 39 997	31 059 22 204 14 280 51 536 24 856 22 890 39 556 25 724 22 724 19 709	1 982 738 1 420 1 758 2 023 886 1 441 1 094 965 1 186	2 020 822 1 307 1 812 1 874 894 1 429 1 170 1 003 964	44 610 28 010 23 671 65 736 38 274 30 039 51 853 39 897 32 539 40 025	31 073 22 207 14 291 51 552 24 879 22 879 39 573 25 737 22 736 19 722	150 27 160 123 178 57 123 52 43 116	74 16 57 62 93 27 67 29 33 66	34 5 37 29 47 18 24 10 12 29	14 3 11 16 23 7 17 13 12 13
Macon Madison Marion Mercer Miler Mississippi Monroe Manroe Montgomery	1 311 431 865 821 696 1 099 421 1 010 1 050 985	1 412 394 753 908 766 1 049 419 1 051 1 122 1 052	36 012 5 922 12 621 27 306 20 500 32 186 50 472 24 357 36 278 33 445	25 267 3 270 5 986 23 034 14 699 15 913 34 809 16 144 27 415 25 738	1 413 483 942 852 718 1 190 422 1 076 1 097 1 052	1 469 418 794 947 796 1 109 424 1 086 1 159 1 110	36 032 5 934 12' 638 27 317 20 507 32 208 50 473 24 373 36 288 33 463	25 284 3 276 5 996 23 040 14 710 15 927 34 810 16 151 27 424 25 755	102 52 77 31 22 91 1 66 47 67	57 24 41 39 30 60 5 35 35 37 58	20 12 18 11 7 22 (Z) 16 10 18	17 6 10 6 11 14 14 7 9
Morgan New Madrid Newton Nodaway Organ Osage Ozark Pemiscot Perry Petris	892 714 1 715 1 564 992 1 163 860 620 1 055 1 380	889 741 1 540 1 722 850 1 130 726 656 1 094 1 382	26 478 60 389 35 612 68 702 17 494 38 632 14 776 50 239 27 275 45 410	20 137 54 883 20 296 49 110 9 473 19 888 6 243 31 688 18 960 30 621	968 724 1 946 1 609 1 054 1 228 941 637 1 126 1 491	931 761 1 650 1 760 881 1 172 765 680 1 150 1 442	26 492 60 392 35 676 68 715 17 508 38 649 14 791 50 249 27 296 45 439	20 148 54 890 20 323 49 124 9 479 6 249 31 697 18 972 30 638	76 10 231 45 62 65 81 17 71 111	42 20 110 38 31 42 39 24 56 60	14 3 64 13 14 17 14 10 20 29	11 7 27 14 6 11 6 9 12 17
Phelps Pike Platte Polk Putnam Ralls Randolph Ray Reynolds	737 1 180 897 1 644 540 743 754 876 876 1 227 384	721 1 220 903 1 488 550 818 815 900 1 268 311	9 164 49 564 23 653 34 761 7 797 23 640 27 605 21 136 37 019 4 157	5 015 31 768 20 267 19 178 3 506 14 218 19 532 14 112 26 731 1 798	889 1 252 981 1 775 633 790 798 958 1 334 435	790 1 280 963 1 567 575 841 849 955 1 323 340	9 196 49 585 23 673 34 795 7 824 23 653 27 612 21 154 37 038 4 166	5 024 31 786 20 286 19 202 3 512 14 225 19 540 14 128 26 747 1 807	152 72 84 131 93 47 44 82 107 51	69 60 60 79 25 23 34 55 55 29	32 21 20 34 27 13 7 7 18 20 10	9 18 19 24 6 7 8 16 16 9

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

	Definition used for 1974 and 1978				Definition used for 1959, 1964, and 1969				Operations excluded by current definition but not by 1959 definition			
	Forms		Value of prod (\$1,000		Farms Value of products so (\$1,000)			Farms		Value of products sold (\$1,000)		
	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974
Ripley	611 1 070 881 688 666 496 1 299 567 690 733	577 1 110 877 724 616 565 1 364 580 721 795	8 238 33 695 19 406 21 319 12 312 17 074 61 856 15 517 26 396 34 409	5 675 27 602 14 395 13 894 5 338 11 241 46 454 8 805 18 146 28 939	673 1 173 953 741 773 632 1 355 589 713 779	613 1 196 917 750 667 650 1 416 598 750 813	8 253 33 721 19 426 21 332 12 341 17 107 61 874 15 528 26 402 34 419	5 682 27 624 14 405 13 898 5 349 11 262 46 458 8 810 18 155 28 945	62 103 72 53 107 136 56 22 23 46	36 86 40 26 51 85 52 18 29 18	15 26 20 13 28 33 18 10 6 10	7 22 10 4 11 21 4 5 9 6
Shannon	507 806 1 441 847 940 607 1 624 1 402 678 483 475 1 550 401 1 452	429 869 529 802 1 019 590 1 482 1 458 702 420 442 1 469 1 469 1 469	6 485 36 105 66 867 14 906 36 241 6 574 26 346 34 466 17 318 5 359 6 281 31 057 13 040 30 361	3 277 29 131 59 374 8 122 23 513 4 090 11 346 24 140 14 675 3 438 3 535 17 837 9 507 16 394	578 827 1 511 923 969 680 1 813 1 493 753 545 550 1 739 414 1 612	463 891 582 849 1 046 639 1 559 1 559 1 559 1 550 735 453 469 1 542 431 1 448	6 497 36 114 66 888 14 921 36 249 6 587 26 389 34 485 17 341 5 373 6 293 31 093 13 044 30 396	3 287 29 138 59 389 8 134 23 522 4 102 11 365 24 164 14 684 3 445 3 539 17 848 9 512 16 411	71 21 70 29 73 189 91 75 62 75 189 13 160	34 22 53 47 27 49 77 33 33 27 73 17 61	12 9 21 14 8 13 43 19 23 14 12 36 4 35	10 7 15 12 9 19 24 9 7 4 11 5 17
Farms not on mail list	6 992	(NA)	52 341	(NA)	14 808	(NA)	54 356	(NA)	7 816	(NA)	2 015	(NA)

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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 shortcomings 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 ¹	Published	Net percent missed	Adjusted	adjusted 1974 to 1978
United States ²	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. \$2,500 to \$4,999. Less than \$2,500.	223,268 364,010 306,483 309,250 330,464 331,329 610,367	152,850 324,417 321,733 309,876 296,043 289,511 616,272	-2.0 1.1 2.0 5.8 8.1 11.4 25.9	149,471 327,834 327,438 326,852 322,002 326,432 842,387	+49.4 +11.0 -6.4 -5.4 +2.6 +1.5 -27.5
Northeast Farms 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 \$19,999.	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 Farms with sales of	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
South Farms 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 ² 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 ³	30,157	23,269	17.8	28,548	+5.6
Farms with sales of \$2,500 or more	18,844	16,667	5.2	17,517	+7.6
Farms with sales of less than \$2,500	11,313	6,602	39.6	11,031	+2.6
Middle Atlantic	119,228	104,262	16.2	124,182	-4.0
Farms with sales of \$2,500 or more	86,047	75,458	5.7	80,092	+7.4
Farms with sales of less than \$2,500	33,181	28,804	34.6	44,090	-24.7
New York	49,323	43,682	14.2	50,847	-3.0
Farms with sales of \$2,500 or more	35,095	32,230	4.3	33,678	+4.2
Farms with sales of less than \$2,500	14,228	11,452	33.3	17,169	-17.1
New Jersey	9,932	7,409	14.5	8,760	+13.4
Farms with sales of \$2,500 or more	6,742	5,530	4.5	5,791	+16.4
Farms with sales of less than \$2,500	3,190	1,879	36.7	2,969	+7.4
Pennsylvania	59,973	53,171	18.3	64,575	-7.1
Farms with sales of \$2,500 or more	44,210	37,698	7.2	40,623	+8.8
Farms with sales of less than \$2,500	15,763	15,473	35.4	23,952	-34.2
East North Central	452,213	444,695	7.1	486,098	-7.0
Farms with sales of \$2,500 or more	366,051	360,619	2.9	371,995	-1.6
Farms with sales of less than \$2,500	86,162	84,076	24.1	114,103	-24.5
Ohio	95,821	92,158	4.9	96,899	-1.1
Farms with sales of \$2,500 or more	73,841	70,338	2.1	71,847	+2.8
Farms with sales of less than \$2,500	21,980	21,820	12.9	25,052	-12.3
Indiana	88,458	87,915	7.2	95,341	-7.2
Farms with sales of \$2,500 or more	71,681	70,986	3.6	73,637	-2.7
Farms with sales of less than \$2,500	16,777	16,929	22.0	21,704	-22.7
Illinois	109,770	111,049	9.1	126,295	-13.1
Farms with sales of \$2,500 or more	96,389	97,738	3.8	101,599	-5.1
Farms with sales of less than \$2,500	13,381	13,311	46.1	24,696	-45.8

See footnotes at end of table.

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

		Democrat change		
Farms, 1978 ¹	Published	Net percent missed	Adjusted	Percent change, adjusted 1974 to 1978
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
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
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
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
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
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
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
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
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
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
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
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
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
20,619 9,603 11,016	16,909 6,122 10,787	33.0 11.7 44.0	26,195 6,933	-21.3 +38.5 -42.8
89,477 64,897 24,580	91,280 . 62,518 28,762	, 14.1 9.2 22.1	105,774 68,852	-15.4 -5.7 -33.4
33,450 18,979 14,471	29, 275 17, 534 11, 741	22.8 .8 53.7	43,034 17,675	-22.3 +7.4 -42.9
58,682 38,906 19,776	54,911 35,874 19,037	13.2 8.1 21.0	63,133 39,036	-7.1
44,165 28,209 15,956	32,466 20,961 11,505	22.6	42,727 23,161	-17.9 +3.4 +21.8
318,640 211,915 106,725	306,010 171,372	14.8 7.8	360,164 185,880	-18.5 -11.5 +14.0
110,002 83,433	102,053 67,662	10.5 6.3	113,897 72,211	-38.8 -3.4 +15.5
96,792 63,407	93,659 48,320	18.8 11.2	115,683 54,414	-36.3 -15.3 +16.3
	68, 158 47, 767 20, 391 90,006 76,373 13,633 575, 106 508,033 67,073 102,984 87,753 15,231 126,379 117,704 8,675 121,826 97,848 23,978 41,172 38,914 2,258 39,667 36,927 2,740 65,991 61,507 4,484 77,087 67,380 9,707 325,678 216,297 109,381 22,600 17,287 5,313 56,685 38,416 18,269 20,619 9,603 11,016 89,477 64,897 24,580 33,450 18,979 14,471 58,692	68, 158 $64, 094$ $47, 767$ $46, 670$ $20, 391$ $17, 424$ $90, 006$ $89, 479$ $76, 373$ $74, 887$ $13, 633$ $14, 592$ $575, 106$ $572, 672$ $508, 033$ $497, 726$ $67, 073$ $74, 946$ $102, 984$ $98, 537$ $87, 753$ $85, 926$ $15, 231$ $12, 611$ $126, 379$ $126, 104$ $117, 704$ $117, 142$ $8, 675$ $8, 962$ $121, 826$ $115, 711$ $97, 848$ $82, 421$ $23, 978$ $33, 290$ $41, 172$ $42, 710$ $38, 914$ $40, 681$ $2, 258$ $2, 029$ $39, 667$ $42, 825$ $36, 927$ $39, 849$ $2, 740$ $2, 976$ $65, 991$ $67, 597$ $61, 507$ $62, 594$ $4, 484$ $5, 003$ $7, 7087$ $79, 188$ </td <td>68, 158 64, 094 9.9 47, 767 46, 670 6.0 20, 391 17, 424 19.2 90,006 89, 479 5.3 76, 373 74, 887 .5 13, 633 14, 592 30.8 575, 106 572, 672 5.6 508, 033 497, 726 3.2 67, 073 74, 946 21.8 102, 984 98, 537 9.0 8, 775 8, 5926 5.5 15, 231 12, 611 28.7 126, 6379 126, 104 4.4 117, 704 117, 142 3.2 6, 675 8, 962 26.0 121, 826 15, 711 9.6 97, 948 33, 290 21.6 41, 172 42, 710 4.4 38, 914 40, 681 3.2 2, 740 2, 976 -1.8 65, 991 67, 597 .7 61, 307 62, 594 .0 14, 644 5,003<td>66, 155 64, 094 9.9 71, 213 $47, 767$ $46, 670$ 6.0 $49, 669$ 20, 391 $17, 624$ 19.2 21, 564 90, 006 $89, 479$ 5.3 $96, 130$ 76, 373 74, 687 .5 75, 263 313, 633 14, 522 30.8 21, 087 90, 006 $572, 672$ 5.6 610, 235 506, 033 $497, 726$ 3.2 311, 996 90, 773 74, 946 21.8 992 102, 984 99, 537 9.0 108, 614 973 74, 946 21.8 77, 667 112, 791 126, 6114 4.4 133, 125 117, 704 117, 124 3.2 121, 914 98, 920 21.6 42, 626 42, 626 23, 978 33, 2900 21.6 42, 626 39, 667 42, 825 1.5 43, 420 36, 527 39, 849 1.6 40, 4977 2, 700 4.4</td></td>	68, 158 64, 094 9.9 47, 767 46, 670 6.0 20, 391 17, 424 19.2 90,006 89, 479 5.3 76, 373 74, 887 .5 13, 633 14, 592 30.8 575, 106 572, 672 5.6 508, 033 497, 726 3.2 67, 073 74, 946 21.8 102, 984 98, 537 9.0 8, 775 8, 5926 5.5 15, 231 12, 611 28.7 126, 6379 126, 104 4.4 117, 704 117, 142 3.2 6, 675 8, 962 26.0 121, 826 15, 711 9.6 97, 948 33, 290 21.6 41, 172 42, 710 4.4 38, 914 40, 681 3.2 2, 740 2, 976 -1.8 65, 991 67, 597 .7 61, 307 62, 594 .0 14, 644 5,003 <td>66, 155 64, 094 9.9 71, 213 $47, 767$ $46, 670$ 6.0 $49, 669$ 20, 391 $17, 624$ 19.2 21, 564 90, 006 $89, 479$ 5.3 $96, 130$ 76, 373 74, 687 .5 75, 263 313, 633 14, 522 30.8 21, 087 90, 006 $572, 672$ 5.6 610, 235 506, 033 $497, 726$ 3.2 311, 996 90, 773 74, 946 21.8 992 102, 984 99, 537 9.0 108, 614 973 74, 946 21.8 77, 667 112, 791 126, 6114 4.4 133, 125 117, 704 117, 124 3.2 121, 914 98, 920 21.6 42, 626 42, 626 23, 978 33, 2900 21.6 42, 626 39, 667 42, 825 1.5 43, 420 36, 527 39, 849 1.6 40, 4977 2, 700 4.4</td>	66, 155 64, 094 9.9 71, 213 $47, 767$ $46, 670$ 6.0 $49, 669$ 20, 391 $17, 624$ 19.2 21, 564 90, 006 $89, 479$ 5.3 $96, 130$ 76, 373 74, 687 .5 75, 263 313, 633 14, 522 30.8 21, 087 90, 006 $572, 672$ 5.6 610, 235 506, 033 $497, 726$ 3.2 311, 996 90, 773 74, 946 21.8 992 102, 984 99, 537 9.0 108, 614 973 74, 946 21.8 77, 667 112, 791 126, 6114 4.4 133, 125 117, 704 117, 124 3.2 121, 914 98, 920 21.6 42, 626 42, 626 23, 978 33, 2900 21.6 42, 626 39, 667 42, 825 1.5 43, 420 36, 527 39, 849 1.6 40, 4977 2, 700 4.4

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

			Farms, 1974		Percent change,
	Farms, 1978 ¹	Published	Net percent missed	Adjusted	adjusted 1974 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 ³	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 ²	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

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

.

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

Γ			Farms, 1974		Persont change
	Farms, 1978 ¹	Published	Net percent missed	Adjusted	Percent change, adjusted 1974 to 1978
UNITED STATES ²					
Farms	2,475,171	2,310,702	10.7	2,622,416	-5.6
Farms by size:					
1 to 9 acres 10 to 49 acres	213,110 474,535	126,604 378,631	26.1 22.9	174,773 494,024	+21.9 -3.9
50 to 179 acres	813,944	827, 506	11.0	936,797	-13.1
180 to 499 acres 500 acres or more	596,268 377,314	615,913 362,048	3.9 1.5	646,957 369,865	-7.8 +2.0
Tenure of operator:					
Full owner	1,450,414	1,422,367	13.0	1,650,942	-12.1
Part owner Tenant	712,844 311,913	627,648 260,687	5.2 12.6	667,402 304,072	+6.8 +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 61,017	19,416	31.2	28,403	-1.1
180 to 499 acres	38, 288	54,901 37,864	17.1 6.0	66,655 40,542	-8.5
500 acres or more	8,448	7,661	1.5	7,829	+7.9
Tenure of operator: Full owner	02.000	~~~~~			
Part owner	93,880 43,680	83,389 36,112	19.5 4.9	103,110 37,797	-9.0 +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	59 169	26.065	22.4		
10 to 49 acres	58,168 138,016	36,065 108,756	30.8 18.5	52,227 133,716	+11.4 +3.2
50 to 179 acres	324,583	350,343	6.8	376,663	-13.8
180 to 499 acres	321,482 185,070	345,610 176,593	2.5	355,187 178,560	-9.5 +3.6
Tenure of operator:		,			+9.0
Full owner	542,504	568,866	7.5	620,166	-12.5
Part owner Tenant	334,287	313, 364	4.0	329,173	+1.6
	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: 1 to 9 acres	05 711	55 (50		:	
10 to 49 acres	95,711 232,908	55,659 194,050	31.1 24.2	81,428	+17.5
50 to 179 acres	370,928	369,648	4.0	258,033 433,227	-9.7 -14.4
180 to 499 acres 500 acres or more	197,023	196,395	7.8	214,701	-8.2
	119,500	114,347	. 3.8	119,811	3
Tenure of operator: Full owner	(22.455	(1 1 1 1			
Part owner	633,455 264,029	623,219 214,061	17.4 7.5	757,206	-16.3
Tenant	118,586	92,819	20.9	232,239 117,755	+13.7 +.7
WEST ²				e E	•
Farms	282,397	235,705	9.5	266,133	+6.1
Farms by size:					
1 to 9 acres	45,697	27,191	12.7	31,817	+43.6
10 to 49 acres	75,513	56,409	22.0	73,872	+43.8
180 to 499 acres	57,416 39,475	52,614 36,044	10.8 8	60,252	-4.7
500 acres or more	64,296	63,447		36,527 63,665	+8.1 +1.0
Tenure of operator: Full owner				P 	
Part owner	180,575 70,848	146,893 64,111	12.1	170,460	+5.9
Tenant	30,974	24,701	4.1 8.3	68,193 27,480	+3.9 +12.7

 $^1\mathrm{Data}$ 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					Approved: O.M.			
NOTICE Response to this inquiry is required by law (title 13, U.S. Code). By the same	iovees and may be used	4.10.781		Ų.S	DEPARTMENT BUREAU C	OF CO	CENSUS	
only for statistical purposes. Your report CANNOT be used for purposes of taxation, inve The law also provides that copies retained in your files are immune from legal process.	istigation, or regulation.	CEN	Ŷ,	197	1978 CENSUS			
In correspondence pertaining to this report, please refer to the 11-digit Census File Number	(CPN)	8 179	S		OF			
		92.10	E.	AGF	RICULTU	JRE		
		COMPLETE AN	D RETURN 1	120	eau of the Censu 1 East Tenth Str	reat		
		Nota			fersonville, India			
					Sheet before comp ble estimates m	,		
		filing by Feb. 1. sent to the abo	o causes an u ove address.	ndue burden, include you	a time extension in 11-digit Censi Il correspondence	reques is File	t may be Number	
		If you received a port form, enter a Number(s) here	and return extra consult	File ctra				
·		copies with your CENSUS 035	completed reg	port.	037	03B		
(Please correct errors in name, address, and ZIP code.)		USE 039 ONLY	040		041	042		
SECTION 1 ACREAGE IN 1978		durian 10			e for reporting c			
If the acres you operated in 1978 changed during the year, refer to the INFORMATION SHEET, Section 1.	INSTRUCTIO	Do not inc	lude crops g	rown on land	ops in the appro rented to others, ted in sections 2	Use se	ection 8	
Report land owned, rented, or used by you, your spouse, or by the partnership, corporation, or organization for which you are reporting. Include ALL LAND,	SECTION 2	ere any of the FOI	·····					
REGARDLESS OF LOCATION OR USE - cropland, pastureland, rangeland, woodland, idle land, house lots, etc. None Number of ac			Acres			т	cres	
1. All land owned		None		d Quan	tity harvested		gated	
2. All land rented or leased FROM OTHERS, including land worked by you on shares, used rent free, in exchange for services, payment	1. Field corn for seed (Report a	uantity on	007	↓	OR	+}		
of taxes, etc. include leased Federal, State, and railroad land. (DC.NOT include leased Federal, State, and railroad land.	a shelled-weigh 2. Field corn for :	ht basis) 🗍 silape	070	071	Cwt. Tons,	072		
permit.) Also complete item 5 below.		·····	073	074	green	075		
3. All land rented or leased TO OTHERS, including land worked on shares by others and land subleased. Also complete item 6 below.			076	074	Bu.	078		
ACRES IN THIS PLACE - ADD acres owned (item 1) and	1		079	080	Bu.	081		
acres rented (item 2), then SUBTRACT acres rented TO OTHERS (item 3), and enter the result in this space.	5. Barley for grain	n 💭	082	083	Bu. Bu.	084		
For this census report these are the "ACRES IN THIS PLACE."	6. Sorghums for gr seed (include r	rain or nilo)		{+	OR Lbs.	}		
	7. Sorghums for s		085	086	-	087		
5. If you rented land FROM OTHERS (item 2) enter the following information for each landlo Name of landlord Mailing address (<i>include 21P code</i>) Number of act	achus-mudana	crosses)			Tons, green	-		
047		eans (088	089	Bu.	090		
048	9. Cotton		094	095	Bales	096		
049	10. Tobacco – all 11. Irish potatoes.		097 1	/10	Lbs.	099	/10	
List additional landlords on a separate sheat of paper.	12. Sweetpotatoes		100	/10 /10	Cwt. Bu.	102	1 /10	
6. If you rented land TO OTHERS (item 3), enter the following information for each renter. Name of renter Mailing address (include ZIP code) Number of ac	res SECTION 3	as any DRY HAY,	GRASS SILA	GE, HAYLAG	E, or GREEN CI		<u></u>	
050		r harvested from th nd hay cut from pa	stures.)	•	aorghum-audan	C/08898		
051	1	YES - Comple		2n				
052		e made for both dry		ss sílace, ha	visce, or arean ci	han from	n the	
List additional renters on a separate sheet of paper. a. Of the land you rented or leased to others, None 053	same fields, ra	port the acreage in E, HAYLAGE, and	the appropri	ate items und	ler DRY HAY and	t elso u	nder	
how many acres did you own? Acres	DRY HAY (If two or more	cuttings of dry ha	v wara	<u> </u>	Quantity harve	sted		
7. During 1978, did'you have any Federal or State grazing permits on a per-head basis;	made from the	same acres, report t total tons from a	acres only	Acres harvested	(Report eithe or green wei	r dry aht	Acres Irrigated	
such as Forest Service, Taylor Grazing, 054 Indian Reservations, etc.?	1. Alfalfa and alf	alfa mixtures for ting	•	103		ons, 10	05	
. How many set aside acres did you have None oss		y - oats, wheat, ba		106	107 T		08	
in the Federal Faim Program in 1978? Acres	3. Other tame dry	hay, clover, lespe	deza,	109	110	ons,	11	
9. LOCATION OF AGRICULTURAL ACTIVITY FOR THIS PLACE	• 1 • • • • • • • • • • • • • • • • • • •	ıda grass, Sudan g	11 A.	112	·····	ry ons, 1	14	
a. In what county was the County name State Number of ac largest value of your oss	. GRASS SILAG	E, HAYLAGE, AN				ry		
agricultural products Principal raised or produced?	GREEN CHOP	cuttings of grass						
b. If you also have agricul-	haylaga, or gre same acres, re	aon chop wore mad port acres only on	e from the					
tural operations in any other other county(ies), enter county(ies)		ns from all cutting:		115		rons, 1 green	17	
the county name(s), etc	— .	and fed green (gre		118		Tons, 1	20	

APPENDIX D-Continued

SECTION 4 Was there	a combi	ned total of	20 or m	- EPIIIT	TOTES ine	Indian C	DADEWING	CITCHIC	and MIST	TOFF	0.011		2- 10202		tinalista al		· · · · · · · · · · · · · · · · · · ·
				UIE FRUI I	I I KEES, 100	maing G	RAPEVINE	s, citrus	and NU I	TREE	s un	HIS PLACE	in 1978?	(Do noi	. Include ac	pandoned trees)
		a section 5			1	To	tal acres	Acr	es irrigal	ted							
-			•			Whole a	icres Ten	*******		Tenths							
1. TOTAL ACRES in beari or other groves, vineyar	ing and r ds. and i	nut trees on t	ult of CN this nla	aios, citil Ce	IS	121		122	1								0-4-
								10		/10		Apples			(Report q	wantity	Code
2. From the list at the right requested information for	nt, enter Meach c	name and co roo even if n	de for f of harve	ne mult tr ested beca	ees, grapevin use of low pr	ices, and r	nut trees of nage from t	ail frost e	in 19/8. ic. For	Report	nted	Apricots . Avocados -	See	. 129	harvester from bloc	d in 1977-78 m of 1977)	
trees, estimate the area	covered	by each kind	d of fru	it. If othe	er crops were	interplan	ited with tr	ees, see Inf	ormation	Sheet.		Informatio Cherries	in Sheat	. 135	Grapefrui	it	267
	1	NUM	BER O	F	· · · · · ·		1	Tu	nit of me			Grapes - d	ry weight	171	Oranges		297
Crop name	Code	TREESO	RVINE	ES OF -	Acres in and vin	es of	Quar	ality -	Mark or			Grapes - f Olives - S	60		Tange los Tangerin		303
Grop tasing	Code	Nonbearing	2 E	Bearing	allag	85	harve	charl	Tons	Boxes	Lbs. per	Information Peaches	on Shaet	207	mandari	ins - Specify	309
	<u> </u>	age		age	Whole acres	Tenths			Tons	ě	box	Pears Plums and		231	NUT CR		
			1		2	/10	3	1	2	30	5	fresh wei	ght	. 243	(Report o	quantity in	Code
			1		2	Ť	3	A	-	1 1	5	Prunes - c Other nonc	itrus		Almonda	ý 	821
	<u> </u>				2	i /10	3	3	2] <u>s 🗆 i</u>		Specify .	• • • • • •	, . 261	Filberts	and hazelnuts	327
		1			}	1 /10	-	Ĩ	2] a 🗆	- I				Pecans,	improved wild	
			1		2	/10	3	4	2		5				Walnuts i	dling (English	
<u> </u>			1		2	1	3				5				or Pers Other nu	tian) t trees –	357
	L	L			.l'	/10		1	2]])						*****	363
If more space is needed, u				D11												A	
FOR SAL		ABLES, SWE his place in		KN, MELC	INS, etc., har	vested		SECTION				WBERRIES, In this place		RRIES,	or UTHER	BERRIES harv	ested
005		piete this sec						11.1	007			mplefe this :					
		o section 6						ŀ				to section 6					
								tram it.		:					14. 1 k	and day.	
For Florida, report for a August 31, 1978 harves	Septemb t season	er 1, 1977 thi i: for all	rough	-				From the unit spec	iist delt ified wit	uw, ente th crop i	name,	name and co	ue. Repo	nt quanti	ny harveste	ea in	
other States report for c			F	Aci		Acres in				1	•••••	Acres harve	sted	.		Acres irri	gated
1. Land from which vegeta			1.	Nhole acre		hole acre	es Tenths	Crop	name	Co	ae T	pole acres	Tenths	Quantity	harvested	Whole acres	Tenths
harvested in 1978	• • • • • •	• • • • • • • • •	· · · [~~~~	/10		/10						/10	1		2	/10
2. From the list below, en If more than one vegeta	iter the c	crop name and	i code i	for each c	rop harvested	in 1978.	<u>.</u>	<u> </u>					/	1		2	1
esch crop. Report crop						acres to	ur :						/10			2	/10
Crop name	e	0	ode	Acres h	arvested	Acres in	rigated	1					/10	1		2	/10
	··				/10		/10	If mare s	pace is i	needed,	U39 5	parate sheet	of paper		•	h	
			†		/10		/10	Crop nar			181	Code	ka ji Sh	1.1.1.1	p name		Code
				~					rries and les, tam			ounds) 509 512		Ras	oberries (p	pounds)	533 536
					/10		/10	Blueberr	ies, wild ies (100-	(pound	s)	515		All	other berri	es (pounds) -	
					/10		/10								Ga		539
L					/10		/10	SECTION	18 11 008 1	ield see	ds su	R GROPS IN Par crops, of	other cro	ion ans os not n	place in 13 reviousiv r	978 - rice, pea eported?	muis,
					/10		i /10				1 E 21	mplete this :	的复数形式				
If more space is needed, o			peper.		•		مذہب ہ			_	1.1.1	to section §	a ay 800 ya 1				
Crop name Asparagus		Crop name Cucumbers a	nd pick		 Crop nam Peppers, 		Code			-							
Beans, snap (bush and pole)		Eggplant		41	5 Peppers,	hot	445	From the	list bet	ow,ente th ctoo	el Ctop	name and co	de, Ropi	ort quant	ity harvest	ed in	
Beets	383	Honeydew m	eions .	42	3 Radishes		451			Andread and a second							
Cabbage	391	Lettuce and Lima beans,	green	42	9 Squash .		459	C	rop name		Co	le Acres	harvester	1 Quan	itity harves	ted Acres in	rigated
Persian melons	395	Mustard gree Onions, dry		43	3 Tomatoes	\$	463	1						1		1	
Carrots	397	Onions, gree Okra	n	43	\$ Turnips		465							1		2	
Cautiflower	401 407	Peas, green, English (e)	includ	ing	Watermet	ons retables	473	I						-+			
Cowpeas (blackeyed and		green cowp	eas) .	44	1. Specify		475	1			1			1		2	
other green cowpeas)								1			1			-1.		2	
SECTION 6 Were any	NURSE	ky and GREE	and of	SE PRODU	UCTS, sod, bi tables under	uids, flov Plase or	vers, other	I			ļ						
protection	n, or 削	SHROOMS gr	own FO	R SALE o	in this place	in 1978?	******	I						1		2	
0.045		plete this an				an da sa Ang ang ang ang ang ang ang ang ang ang a					+	-+		1		2	
		a section 7		. F		irrigated		I			1						
1 -				None	Square feet	478	s Tenths	1			1			1		2	•
1. Nursery and greenhouse	product	ts irrigated ir	1978				/10	If more a	pace is	needed	use a	iparete sheel	of paper	,		the second	
2. From the list below, en	ter the p	product name	and con	de for eacl	h product grou	NA.		Crop na					de Crop				Code
		Square feet	under		in the open 1978		in 1978	Atfalta	seed (pou	unds) .		5	12 Prost	millet (busheis) .		. 665
Product name	Code	glass or o protection i	ther			· · · · · · · · · · · · · · · · · · ·		(100-p	try field bund bag				54 Sta	(100-	pound bags)) or	671
				I whole ac	res Tenths	2	Cents	Beans, ((100-p	ound bag	s)	; •:#***		57	L LOAITE	31S)		. 963
				ł	/10	\$		Buckwhi	at (bush for dry	iels}			75 Rive I	or grain	(bushels)		. 686
				Ľ	/10	·	i	or graz	ed (repo	rt acres	only)		11 Saffie	wer (DOL	inds) for dry fora		692
				1	/10	2 \$	i	Emmer a	nd spett	(bushe	uəiri iş İş)		95 or h	ay (tons.	, dry weigh	t)	698
If more space is needed, u	188 8008	rate sheet of	pap a r.	۰				Flaxsee	d (bushe	13	* * * *	🖬 🖬 🖬	92 Sorge 95 Sugar	beets fo	ged or graz or sugar (to	ed Ns)	, 701
Product name		Code	Produ	ict name			Code	Grains,	mixed (b	ushels)	• • ÷ ×.	6	14 Sugar 29 See	cane for Informat	sugar (ton)	s)	. 722
Bedding plants (include ver Bulbs		482 -	Fella Mushi	ge and flo rooms	wering plants		491	Lespede	28 3660	(pounds	1	6	18 Sugar	cane for	seed (tons	}********	. 725
Cut flowers and cut florist Nursery products - enviro	t greens	485	Sod h	arvested	Nower seeds		497	Peanuts	for nuts	(pounds	\$]	6	56 Timo	thy seed	(pounds).		734
I lining-out stock, fruit and	o nut tre	es,	Green	house veg	etables		503	Peas, dr	y field a (pounds.	nd seed , shelle	d)		9 Other 12 Spe	crops ()	pounds) —		. 773
and vines		485	UGIEF	- specity				I						<u> </u>			

SECTION 9 GROSS VALUE of CROPS SOLD from this place in 1978, BEFORE taxes	SECTION 12 Did you or anyone else have any CATTLE or CALVES on this place in 1978?
and expenses (Refer to the INFORMATION SHEET, Section 5.) Report your best estimate of the value for each of the following groups of crops	012 1 YES - Complete this section
sold from this place in 1978. Include the value of the landlord's and/or contractor's share, estimating if necessary. Include value of Government CCC loans.	DECEMBER 31, 1978 INVENTORY DECEMBER 31, 1978 INVENTORY Number on this place Dec. 31, 1978
	Cents 1 CATTIE AND CALVES of all once 803 Total
corn for grain, grain sorghums, rice, wheat and other 776	(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 best holfers that Beef cows
a. Of the total, how much was None Dollars Cents received in 1978 from 777	b. MILK COWS kept for production of milk or cream for sale or home use - include dry milk cows and Milk
Government CCC loans?	for sale or home use - include dry milk cows and Milk milk helfers that had celved
2. Cotton and cottonseed, including Gevernment CCC loans	c. HEIFERS AND HEIFER CALVES - Exclude heifer heifers that had calved
a. Of the total, how much was None Dollars Cents	d. STEERS, STEER CALVES, BULLS AND BULL CALVES
received in 1978 from Government CCC loans?	
3. Tobacco	CATTLE AND CALVES SOLD FROM THIS PLACE IN 1978 Number sold Gross value of sales In 1978 Dellars Content
4. Field seeds, grass seeds, hay, forage, and silage	contract or custom basis. Also report
5. Vegetables, sweet corn, and melons - DO NOT include Irlish polatoes or sweetpotatoes, report them in item 6 below	es sold, cattle moved from this place to a faediot for further feeding, 808 809
 Fruits, nuts, berries - apples, peaches, grapes, 	2. Calves weighing less than 500 pounds
citrus, pecans, strawberries, etc	3. Cattle, including catves weighing 500 pounds or more
A this even to be products A the second se	a. Of the total cattle sold, how many
sugar beets, sugarcane, mint	were FATTENED on this place on GRAIN 012 013
SECTION 10 LAND USE IN 1978	and SOLD for SLAUGHTER?
Copy ACRES IN THIS PLACE from section 1, item 4, page 1 Ac	DAIRY PRODUCTS SOLD FROM
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."	A. Gross value of sales of DAIRY PRODUCTS
2 CONDI ANN	from this place in 1978. Aeport goet dairy products in section 15
a. Creptand harvested - include all land from which crops were 787	SECTION 13 Did you or anyone else have any HOGS or PIGS on this place in 1978?
harvested or hay was out, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse products.	933 1 YES - Complete this section
b. Cropland used only for pasture of grazing - include rotation pasture and grazing land that could have been used for crops without additional improvements	2 NO - Go to section 14 NUMBER OF 11 1975 INVENTORY None place Dec. 31, 1978
c. Cropland used for cover crops, legumes, and soil-improvement 789	OECEMBER 31, 1978 INVENTORY I. HOGS and PIGS of all ages (Totel of a and b below)
grasses, but NOT harvested and NOT pastured	a. HOGS and PIGS used or to be used for BREEDING
ter land in orcherds and viewards on which the crop failed. Such acreage is to be reported in them 2s.)	b. OTHER HOGS and PIGS
e. Cropland in cultivated summer fallow	UTTERS FARROWED
1. Crepland idle	2. LITTERS FARROWED on this place between - None Number of litters 8. December 1, 1977 and New 21, 1979 - 919
3. Woodland - include all woodlots	we occusive if 1317 and Rdy 51, 1376
and limber tracts and outover and detoisated land with young Limber growth.	b. June 1, 1978 and November 30, 1978
4. Other pastureland and rangeland - include any pastureland other	Number sold Gross value of sales
then cruptend and woodland pasture	HOGS AND PIGS SOLD Home in 1978 Bottars Cents B20 B21
Include any rend not reported in items 2 intough 4 enove	3. HOGS and PIGS SOLD from this place in 1978 \$
6. TOTAL ACRES - Aud the scres reported in items 2 through 5 (Should be the same as item 1 above.)	4. Of the hogs and pigs sold, how many were sold
SECTION 11 Was any LAND in this place IRRIGATED at any time in 1978?	as FEEDER PIGS for further feeding?
Irrigeted land is all land watered by any artificial or controlled means - sprinklars, furrows or ditches, spreader dikes, stc. include supplemental,	SECTION 14 Did you or anyone else have any SHEEP or LAMBS on this place in 1978?
partial, and proplant irrigation.	2 □ NO → Go to section 15
1 YES - Complete this section 2 NO - Go to section 12	INVENTORY SALES
L. How many acres of each of the following classifications	Number on this Number sold None place Dec. 31, 1978 in 1978
of land were irrigated in 1978? None ringated a. HARVESTED LAND reported in section 10, 799	I. SHEEP and LAMBS of all ages
item 2a - include land from which hay was cut and land in bearing and nonbearing truit and nut crops.	a. EWES 1 year old or older
b. PASTURELAND or RANGELAND reported in	
section 10, items 2b and 4 - include spring flooding if water diverted or spread by dams, spreader dikes,	None Rumber shorn Pounds of woof shorn
canals, dilches, pipes, or other works.	2. SHEEP and LAMBS SHORN
c. ANY OTHER LANDS - Such as land not harvested due to 801	이 방법 방법 영상에서 대한 사람이 있는 것은 것을 알려야 한다. 이 가격을 가지 않는 것을 가지 않는 것을 수 있다. 이 가격을 가지 않는 것을 가지 않는 것을 가지 않는 것을 하는 것을 하는 것을

D-3

Gross value of sales

Cents

Dollars

Non

82

\$

FO	RM :	76-A	(N)	(4-1	0-78)	
----	------	------	-----	------	-------	--

or land in cover crops and soil-improvement grasses....

d. TOTAL LAND IRRIGATED (Total of a, b, and c above.)

b. PASTURELAND or RANGELAND reported in section 10, items 2b and 4 - include spring flooding if water diverted or spread by dans, spreader dikes, canals, ditches, pipes, or other works. c. ANY OTHER LANDS - Such as land not harvested due to complete failure, idle land, land in cultivated summer failow,

What was the gross value of sales of sheep,

lambs, and wool from this place in 1978?

m

SECTION 15 Did you or anyone el LIVESTOCK, or AN	se have any HORSE	S, BEES, FI	SH, OTHER		SECTION 17 Income from MACHINE WORK, CUSTOMWORK, and OTHER AGRICULTURAL					
015 1 YES - Comple		11 13/0:			SERVICES PROVIDED for others in 1978 Total amount received from machine work, customwork, None Dollars Cents					
2 🗌 NO - Go to si	ection 16	·			and other agricultural services PROVIDED FOR OTHERS					
	INVENTORY Number on	Total nu		s value of sales	in 1978 - planting, plowing, spraying, harvesting, etc					
Non	000.01,1570	sold in	D	ollars Cents	s Specify kind of work done					
1. Horses and ponies of all ages	830	831	832 \$	i I t	SECTION 18 During 1978 did you SELL any crops, livestock, or livestock products DIRECTLY to individuals FOR HUMAN CONSUMPTION - roadside					
2. Mules, burros, and donkeys	833	834	835	1	stands, farmers markets, pick your own, etc.?					
	836	837	838		The section Dollars Cents					
3. Mink and their pelts	863		\$	 	2 1. What was the gross value of these direct sales?					
a. Mink females used for breeding										
4. Other livestock or animal specialties in captivity				1	Specity products sold vegetables, eggs, etc					
(Enter name and code from "List A" below.)				4 1	Mark (X) the one item which best describes the type of organization for this place in 1978.					
Name Code		1	2 \$	1	Refer to the INFORMATION SHEET, Section 19.					
	cres under water	fotal quantit	y sold Gros	s value of sales	torship), excluding partnership and corporation					
products (Enter name and code from "List B" below.)	for aquaculture	in 1978		ollars Cents	• PARTNERSHIP operation. Include family partnerships 2 Total number • INCORPORATED UNDER STATE LAW of partners					
Name Code	-	OR	ounds	1	Answer BOTH a and b					
	2	G	allons	1	a. Is this a family held corporation?					
 Fish and other aquaculture products (Enter name and 		_	2	1	b. Are there more than 10 stockholders? $\int s \Box Y es$					
code from "List C" below.)	< 3	OR	ounds	1	•OTHER, such as cooperative, estate or trust, prison					
Name Code	/10	N	umber	1	farm, grazing association, Indian reservation, etc7 Specify					
	List A		·····							
Name Code Nam Colonies of bees 839 Oth	er goats	Code	Name Worms	Code 	1. RESIDENCE - Does the operator (senior partner or 923					
Angora goats 842 Rab	bits and their pelts nchillas and their pe	851	All other live Specity	estock –	person in charge) live on this place? I gres 2 No					
Name Ci	ode Name		List C	Code	1 ☐ White 2 ☐ Negro or Black					
Mohair sold	64 Catfish		872 Other	r fish -	2. RACE of operator (senior partner or person in charge)					
		nd		cify 884 raquaculture ducts –	a Asian or Pacific Islander a Other - specify,					
Specify	70			clfy 888						
SECTION 16 Did you or anyone el		RY such as	CHICKENS,	TURKEYS,	925 925					
DUCKS, etc., on this contract basis.)	s place in 1978? (In	clude poultry			3. AGE of operator (senior partner or person in charge)					
1 🗌 YES - Comple	te this section		INVENTORY Number on this place	Total number sold in 1978						
2 🗖 NO - Go to s	ection 17		Dec. 31, 1978		or person in charge) of Spanish origin or descent					
1. HENS and PULLETS of laying ag	e	🖸 🗌	94	895	(Mexican, Mexican American, Cuban, or other Spanish)? 1 [] Yes z [] No					
2. PULLETS 3 months old or older n	ot yet of laying age		196	897	6. PRINCIPAL OCCUPATION - At which occupation did the operator spend the majority (50 percent or proble the work time in 1072 - proceeding and the second					
3. PULLET CHICKS and PULLETS			196	897	more) of his work time in 1978? For partnerships 928 consider all members of the partnership together 1 [] Farming 2 [] Other					
4. BROILERS, fryers, and other mea	t type chickens,		198	899	7. OFF FARM WORK – How many days did the operator ⁹²⁹ (senior partner or person in charge) work at least					
including capons and roasters			00	901	4 hours per day off this place in 1978? Include work at a nonfarm job, business, or on someone else's farm. 3 □ 50–99 days					
5. TURKEYS a. Turkeys for slaughter (Exclude	breeders.)				(Exclude exchange farm work.)					
b. Turkey HENS kept for breeding			02	903	s <u>□</u> 150-199 days 6 <u>□</u> 200 days or more					
6 OTHER POLL TRY raised in canti	vity - ducks, geese									
pigeons or squab, pheasants, quai name and code from the list below.	i, elc. (Enter poultr .)	y		1	SECTION 21 Was any of the land in this place held under FOREIGN OWNERSHIP in 1978?					
Poultry name	Code		<u> </u>	1	2 🗖 NO					
Poultry name	Code			<u> </u>	3 Don't know Go to section 28 None Acres					
Name Code N	ame	Code 908	Name	Code	Of the total acres in this place, how many were owned by -					
	igeons or squab heasants		All other po		I. Individuals who are NOT citizens of the United States? 2. A foreign held corporation or unincorporated					
7. POULTRY HATCHED on this plac	e in	Nor		Number	association, or a foreign government?					
1978 and placed or sold - chicken turkeys, ducks, etc specify kind	S,	["	916		SECTIONS 22 - 27 Not applicable to this form					
8. Incubator egg capacity on Decemb		····· [' 317		SECTION 28 PERSON COMPLETING THIS REPORT - Please print Name 999 Date					
9. What was the gross value of sales	of poultry	r	s value of sa	les	Area code Number					
and poultry products (eggs, etc.) f place in 1978? Include estimated	value of Non	e Do	ollars	Cents	Telephone					
poultry and poultry products move place by contractors and others.	d from this	918 S			When the data have been tabulated, do you want a summary sheet showing major census results for your county?					

FORM 78-A1-NI (4-10-78)

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

LIME used on this place during 1978?	1978			
022 I YES - Complete this section Acres Include expanditures paid by you and others for production of crops, the section of crops, the section of the section the section of the section o	Expandit	ures	Gations	Storage capacity or
2 NO - Go to section 23 None for thized in 1978.	Doilars	Cents	purchased in 1978	this place (in gellions
1. Acres of scopland fertilized in 1978, other than creptand	966 \$ 969		967	968
2. Acres of pastureland and rangeland fertilized	\$	1		
in 1978 reported in section 10, items 2b and 4	972	1	973	974
3. LIME - tons of lime used and acres on None Tons of lime Acres limed I gallon)	\$ 975		976	977
or gypeum or time for excitation.)	\$ 978			
SECTION 23 Reversing INSECTICIDES, HERBICIDES, FUNDICIDES, REMATICIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1978?	\$ 979			
I VES - Complete this section	\$ 980			
2 NO - Oc to section 24	5			
Include any materials provided by you, your landfords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report 8 . Other - coal, wood, coke, etc.	981 \$	1		
acreage treated for each purpose. SECTION 26 SELECTED PRODUCT for this place in 1978	TION EXPENSE	ES paid by	y you and others	
L. Sprays, dusts, granules, fumigents, etc., (fungicide, herbielde, insecticide, nematicide) to control – Number of acres 936 Include your best estimates of exper- buyers, and others for production of	crops, livestoc	k, and ot	her agricultural	8,
a, insects on hey and other crops	DE expenses co nonfarm activit	nnected w ies, busin	with performing	s. Children a
b. Nematodes in crops	o the farm busir	ness.	Select	ed expenditure:
Diseases in crock and poultry purchased - 1. Livestock and poultry purchased - 1	cattle, calves, rses, chicks,		Name De	liars Cents
239 State			···· □ 5 983	
940 hay, silage, mixed feeds, concentral	tes, etc	анц • • • • • • •	···· 🗆 🔒	
2. Chemicals for defoliation or for growth control of crops or thinning of fruit	s purchaseo tes.			
3. Were any chemicals used for -	s Tenths	Dollars	Cents	
a, insect control on livestock and poulity.	/10 \$			
3. Animal health costs for liveslock an	nd poultry. Incl ines, medicines	ude , elc	986 • • • • • • • • • • • • •	
(Include line for sanitation)	hased		···· 🗆 🔓	
SECTION 24 MACHINERY AND EQUIPMENT on this place on December 31, 1978 (Instacte only equipment used for syntautharel operations in 1977 or 1978.) phosphate and gypsum, Report cust	tom application	costs in	988	l l
• Value of ALL machinery and equipment on this place, December 31, 1978 6. Agricultural chemicals purchased -	insecticides, h	erbicides	989	I
What is the estimated market value of ALL machinery, educoment, and indiverents usually kept on this place Estimated market value The structure of the structu	the second s		000	
and used for the farm of ranch business? Include cars.			of workers	
trucks, tractora, completes, plowa, disks, harrowa, diyers, Dollars i Cents 2. Of the miled workers, including property for equipment, daily equipment paid including millions and built tanks, livestock tenders,		991		
(2) Worked less than 150 days?		992		
SELECTED machinery and equipment on Total number MANY were manuface S. Contract labor - Include expenditure MANY were manuface S. Contract labor - Include expenditure as harvesting of juit, vegetables, b	ee primarily for	tabor, se	993 Irch	
enty if used in 1977 at 1978.) December 31, 1978 years (1974–1978)? contract basis by a contractor, creating (Number)	v leader, a coop	erativa, i	970 🗖 5	
2. Automobiles	or use of equipr	ment and	994	
3. Molottrucks (include pickups)	lo filling, spray cost of cotton g	ing, inning) .	" ∡ □ \$	
A. Wheel tractors other than garden SECTION 27 ESTIMATED MARKET				
950 951 Prease give your dest Commande to S. Grain and bean combines,	ings for the acr	1 85	Estimated current of land and	buildings
self-propelled only		None	996	Cents
6. Com heads for combines	이 같은 바람이 많은 것이 같이 많이	•• Ц • П	\$ 997 \$	
956 957 3. All land rented or leased TO OTHE	영상 이 것 같아요.	91. ve TTS	998 \$	
Cotton pickets (Exclude aotion strippens) 956 959 Mover conditioners			• ·	
3. momer conditionals				
11. Field forage harvesters, shear				
ber of flywhee) type				

Page 6

FORM 78-A1(1)

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, feediot, 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 Irish 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 scheet of paper) that you quit farming or ranching during 1978 and give the approximate date and the name and address of the present operator, if known.

INFORMATION SHEET 1978 CENSUS OF AGRICULTURE

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 landlord may have supplied equipment, fertilizer, or other materials and/or some supervision of the work.

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 rest of this form?

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.
- b. 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

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

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 frish 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:

oos line to serve	hs, swa≇ cr	tOPS harvested fra logs, or alber crops te shra section	no this place in 1978 - a not previously report	- rice, peanuls, Inf?
	- Go re s			
From the list below enter usin specified with crap of				
Crop name	Code	Acres harvested	Quantity Navested	Acres urigated
alfatte seed	542	20	6,000	,
Reichen sent			\$ 400	'
			,	,
			1	

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
tern 3	Wheat	40	1,230	-
	Soybeans	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 Report the total acreage of each vegetable crop 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 inter planted 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 vear.

Section 9 - GROSS VALUE OF CROPS SOLD

Report the values received during 1978, regardless of the year in which the crops were harvested 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 nurpose 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

Animals 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 Jano, or on rangelano administereu by die 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 Value of sales of animals and pounty 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 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, do 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 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:

- a. 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 feeding.

All Other Livestock - Specify the name of any other livestock, animal specialty, or livestock pro-ducts 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 Proprietor-ship) - 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 distribu-tion 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 constituté a oartnership.

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 Pro-prietorship) - 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 Partner, the Senior rartner 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 For item 6 (Frincipal Occupation) consider all members of the partnership together. Please include as "Farming" worktime at all types of agricultural enterprises, including specialties, such as greenhouses, nursteries, mushrooms, ranching, feed lots, broiler feeding, etc.

For Incorporated and Other Operations (Co-operatives, 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 equip-ment 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 78-A1(A) U.S. DEP	ARTMENT OF COMMERCE	THE	E CENSUS BL	IREAU I	this loquiry is required by law (1 S CONFIDENTIAL. It may be ;	een only b	v sworn Census employe	VOUR RE	PORT TO	
		only	for statistic	al purpo	ses. Your report CANNOT be u at copies retained in your files	sed for pur	poses of taxation, invest	igation, or n	eguiation.	
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AREA	JAMPLE.	Key id	entification d	ata						
Part - IDENTIFICATION	·····	1		I p.,.	II - TYPE OF ORGAN	174710	N - Continued			
na na sana na s	opy from A3 Record Book				Type C - INCORPORATED UN		Name			
1. State 2. County	3. Segment numb	er 4. A3	Line number	3	STATE LAW		Mailing address - Rout	e/Box/Stree	,	
5. Name - First, Middle initial, Last			•	1	1. What is the current name					
. Mailing a. Route/Box/Street					and mailing address of this corporation?	,	Post Office	State	ZIP code	
b. Post Office	r	Staté	ZIP code	1	2. Is this a family-hold corporal	an?	🗋 YES 🛛 🗋) NO		
				- J .	3. Are there more than 10 stock!	1. A. 1997	영상 지수는 아프라 친구가 있는 아프 카프			
7. What is your (the person listed in item 5) telephone number?	8. In what you buy operate of this	in to any part	060		4. Does this corporation have at [] YES - Enter location(s) a		그 김 씨는 김 승규는 것을 가슴을 가 봐.	All the rest from the	on\$?	
9. Do you have a Federal YES - Enter th				1	(1) Location (State and county)		Name			
Employer Identification Number for this farm or NO ranch operation?				1	(2) Location (State and county)		Name			
Port II - TYPE OF ORGANIZATIO	DN		<u> </u>	1	5. During the past two years,				<u></u>	
Mark (X) type of organization as shown in colum for that type. Complete only one part of this pa	in 8 of A3 Listing Sheet an			1	has this farm or ranch used any name or alldress		Name			
of questionnaite relate only to the specific oper-	ation teported here.			4	other than the current corporation name and mailing	· · · · · · · · · · · · · · · · · · ·	Mailing address - Rout	e/Box/Stree	t	
Type A - INDIVIDUAL OR FAMILY OPERATION (Sole proprietorship)	Name				address?	() NO	Post Office	State	ZIP code	
1 1. For business purposes, [] YES → is this farm or ranch	Mailing address - Routel	Box/Stree	91				1			
operated under any name (NO other than your own?	Post Office	State	ZIP code	1	 Does this farm or ranch employ manager who is primarily in c the farm or ranch operations? 	harge of	. 1 [] YES - Go to	2 🗔 NØ	- SKIP 10	
					7. Who is the hired manager?		item 7		ltem 8	
2. During the past two Jess two years, have you received mail at any address	Name				Person named in part 1, item 5 - SKIP to page 2		Name			
other than the one have fisted?	Mailing address - Route/	Box/Stree	et.		[] Other - Specify and end interview					
3. Does this farm or ranch employ a hired	Post Office	State	ZIP code	1	8. Who is primarily in charge of the farm or ranch operations?	***	Mailing address - Rou	te/Box/Stree	it	
manager who is primarily in charge of the farm or ranch operations?] NO -			Person named in part 1.		Post Office	State	ZIP code	
	item 4		page 2	-	item 5 - SKIP to page 2	>	·		.	
4. Who is the hired manager?	Mailing address - Route/	Box/Stree	o1	17	end interview /	10115				
Person named in part 1, item 5 - SKIP to page 2				- 11 J-	1. What type of organization opi	1	ntrols the operations of I	his farm or I	anch unit?	
Other - Specify and SKIP to page 2	Post Office	State	ZIP code		sps 1 [] Estate		or Local 6 🗍 O	iner – Spech	¥,	
Type B - PARTNERSHIP OPERATIONS (Include family partnerships)	Name				2 📋 Trust		roment	λ	2	
2 1. For business purposes, what name and mailing	Mailing address - Route/	Box/Stre	el		3 🔲 Cooperative	5 [] າະເຜ	ral Government			
addreas is used for this partnership?	Post Office	State	ZIP code	-	2. What is the name and mailing address of		Mailung addrong - Pou	to. Boy (Stro	<u></u>	
	l		<u> </u>	_	this organization?		Mailing address – Rou			
2. How many partners are there?	Partners	8					Post Office	State	ZIP code	
Person named in part 1, item 5 - Do							Name			
[]] Other - Specity (Use "Remarks" if	more space is required.)	. (). 46a. -			 What is the name and mailing address used for this farm or ranch operation? 		Mailing address - Rot	ite/Box/Stre	et	
a. Name	Name									
Mailing address - Route/Box/Street	Mailing address - Re	oute/Box	/Street	-[33			Post Office	State	ZIP code	
			ZIP code	-13	4. During the past two years,	VEC.	Name			
Post Office State ZIP cod	e Post Office	State	LIF CODE		has this farm or ranch used any other name or	NO	Mailing address - Ro	ite/Box/Stre	ėt	
 Does this partnership employ a hired ma primarily in charge of the farm or ranch. 	operations?	S – Go te			matting address?					
5. Who is the bired manager?	2 NU	- SKIP	to item 6	4	5. Does this organization emplo	y a hired	Post Office	State	ZIP code	
Person named in part 1. Item 5 - SKIP to page 2	Name				manager who is primarily in o the farm or ranch operations?		. 1 [] YES - Go to	2 🗂 NO	- SKIP to	
Other Specify and and Interview	Mailing address - Route/	Box/Stre	et		6. Who is the hired manager?		ration of			
6. Which partner is primarily in charge of the farm or ranch operations?	Post Office	State	ZIP code	7	Person named in part 1, item 5 - SKIP to page 2					
Person named in part 1, item 5 SKIP to page 2	L		- 1. (geo.)	1	[] Other - Specify and end interview -		Name	te anna anna		
Other partner - Specify and end intel None - Go to item 7	IN BWY				7. Who is primarily in charge of farm or ranch operations?	the 🌁		10/Roulet-	ot	
7. Who is the eldest partner?	Name				Person named in part 1. item 5 - Go to page 2	1	Mailing address - Rou			
Person named in part 1, item 5 - SKIP to page 2 Other - Specify and end interview >	ل ۲				Other - Specify and end Interview		Post Office	State	ZIP code	
U uner - opecny and end intelview >			نىي خىلىسىن مى	Page 1	<u>i - 1910 - Andrea Stationard - S</u>		****			

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Note: Remainder of form same as A1(S).