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TAKING THE CENSUS

Method of Enumeration

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

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

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

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

Mail List

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

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

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

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

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

Direct Enumeration Area Sample

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

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

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

Report Forms

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

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

Initial Mailing

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

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

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

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

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

Followup Procedures

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

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

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

DATA PROCESSING

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

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

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

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

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

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

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

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

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

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

COMPARABILITY OF DATA

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

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

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

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

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

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

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

MAJOR CHANGES IN DATA COLLECTED

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

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

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

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

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

Foreign ownership of farmland Greater detail on expenses for energy

FOLLOW-ON SURVEYS AND THE CENSUS OF HORTICULTURAL SPECIALTIES

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

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

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

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

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

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

DISCLOSURES

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

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

1974 DATA CORRECTIONS

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

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

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

DEFINITIONS AND EXPLANATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Citrus enumeration—For the 1978 census, reports for selected citrus caretakers in Arizona, Florida, and Texas were obtained by direct enumeration. This special enumeration has been used in recent censuses because of the difficulty in identifying and enumerating absentee grove owners who often do not know the information that is needed to adequately complete the report form. A citrus caretaker is an organization or person caring for or managing citrus groves for others. Each citrus caretaker was enumerated as a farm operator and requested to complete one report form for all groves cared for and to furnish a list of grove owners' names, addresses, and number of acres of citrus. The names on the lists were matched to completed grove owners' reports to eliminate duplication. The caretaker was also requested to inform the grove owner that he had already reported for the citrus under his care and that the grove owner was not to report again. In the 1978 census, 8 caretakers in Arizona reported 250 grove owners having 12,000 acres of citrus; the 100 caretakers in Florida reported 6,600 grove owners having 240,000 acres of citrus; and 27 caretakers in Texas reported 1.500 grove owners having 30,000 acres of citrus.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

"See Text" References

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FARM CLASSIFICATIONS

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

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

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

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

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

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

Full owners, who operate only land they own.

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

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

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

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

The classifications used were:

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

Partnership operation, including family partnership.

Corporation, including family corporation.

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

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

- a. Family held.

 Other than family held.
- b. More than 10 stockholders.10 or less stockholders

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

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

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

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

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

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

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

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

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

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

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

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

UNPUBLISHED DATA

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

Cash grain farms (011)

Field crop farms except cash grain farms (013)

Cotton farms (0131)

Tobacco farms (0132)

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

Vegetable and melon farms (016)

Fruit and tree nut farms (017)

Horticultural specialty farms (018)

General farms, primarily crop (019)

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

Beef cattle farms, except feedlots (0212)

Dairy farms (024)

Poultry and egg farms (025)

Animal specialty farms (027)

General farms, primarily livestock (0291)

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

Farms by Size of Farm: 1978 and 1974

Acreage and Value of Owned and Rented Land: 1978 Farms by Acres of Cropland Harvested: 1978 and 1974

Place of Residence of Operator by Occupation and Off-Farm

Work: 1978

Hired Farm Labor by Number of Hired Workers: 1978

Farms by Expenses for Hired Farm or Contract Labor: 1978

Broilers Sales by Number Sold Per Farm: 1978

Cows and Heifers That Had Calved-Inventory by Number

Per Farm: 1978

Beef Cows Inventory by Number Per Farm: 1978

Milk Cows Inventory by Number Per Farm: 1978

Cattle and Calves Inventory by Number Per Farm: 1978

Cattle and Calves Sales by Number Sold Per Farm: 1978

Fattened Cattle Sales by Number Sold Per Farm: 1978

Hogs and Pigs Inventory by Number Per Farm: 1978

Hogs and Pigs Sales by Number Sold Per Farm: 1978

Feeder Pigs Sales by Number Sold Per Farm: 1978

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

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

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

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

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

NONSAMPLING ERRORS

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

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

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

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

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

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

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

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

CENSUS COVERAGE

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

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

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

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

The coverage evaluation for the 1978 census includes a re-enumeration of a subsample of the direct enumeration segments with matching and verification of differences, identification of operators not included on the mail list in places with 2,500 or more population in 1970 using supplemental questions on the Annual Housing Survey, and verification of the 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 144 segments. The expected number of farms per segment varied by strata from none in residential areas to 12 in intensive farm areas and averaged about 10 farms. Farms enumerated in the direct enumeration sample were matched to the mail list and the data for the unmatched farms were weighted by the reciprocal of the probability of selection for the segment to make State estimates for farm operations not represented on the mail list.

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

Item	Percent of total
Parms	10.0
Land in farms	7.6
Value of agricultural products sold	5.1
Harvested cropland	8.8
Corn for grain or seed acres	4.0
Wheat for grain acres	9.2
Cattle and calves	6.8
Hens and pullets of laying age	2.9
Hogs and pigs	7.8

Mail List Sampling

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

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

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

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

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

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

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

Reliability of Census Estimates

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

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

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

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

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

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

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

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

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

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

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

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

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

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

	All far	m8	Farms with sales of	\$2,500 or more
Item		Standard error		Standard error
<u> </u>	Quantity	(percent)	Quantity	(percent)
Power	70.200	, ,	58,639	0.7
Farms	79,388 34,344,480	1.0	32,224,183	·.7
Harvested croplandfarms.	50,682	.8	42,439	.5
acres	8,703,435	.4	8,493,566	.4
Irrigated landfarms	3,850	2.1	3,492	.5
acres	602,203	.6	593,668	.6 .7
Agricultural products soldfarms	79,388	1.0	58,639	•?1
\$1,000	2,367,696	.4	2,338,753	.4 .5 .6
Crops	32,909 623,094	.6 .6	29,707 618,807	.6
Livestock, poultry, and their productsfarms.	69,398	1.1	52,671	18.
\$1,000	1,744,602	.5	1,719,946	.5
Value of machinery and equipmentfarms	79,133	1.0	59,036	.7
\$1,000	1,785,765	1.1	1,646,498	.8
Average value of land and buildings per farmdollars	222,624	.9	273,970	.8
Corn for grain or seedfarms	929	4.2	753	.9
acres	56,736	1.1	55,093	1.0
bushels Wheat for grainfarms	3,771,366	.9	3,736,779 21,820	.9
acres.	22,913 5,087,520	.6	5,048,773	.6
bushels	125,763,452	.6	125,127,515	.6
Soybeans for beans	3,050	2.3	2,852	2.4
acres	382,272	1.2	377,415	1.2
bushels	5,160,697	2.1	5,119,406	2.1
Cattle and calves inventory	63,631	1.1	48,547	.8
number	5,038,012	.3	4,785,287	.5
Cattle and calves soldfarms.	65,150	1.1	50,754	.8 .7
number \$1,000	4,245,935 1,487,501	.6 .5	4,153,396 1,466,916	.5
Hogs and pigs inventoryfarms.	8,563	4.4	5,513	1.9
number.,	330,016	2.2	294,095	1.8
Hogs and pigs soldfarms	7,602	4.7	5,259	2.3
number \ \$1,000	505,715 42,177	1.6 1.2	473,021 40,327	1.6
Sheep and lambs inventoryfarms	1,719	4.6	1,286	4.4
number	102,341	1.7	91,434	1.4
Sheep and lambs soldfarms	1,396	3.2	1,126	3.7
number	78,645	2.1	73,609	2.2
Hens and pullets of laying age inventoryfarms	9,637	2.8 2.2	5,904 2,893,009	2.3
number Hens and pullets of laying age soldfarms	3,000,428 724	7.6	542	7.1
number.	2,251,389	2.5	2,232,858	2.5
Commercial fertilizer usedfarms	39,142	1.1	33,986	.8
Commercial fertilizer usedacres	7,308,807	.8	7,158,831	.8
Commercial fertilizer purchasedfarms	41,357	1.0	35,647	.7
\$1,000	114,683	.8	112,232	.8
Agricultural chemicals purchased	28,869	2.3 1.2	25,011 32,939	2.5
Themicals used on crops for insect controlfarms	33,703 12,108	1.6	11,287	1.6
acres.	1,726,859	1.7	1,711,892	1.7
Chemicals used on crops for disease controlfarms	2,189	5.6	1,703	5.2
acres	137,237	5.0	131,628	5.1
Gasoline purchasedfarms	68,853	1.2	51,609	.8
1,000 gallons	86,011	1.0	(NA)	(NA)
\$1,000	49,029	1.2 1.0	45,787	1.2
Diesel fuel purchasedfarms 1,000 gallons	38,380 83 498	1.3	33,825 (NA)	(NA)
\$1,000	83,498 36,701	1.3	36,137	1.3
Livestock and poultry purchasedfarms	32,981	1.4	26,324	1.1
\$1,000	689,531	.6	681,587	.6
Feed purchasedfarms	66,810	1.0	50,411	.9
\$1,000	428,491	.9	415,311	.9
Hired farm labor	25,524 80,776	1.1	22,521 77,728	1.0
\$1,000	60,776		1	'_

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	20.0 16.0 9.0 6.0	1,000 farms. 1,500 farms. 2,000 farms. 4,000 farms. 5,000 farms.	2.0 1.0 .5 (NA) (NA) (NA)

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

County Fa	Value dollars 112,438 458,072 142,338 319,798 191,516 349,680 125,537	uildings	11,845		Acres fer	Standard	Insect co		Disease	
im.	112,438 458,072 142,338 319,798 191,516 349,680	error (percent) 5.2 3.5	(\$1,000)	errof		Standard			Acres (pe	
tan	112,438 458,072 142,338 319,798 191,516 349,680	error (percent) 5.2 3.5	(\$1,000)	errof		D. COTTON TO L		Standard		Standar
tan	458,072 142,338 319,798 191,516 349,680	3.5			Acres	error (percent)	Acres	error (percent)	Acres	erro (percent
tan	458,072 142,338 319,798 191,516 349,680	3.5		3.9	33,310	9.8	2,472	13.0	1,032	16.0
an	319,798 191,516 349,680	4.0	38,151	3.7	203,243	3.9	8,612	6.7		(D)
an	191,516 349,680		13,191	6.3	49,475	13.0	7,210	46.0		29.0 (D)
seew	349,680	2.9	41,336	5.4	115,645 117,988	5.6 8.2	40,979 13,109	10.0		(D)
ee		5.8 7.2	24,311 31,713	4.8	173,661	6.3	42,645	7.3		57.0
eew		3.3	22,688	7.5	67,836	5.7	14,844	13.0		24.0
kee	273,362	2.8	68,364	2.8	296,238	2.3	89,700	4.7		12.0
tee	398,814 144,405	6.0 5.6	40,440 11,466	3.5 5.9	182,251 34,138	3.9 10.0	44,864 1,726	8.0 10.0). 16.0
on	146,972	4.7	13,305	5,4	16,734	16.0	4,373	26.0	2.768	36.0
n	146,806	4.5	12,155	8.7	59,830	7.9	3,478	4.9		(D
	419,497	2.2	26,168	4.7	112,256	7.1	54,853	13.0		(D
	191,414	8.1	13,518	8.0	34,702	9.9	4,766	22.0		11.
	156,411	6.2	7,931	6.8	23,445 110,133	16.0 7.6	1,492 62,388	50.0 12.0		93. 8.
	281,504 320,031	7.8 8.1	24,997 23,802	7.2 6.4	136,987	5.5	93,466	6.5		23.
	186,253	2.7	21,651	5.4	80,777	7.3	12,175	30.0		73.
	156,387	5.9	10,082	6.2	21,702	15.0	4,348	33.0		2.
•••••	361,633	3.5	42,460	3.3	208,144	3.4	27,413	11.0	3,166	•
2	147,578	5.6 3.9	15,700 24,275	4.7 5.1	39,335 123,756	11.0	935 13,656	19.0		49. 72.
	280,475 301,316	4.3	18,789	3.5	62,049	6.0	8,098	10.0		44.
	424,261	3.1	53,025	4.0	352,447	3.4	35,525	16.0		33.
	160,241	5.2	24,933	5.1	58,775	8.3	22,872	12.0		24.
	219,102	3.0	41,116	3.2	140,859	5.7	47,520	7.6		42.
•••••	449,950	2.4	49,574	3.9	312,987	2.6	30,821	11.0	6,723	21.
	221,451 239,936	6.0 5.1	16,536 18.041	5.6 6.8	70,256 71,441	8.1	27,220 39,813	18.0	3 301	72.
	344,903	2.7	20,418	5.4	101,745	5.9	18,935	5.9	-	, , ,
	136,416	7.7	11,207	7.1	31,884	9.3	1,099	29.0	271	52.
	141,976	11.0	13,614	6.1	47,122	9.0	9,674	12.0		15.
	319,431	5.4	29,013	5.0	175,940	5.2	110,668	6.4		12.
	271,198 212,384	3.0 4.7	12,639 8,734	6.5 6.3	54,855 40,490	5.0 13.0	20,081 4,169	9.3		27. 44.
	352,470	2.9	44,494	3.7	254,029	2.8	36,927	8.1		58.
	435,350	3.8	43,870	3.9	253,502	3.7	49,618	12.0		22.
	390,648	2.9	35,555	4.7	195,959	4.5	97,809	7.0	694	30.
	126,192 126,554	4.0 4.9	5,003 18,716	7.6 8.9	10,856 52,621	13.0 7.0	178 9,197	18.0 39.0	1,426	17.
	134,139	4.1	22,489	5.0	48,956	8.9	7,352	14.0	437	1.
	219,388	6.5	18,769	6.6	93,016	6.5	24,556	16.0		13
	198,206	5.4	11,130	7.2	36,062	8.1	5,989	12.0		13
	224,262	4.5	20,974	5.6	68,219	8.0	23,321	8.6	1,529	
• • • • • • • • • • • • • • • • • • • •	141,699	5.2	19,898	3.1	56,995	6.6	8,456	18.0		62.
	102,429 336,818	4.1 4.6	9,631 29,198	7.4 4.6	33,573 151,186	8.3 5.5	3,540 26,494	18.0 12.0		28. 75.
	177,609	5.3	6,245	11.0	26,759	13.0	1,526	20.0		47.
	152,869	3.7	18,285	5.4	53,783	6.6	3,331	16.0		75.
	180,920	5.2	7,118	9.5	16,543	9.2	4,220	15.0	436	74.
	175,351 344,075	4.5	22,613	5.4	63,275	8.5	7,069	14.0		29
	206,267	4.4 4.6	24,612 11,067	4.1 8.9	136,489 31,676	13.0	16,739 3,711	9.9 45.0		4.
	140,993	4.9	9,502	5.9	32,945	9.0	7,199	24.0		1 26
• • • • • • • • • • • • • • • • • • • •	237,233	7.1	17,629	7.5	34,377	11.0	11,423	14.0		38
• • • • • • • • • • • • • • • • • •	191,030	7.8	11,232	6.2	32,232	10.0	4,951	25.0		19
• • • • • • • • • • • • • • • • • • • •	427,894	5.5	18,695	5.8	72,214	7.0	11,205	24.0		35
	141,901	3.2 4.7	18,263	5.1	78,146	6.9	11,389	12.0		(
• • • • • • • • • • • • • • • • • • • •	212,848 141,220	5.1	12,711 15,934	7.8 5.5	49,634 43,132	8.8	5,993 9,076	21.0 12.0		27 39
	132,883	4.1	15,051	6.2	45,800	8.2	3,237	22.0	3,645	34
nie	159,621 145,062	3.7 5.2	13,462 15,092	3.7 4.2	27,780	6.2	2,069	14.0		17
a	144,314	4.1	8,389	4.3	37,672 27,481	8.5 12.0	9,685 10	13.0 61.0		29
ls	256,459	3.6	21,369	4.4	79,982	8.1	7,562	27.0	(D)	(
	238,472	6.4	18,204	5.3	49,945	9.0	2,116	19.0	5.743	40
	146,425	11.0	12,020	4.1	34,152	7.7	2,255	22.0	780	15
••••••	132,102	5.8	13,120	8.1	23,335	17.0	4,055	22.0	1,519	7
	171,605 464,801	4.0 2.5	23,285 54,142	5.2 3.7	86,593 264,591	7.3 4.1	21,620 125,368	12.0	1,136 1,742	24
	410,210	3.0	37,990	4.2	196,232	3.3	105,774	4.7	5,027	32
••••••	261,205	9.4	12,752	10.0	21,476	22.0	6,134	29.0	2,056	26
m	269,884 186 640	7.5	22,129	4.7	63,788	11.0	12,097	19.0	1,380	9
on	186,640 317,782	8.2 3.5	8,525 53,700	7.3 4.1	21,511	13.0	2,369	21.0	1,818	90
	450,898	3.0	31,441	4.1	261,117 165,854	3.7 4.0	67,558	8.4	4,171	30
	330,345	3.4	26,583	6.0	129,573	6.9	7,283 7,180	17.0 } 12.0	4	,
on mail list	88,936	18.0	67,690	23.0	83,310	31.0	23,219	45.0	1,923	1 61

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

Standard Repense	3 7.4 9 5.5 2 5.0 4 3.6 5 8.4 5 8.3 3 16.0 9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7
Styleme Styleme Call Styleme C	e error) (percent) 3 7.4 9 5.5 2 5.0 4 3.6 5 8.4 5 8.3 3 16.0 9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7 1 16.0
Alfalfa.	9 5.5 2 5.0 4 3.6 5 8.4 5 8.3 3 16.0 9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7
Beever.	4 3.6 5 8.4 5 8.3 3 16.0 9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7 1 16.0
Beckham	5 8.4 5 8.3 3 16.0 9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7
Bryan. 662 13.0 373 16.0 3.233 12.0 3.130 4.4 99 6.264do. 1.584 3.0 1.748 3.5 10.792 4.9 5.596 4.6 2.79 Canadian. 904 5.7 1.006 5.5 20.875 2.7 7.056 4.2 1.69 Carter 425 6.8 128 18.0 3.514 6.2 2.773 4.1 66 Carter 50.8 5.6 6.8 128 18.0 3.514 6.2 2.773 4.1 66 Carter 50.0 5.5 5.2 2.875 2.7 7.056 4.2 1.69 Carter 50.0 5.5 5.2 2.875 2.7 7.056 4.2 1.69 Carter 50.0 5.5 5.2 2.875 2.7 7.056 4.2 1.69 Carter 50.0 5.5 5.2 2.875 2.7 7.056 4.2 1.69 Carter 50.0 5.5 5.2 2.875 4.6 9.183 4.2 4.787 5.2 81 Cleveland. 50.4 5.8 2.57 4.6 9.183 4.2 4.787 5.2 81 Cleveland. 263 7.3 149 15.0 2.563 10.0 2.004 4.2 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	3 16.0 9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7 1 16.0
Caddo. 1,584 3.0 1,748 3.5 10,792 4.9 5,596 4.6 2,79 Canadian 904 5.7 1,006 5.5 20,875 2.7 7,056 4.2 1,69 Carter 425 6.8 128 18.0 3,534 6.2 2,273 4.1 69 Cherokee 398 4.7 102 8.0 2,974 6.9 5,398 5.6 4,91 Charron 865 4.1 767 3.7 26,654 1.0 14,238 1.0 1,34 Coal 317 6.4 136 13.0 2,563 10.0 2,004 4.2 49 Coal 317 6.4 136 13.0 2,568 11.0 2,285 10.0 33 10.0 4.6 422 7.0 73 Cotton 587 4.6 628 6.2 8,306 5.0 1,843 3.8 64 726 7.2	9 3.5 2 4.8 7 9.3 2 1.1 2 5.7 7 .7 1 16.0
Canadian 904 5.7 1,006 5.5 20,875 2.7 7,056 4.2 1,69	2 4.8 7 9.3 2 1.1 2 5.7 7 .7 1 16.0
Cherokee 398 4.7 102 8.0 2,974 6.9 5,398 5.6 4.9 1 Choctaw 504 5.8 257 4.6 9,183 4.2 4,787 5.2 81 Choctaw 263 7.3 149 15.0 2,563 10.0 2,004 4.2 4,787 Coal 317 6.4 136 13.0 2,563 10.0 2,004 4.2 4,787 Coal 317 6.4 136 13.0 2,563 10.0 2,004 4.2 4,787 Coal 317 6.4 136 13.0 2,563 10.0 2,004 4.2 4,787 Coal 317 6.4 136 13.0 2,563 11.0 2,004 4.2 4,787 Comanche 815 6.7 474 11.0 5,578 8.6 4,226 7.0 73 Comanche 587 4.6 628 6.2 15,405 2.2 6,397 2.8 92 Cortcon 587 4.6 128 6.2 15,405 2.2 6,397 2.8 92 Creek 313 6.1 88 14.0 1,117 5.4 12,288 3.6 4,135 3.6 1,47 Delaware 486 5.8 149 12.0 4,545 6.4 10,206 4.8 6.2 Ellis 656 4.3 375 6.3 5,285 4.5 3,323 4.4 68 Cartied 1,238 4.4 1,439 6.5 1,252 4.5 3,323 4.4 68 Cartied 1,238 4.4 1,439 6.5 1,252 4.5 3,323 4.4 68 Cartied 1,238 4.4 1,439 6.5 1,252 4.2 1,349 3.7 3,63 13.0 9 Crady 958 4.0 774 5.8 9,809 5.7 3,99 9.5 6,283 7.3 3,093 13.0 9 Crady 958 4.0 774 5.8 4,8145 4.1 3,010 5.2 1,27 Creet 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Creet 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Creet 244 6.9 479 9.6 2,098 7.0 786 5.7 1,27 Creet 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Creet 244 6.9 479 9.6 2,098 7.0 786 5.7 1,27 Creet 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Creet 244 6.9 479 9.6 2,098 7.0 786 5.7 1,27 Creet 244 6.9 479 9.6 2,098 7.0 786 5.7 1,27 Creet 244 6.9 479 9.6 2,098 7.0 786 5.7 1,27 Creet 324 6.9 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Nughes 429 5.1 250 11.0 2,349 7.9 2	2 1.1 2 5.7 7 .7 1 16.0
Choctaw S04 S.8 257 4.6 9,183 4.2 4,787 5.2 78.5 7	2 5.7 7 .7 1 16.0
Clemeland 865 4.1 767 3.7 26,654 1.0 14,238 1.0 1,34 Cleveland 263 7.3 149 15,0 2,563 10.0 2,004 4.2 49 Coal 317 6.4 136 13.0 2,688 11.0 2,285 10.0 33 Comanche 815 6.7 474 11.0 5,578 8.6 4,226 7.0 73 Cotton 587 4.6 628 6.2 8,306 5.0 1,843 3.8 64 Crafg 709 6.1 258 6.2 1,305 5.0 1,843 3.8 64 Crafg 709 6.1 258 6.2 1,306 5.0 1,843 3.8 64 Crafg 709 6.1 258 6.2 1,339 8.9 2,222 6.4 22 Custer 918 4.1 1,17 715 5.4	7 .7 1 16.0
Coal 317 6.4 136 13.0 2.658 11.0 2.285 10.0 23 Commanche 815 6.7 474 11.0 5,578 8.6 4,225 7.0 73 Cotton 587 4.6 628 6.2 8,306 5.0 1,843 3.8 64 Craig 709 6.1 258 6.2 15,405 2.2 6,337 2.8 92 Creek 313 6.1 88 14.0 1,399 8.9 2,222 6.4 21 Cuser 918 4.1 1,117 5.4 12,288 3.6 4,135 3.6 1,47 Delaware 486 5.8 149 12.0 4,545 6.4 10,206 4.8 63 Dewey 641 5.0 645 5.4 5,235 8.5 2,691 7.2 65 Ellis 656 4.3 375 6.3 5,285 4.	
Commanche. 815 6.7 474 11.0 5,978 8.6 4,226 7.0 73 Cotton. 587 4.6 628 6.2 8,306 5.0 1,843 3.8 6.4 Craig. 709 6.1 258 6.2 15,405 2.2 6,397 2.8 92 Creek. 313 6.1 88 14.0 1,399 8.9 2,222 6.4 21 Custer. 918 4.1 1,117 5.4 12,288 3.6 4,135 3.6 1,47 Delaware. 486 5.8 149 12.0 4,545 6.4 10,206 4.8 63 Dewy. 641 5.0 645 5.4 5,235 8.5 2,691 7.2 65 Ellis. 656 4.3 375 6.3 5285 4.5 3,323 4.4 48 Garvin. 698 5.7 399 9.5 6.5	
Cotton 587 4.6 628 6.2 8,306 5.0 1,843 3.8 6.2 Craig 709 6.1 258 6.2 15,405 2.2 6,937 2.8 92 Creek 313 6.1 88 14.0 1,399 8.9 2,222 6.4 21 Custer 918 4.1 1,117 5.4 12,288 3.6 4,135 3.6 1,47 Delaware 486 5.8 149 12.0 4,545 6.4 10,206 4.8 63 Dewey 641 5.0 645 5.4 5,235 8.5 2,691 7.2 65 Ellis 656 4.3 3.75 6.3 5,285 4.5 3,923 4.4 48 Garrield 1,238 4.4 1,459 6.5 12,521 4.2 3,429 3.7 1,54 Garrield 1,013 4.0 774 5.8 9,809	
Creek. 313 6.1 88 14.0 1,399 8.9 2,222 6.4 22 Custer. 918 4.1 1,117 5.4 12,288 3.6 4,135 3.6 1,47 Delaware. 486 5.8 149 12.0 4,545 6.4 10,206 4.8 6.3 1,47 Dewey. 641 5.0 645 5.4 5,235 8.5 2,691 7.2 65 Ellis. 656 4.3 375 6.3 5,285 4.5 3,323 4.4 48 Garfield. 1,238 4.4 1,459 6.5 12,521 4.2 3,323 4.4 48 Garvin. 698 5.7 399 9.5 6,283 7.3 3,093 13.0 90 Grady. 988 4.0 774 5.8 9,809 5.7 8,142 4.2 2,21 Grady. 998 4.0 774 5.8	8 8.4
Custer. 918 4.1 1,117 5.4 12,288 3.6 4,135 3.6 1,47 Delaware. 486 5.8 149 12.0 4,545 6.4 10,206 4.8 63 Dewey. 641 5.0 645 5.4 5,235 8.5 2,691 7.2 65 Ellis. 656 4.3 375 6.3 5,285 4.5 3,323 4.4 48 Garfield. 1,238 4.4 1,459 6.5 12,521 4.2 3,429 3.7 1,54 Garvin. 668 5.7 399 9.5 6,283 7.3 3,093 3.7 1,54 Grady. 958 4.0 774 5.8 9,809 5.7 8,142 4.2 2,21 Grant. 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Greer. 422 6.9 7.9 2.6 2,9	
Delaware 486 5.8 149 12.0 4,545 6.4 10,206 4.8 63 Dewey 641 5.0 645 5.4 5,235 8.5 2,691 7.2 65 Ellis 656 4.3 3.75 6.3 5,285 4.5 3,323 4.4 48 Garfield 1,238 4.4 1,459 6.5 12,521 4.2 3,429 3.7 1,54 Garvin 698 5.7 399 9.5 6,283 7.3 3,993 13.0 90 Grady 958 4.0 774 5.8 9,809 5.7 8,142 4.2 2,21 Grant 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Green 424 6.9 479 9.6 2,098 7.0 786 5.7 72 Harmon 300 9.7 488 7.8 4,057	
Ellis	7 6.5
Carfield. 1,238 4.4 1,459 6.5 12,521 4.2 3,429 3.7 1,54 Garvin. 698 5.7 399 9.5 6,283 7.3 3,093 13.0 90 Grad. 958 4.0 774 5.8 9,809 5.7 8,142 4.2 2,21 Grant. 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Greer. 424 6.9 479 9.6 2,098 7.0 786 5.7 72 Harmon. 300 9.7 488 7.8 4,057 8.7 1,044 6.8 66 Harper. 610 4.8 446 7.4 22,106 1.2 9,905 1.8 82 Haskell. 328 5.9 136 10.0 1,763 8.6 2,562 4.6 38 Hughes. 429 5.1 250 11.0 2,349	
Garvin 698 5.7 399 9.5 6,283 7.3 3,093 13.0 90 Grady 958 4.0 774 5.8 9,809 5.7 8,142 4.2 2,21 Grant 1,013 4.1 1,352 4.4 8,145 4.1 3,010 5.2 1,27 Greer 424 6.9 479 9.6 2,098 7.0 786 5.7 72 Harmon 300 9.7 488 7.8 4,057 8.7 1,044 6.8 6.6 Haskell 328 5.9 136 10.0 1,763 8.6 2,562 4.6 38 Hughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Jackson 605 3.7 895 5.2 12,876 3.2 5,533 1.2 1,88 Jefferson 522 4.1 348 8.3 10,679	
Grant.	3 7.1
Greer. 424 6.9 479 9.6 2,098 7.0 786 5.7 72 Harmon 300 9.7 488 7.8 4,057 8.7 1,044 6.8 66 Harper. 610 4.8 446 7.4 22,106 1.2 9,905 1.8 82 Haskell. 328 5.9 136 10.0 1,763 8.6 2,562 4.6 38 Hughes. 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Jackson. 605 3.7 895 5.2 12,876 3.2 5,533 1.2 1,88 Jefferson. 322 4.1 348 8.3 10,679 3.4 3,690 2.3 1,19 Johnston. 338 9.8 175 12.0 2,043 14.0 2,569 4.9 86 Kay. 954 4.2 1,039 4.1 7,327	
Harper 610 4.8 446 7.4 22,106 1.2 9,905 1.8 82 Haskell 328 5.9 136 10.0 1,763 8.6 2,562 4.6 38 Hughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Jackson 605 3.7 895 5.2 12,876 3.2 5,533 1.2 1,88 Jefferson 522 4.1 348 8.3 10,679 3.4 3,690 2.3 1,19 Johnston 338 9.8 175 12.0 2,043 14.0 2,569 4.9 86 Kay 954 4.2 1,039 4.1 7,327 5.5 2,679 5.4 1,22 Kingfisher 1,114 5.1 1,141 5.3 30,798 2.2 8,738 2.6 93 Kiowa 654 5.4 1,148 4.2 6,506<	
Haskell	
Hughes 429 5.1 250 11.0 2,349 7.9 2,130 7.2 76 Jackson 605 3.7 895 5.2 12,876 3.2 5,533 1.2 1,88 Jefferson 522 4.1 348 8.3 10,679 3.4 3,690 2.3 1,19 Johnston 338 9.8 175 12.0 2,043 14.0 2,569 4.9 86 Kay 954 4.2 1,039 4.1 7,327 5.5 2,679 5.4 1,22 Kingfisher 1,114 5.1 1,141 5.3 30,798 2.2 8,738 2.6 93 Kiowa 654 5.4 1,148 4.2 6,506 3.6 2,659 4.5 98 Latimer 210 6.8 48 8.6 1,410 12.0 1,478 4.7 18 Le Flore 527 4.8 267 9.6 4,172<	1
Jackson 605 3.7 895 5.2 12,876 3.2 5,533 1.2 1,88 Jefferson 522 4.1 348 8.3 10,679 3.4 3,690 2.3 1,19 Kay 954 4.2 1,039 4.1 7,327 5.5 2,679 5.4 1,22 Kingfisher 1,114 5.1 1,141 5.3 30,798 2.2 8,738 2.6 93 Kiowa 654 5.4 1,148 4.2 6,506 3.6 2,659 4.5 98 Kiowa 654 5.4 1,148 4.2 6,506 3.6 2,659 4.5 98 Kiowa 620 6.8 48 8.6 1,410 12.0 1,478 4.7 18 Le Flore 527 4.8 267 9.6 4,172 10.0 7,240 4.3 1,07 Lincoln 546 5.2 260 9.	
Johnston 338 9.8 175 12.0 2,043 14.0 2,569 4.9 86 Kay 954 4.2 1,039 4.1 7,327 5.5 2,679 5.4 1,22 Kingfisher 1,114 5.1 1,141 5.3 30,798 2.2 8,738 2.6 93 Kiowa 654 5.4 1,148 4.2 6,506 3.6 2,659 4.5 98 Latimer 210 6.8 48 8.6 1,410 12.0 1,478 4.7 18 Le Flore 527 4.8 267 9.6 4,172 10.0 7,240 4.3 1,07 Lincoln 546 5.2 260 9.8 2,611 11.0 4,943 6.2 62 Logan 471 5.8 310 9.3 4,543 11.0 2,832 4.3 1,03 Love 423 9.8 232 12.0 4,459 6.3 3,005 9.2 63 McClain 499 4.5 418 9.0 6,076 3.6 3,950 3.0 1,11 McCurtain 594 5.0 332 6.4 1	5 4.4
Kay	
Kingfisher. 1,114 5.1 1,141 5.3 30,798 2.2 8,738 2.6 93 Kiowa. 654 5.4 1,148 4.2 6,506 3.6 2,659 4.5 98 Latimer. 210 6.8 48 8.6 1,410 12.0 1,478 4.7 18 Le Flore. 527 4.8 267 9.6 4,172 10.0 7,240 4.3 1,07 Lincoln. 546 5.2 260 9.8 2,611 11.0 4,943 6.2 62 Logan. 471 5.8 310 9.3 4,543 11.0 2,832 4.3 1,03 Love. 423 9.8 232 12.0 4,459 6.3 3,005 9.2 63 McClain. 499 4.5 418 9.0 6,076 3.6 3,950 3.0 1,11 McCurtain. 594 5.0 332 6.4 10,088 2.8 15,975 3.7 90 McIntosh. 392	
Latimer. 210 6.8 48 8.6 1,410 12.0 1,478 4.7 18 Le Flore. 527 4.8 267 9.6 4,172 10.0 7,240 4.3 1,07 Lincoln. 546 5.2 260 9.8 2,611 11.0 4,943 6.2 62 Logan. 471 5.8 310 9.3 4,543 11.0 2,832 4.3 1,03 Love. 423 9.8 232 12.0 4,459 6.3 3,005 9.2 63 McClain. 499 4.5 418 9.0 6,076 3.6 3,950 3.0 1,11 McCurtain. 594 5.0 332 6.4 10,088 2.8 15,975 3.7 90 McIntosh. 392 5.9 129 15.0 573 13.0 1,835 5.4 41	3 4.1
Le Flore 527 4.8 267 9.6 4,172 10.0 7,240 4.3 1,07 Lincoln 546 5.2 260 9.8 2,611 11.0 4,943 6.2 62 Logan 471 5.8 310 9.3 4,543 11.0 2,832 4.3 1,03 Love 423 9.8 232 12.0 4,459 6.3 3,005 9.2 63 McClain. 499 4.5 418 9.0 6,076 3.6 3,950 3.0 1,11 McCurtain. 594 5.0 332 6.4 10,088 2.8 15,975 3.7 90 McIntosh. 392 5.9 129 15.0 573 13.0 1,835 5.4 41	
Logan 471 5.8 310 9.3 4,543 11.0 2,832 4.3 1,03 Love 423 9.8 232 12.0 4,459 6.3 3,005 9.2 63 McClain 499 4.5 418 9.0 6,076 3.6 3,950 3.0 1,11 McCurtain 594 5.0 332 6.4 10,088 2.8 15,975 3.7 90 McIntosh 392 5.9 129 15.0 573 13.0 1,835 5.4 41	
Love	
McCurtain 594 5.0 332 6.4 10,088 2.8 15,975 3.7 90 McIntosh 392 5.9 129 15.0 573 13.0 1,835 5.4 41	
McIntosh	
Major 641 5.9 505 5.9 8,541 7.0 2,527 3.5 75	
Marshall 172 9.1 99 12.0 1,605 8.0 1,489 8.5 39 Mayes 537 4.9 218 7.9 3,057 8.3 5,522 8.4 83	
Murray	
Muskogee	
Nowata	
Okfuskee	
Oklahoma 398 6.7 178 12.0 1,318 12.0 2,607 6.9 1,14 Okmulgee 355 5.8 153 15.0 3,350 9.8 1,941 4.0 59	
Osage	9 2.6
Ottawa 525 5.2 283 9.3 2,506 11.0 3,505 13.0 70 Pawnee 523 9.0 206 12.0 6,980 9.2 3,015 4.8 65	
Pawnee 523 9.0 206 12.0 6,980 9.2 3,015 4.8 65 Payne 503 6.0 221 13.0 5,120 12.0 3,213 6.9 81	
Pittsburg 562 4.4 171 7.0 5,350 6.1 7,425 2.5 1,06	3 8.3
Pontotoc	
Pottawatomie 386 6.7 178 7.9 2,297 17.0 2,794 6.2 63 Pushmataha 407 5.9 125 9.6 2,758 4.5 3,253 4.9 60	
Roger Mills	8 9.2
Rogers 524 6.9 205 9.6 3,560 12.0 4,054 6.0 99	
Seminole 366 5.6 136 7.6 2,595 5.9 2,681 5.9 71 Sequoyah 360 8.0 226 12.0 1,227 13.0 2,617 7.8 68	
Stephens 588 4.9 398 7.7 5,562 7.7 3,215 4.6 62	
Texas	t
Tillman	
Wagoner 384 5.3 360 8.5 5,066 12.0 2,555 11.0 2,49	4 3.1
Washington 290 7.6 80 13.0 3,160 12.0 1,997 8.5 58	
Woods	7 3.8
Woodward	
Farms not on mail list 2,414 21.0 855 42.0 9,569 22.0 11,356 29.0 69	4 35.0

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

ĺ	Defini	tion used fo	r 1974 and 197	18	Definition	n used for 1	959, 1964, and	1969	Operations excluded by current definition but not 1959 definition			ut not by
	Farms		Value of products sold (\$1,000)		Farms		Value of products sold (\$1,000)		Farms		Value of produ (\$1,000	
	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974
Oklahoma	79 388	69 719	2 367 696	1 594 913	94 851	74 059	2 371 894	1 595 854	15 463	4 340	4 198	941
Adoir	943 888 1 037 919 898 938 1 374 1 812 1 077 1 001	812 974 914 959 938 1 053 1 332 1 828 1 122 847	38 734 54 574 20 212 56 191 23 688 31 243 20 369 69 861 51 950 12 840	16 565 45 334 7 094 45 246 17 865 29 834 11 850 58 307 45 199 6 990	1 074 911 1 127 944 943 986 1 498 1 917 1 205 1 205	866 1 006 970 973 977 1 089 1 426 1 867 1 179 974	38 759 54 580 20 230 56 197 23 700 31 255 20 395 69 894 51 983 12 888	16 581 45 346 7 103 45 247 17 871 29 844 11 866 58 318 45 214 7 012	131 23 90 25 45 48 124 105 128 204	54 32 56 14 39 36 94 39 57	24 6 18 6 12 12 26 33 33 48	16 12 9 1 6 10 16 11 15 22
Cherokee Choctaw Cimarron Cleveland Coal Comanche Cotton Craig Creek Custer	1 030 889 490 908 559 1 044 627 1 117 1 057 980	871 841 475 718 507 929 668 1 049 906 1 028	32 952 22 176 65 573 10 852 9 633 24 250 24 690 33 349 8 614 45 437	16 204 7 139 50 938 7 055 5 698 15 112 18 651 22 203 4 885 37 306	1 214 974 500 1 114 597 1 141 645 1 228 1 293 1 021	954 910 485 809 532 989 696 1 094 1 015 1 076	32 990 22 197 65 574 10 902 9 643 24 277 24 699 33 368 8 674 45 452	16 223 7 149 50 938 7 078 5 707 15 127 18 654 22 215 4 905 37 319	184 85 10 206 38 97 18 111 236 41	83 69 10 91 25 60 28 45 109	38 20 1 50 10 27 9 19 60	19 10 23 9 15 3 12 20 13
Delaware Dewey Ellis Garfield Garvin Grady Grant Greer Harmon Harper	1 170 765 685 1 327 1 337 1 541 1 004 582 423 530	1 011 811 702 1 434 1 234 1 584 1 092 607 458 545	26 809 20 790 20 268 52 440 23 825 46 802 45 983 16 474 17 534 53 290	16 147 20 682 19 282 44 978 14 953 31 487 39 569 11 432 11 680 37 860	1 324 794 709 1 383 1 506 1 705 1 024 595 436 543	1 077 850 741 1 498 1 300 1 685 1 127 620 471 558	26 845 20 796 20 275 52 459 23 866 46 847 45 988 16 476 17 536 53 294	16 164 20 688 19 285 44 998 14 971 31 509 39 578 11 434 11 680 37 865	154 29 24 56 169 164 20 13 13	66 39 64 66 101 35 13	37 6 7 18 41 45 4 2 2	17 6 3 20 18 22 9 2 (Z) 5
Haskell	814 916 725 581 607 1 086 1 060 859 530 1 421	756 874 809 575 571 1 125 1 149 1 010 478 1 264	11 893 13 321 48 234 24 767 12 360 38 579 65 742 34 613 5 513 22 974	5 225 10 250 24 185 10 533 7 387 37 835 41 315 28 011 3 244 14 349	889 1 018 766 603 669 1 181 1 102 884 599 1 655	813 913 861 598 605 1 166 1 188 1 039 521 1 347	11 910 13 339 48 243 24 773 12 375 38 611 65 755 34 624 5 528 23 029	5 236 10 259 24 194 10 537 7 393 37 844 41 323 28 020 3 256 14 369	75 102 41 22 62 95 42 25 69 234	57 39 52 23 34 41 39 29 43 83	17 18 10 6 15 32 13 11 15 55	11 9 9 4 6 9 8 9
Lincoln Logan Love McClain McCurtain McIntosh Major Marshall Mayes Murray	1 591 949 603 889 1 317 870 896 410 1 256 400	1 499 966 513 890 1 054 781 1 004 362 1 103 413	18 037 22 314 14 703 25 531 39 538 8 714 28 169 9 737 19 073 10 113	11 950 14 684 5 989 18 205 21 767 5 334 24 182 4 860 10 365 7 548	1 815 1 057 655 1 041 1 512 952 926 459 1 418 438	1 608 1 037 547 961 1 151 830 1 029 388 1 173 461	18 082 22 338 14 719 25 567 39 572 8 732 28 175 9 747 19 109 10 119	11 972 14 701 5 994 18 218 21 786 5 343 24 186 4 870 10 379 7 560	224 108 52 152 195 82 30 49 162 38	109 71 34 71 97 49 25 26 70 48	45 24 16 36 34 18 6 10 36 6	22 17 5 13 19 9 4 10 14 12
Muskogee Noble Nowota Nowota Nowota Nowota Nowota Nowota Notable Nowota	1 318 775 709 764 999 981 1 012 927 647 1 071	1 233 866 642 714 874 920 996 835 622 1 029	21 052 24 154 13 988 9 207 13 780 11 046 49 713 18 225 16 025 17 741	16 725 19 909 7 018 5 978 13 221 7 448 23 515 13 314 11 820 13 552	1 540 823 793 854 1 275 1 161 1 136 1 060 719 1 245	1 351 887 686 765 1 046 1 003 1 072 881 662 1 113	21 113 24 166 14 007 9 228 13 855 11 089 49 735 18 258 16 044 17 778	16 745 19 912 7 025 5 987 13 265 7 461 23 527 13 329 11 827 13 568	222 48 84 90 276 180 124 133 72	118 21 44 51 172 83 76 46 40 84	61 12 18 21 75 43 22 33 19	20 3 7 9 44 13 12 15 7
Pittsburg Pontotac Pottawatamie Pushmataha Roger Mills Rogers Seminole Sequoyah Stephens Texas	1 317 1 011 1 267 781 770 1 203 941 921 1 146 875	1 190 943 1 151 684 819 1 000 856 837 1 064 951	22 602 18 225 14 064 11 160 21 010 16 537 12 083 10 354 22 036 316 493	10 331 9 138 12 127 4 162 18 538 8 740 6 418 6 959 12 398 178 557	1 471 1 157 1 479 872 787 1 456 1 108 1 108 1 305 903	1 247 1 006 1 255 731 838 1 094 929 902 1 149 974	22 635 18 257 14 114 11 179 21 015 16 602 12 117 10 391 22 079 316 499	10 348 9 150 12 142 4 169 18 543 8 757 6 432 6 978 12 418 178 564	154 146 212 91 17 253 167 187 159 28	57 63 104 47 19 94 73 65 85 23	33 32 50 20 4 66 34 38 44 6	17 12 15 7 5 17 14 19 20 7
Tillman Tulsa Wagoner Washington Washita Woods Woodward	785 889 885 628 1 262 849 772	878 801 739 536 1 431 861 802	49 059 13 138 27 102 9 246 50 084 41 392 25 563	39 978 8 271 12 170 6 010 40 606 36 878 26 367	802 1 194 1 001 760 1 294 875 836	893 943 794 591 1 463 884 850	49 065 13 215 27 134 9 278 50 096 41 398 25 580	39 980 8 314 12 184 6 025 40 612 36 886 26 376	17 305 116 132 32 26 64	15 142 55 55 32 23 48	6 77 32 32 12 6 18	2 43 14 15 6 8
Farms not on mail list	7 151	(NA)	37 288	(NA)	14 642	(NA)	39 583	(NA)	7 491	(NA)	2 294	(NA)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

			Farms, 1974	T	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	223,268	152 850	~2.0	169 671	+49.4
\$40,000 to \$99,999	364,010	152,850 324,417	1.1	149,471 327,834	+11.0
\$20,000 to \$39,999	306,483	321,733	2.0	327,438	-6.4
\$10,000 to \$19,999	309,250	309,876	5.8	326,852	-5.4
\$5,000 to \$9,999 \$2,500 to \$4,999	330,464 331,329	296,043 289,511	8.1 11.4	322,002 326,432	+2.6
Less than \$2,500	610,367	616,272	25.9	842,387	-27.5
NortheastFarms with sales of	149,385	127,531	16.5	152,730	-2.2
\$100,000 or more	12,699	8,003	1.9	8,282	+53.3
\$40,000 to \$99,999 \$20,000 to \$39,999	25,835 15,820	22,358 20,543	4.7 9.8	23,812 21,019	+8.5 ' -24.7
\$10,000 to \$19,999	14,194	14,900	9.5	14,680	-3.3
\$5,000 to \$9,999	16,734	13, 173	3.1	13,797	+21.3
\$2,500 to \$4,999 Less than \$2,500	19,609	13, 148	16.7 35.5	16,019	+22.4
North Central	44,494	35,406		55,121	-19.3
Farms with sales of \$100,000 or more.	1,027,319	1,017,367 69,440	6.3 -3.1	1,096,353	-6.3 +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 \$5,000 to \$9,999	148,064 126,879	165,864	4.0 6.1	172,189	-14.0
\$2,500 to \$4,999	103,363	131,677 103,914	10.6	139,755 115,841	-9.2 -10.8
Less than \$2,500	153,235	159,022	23.0	210,362	-27.2
SouthFarms with sales of	1,016,070	930,099	15.2	1,107,200	-8.2
\$100,000 or more	67,430	45,765	-2.7	44,568	+51.3
\$40,000 to \$99,999 \$20,000 to \$39,999	84,887 85,965	73,981 75,791	3.2 1.6	76,455 77,051	+11.0
\$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 Less than \$2,500	174,997 331,269	145,243 365,584	11.6 25.5	164,350 497,648	+6.5 -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 \$20,000 to \$39,999	37,581 31,274	35,116 30,911	.0	34,875 30,977	+7.8 +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 Less than \$2,500	33,360 81,369	27,206 56,260	10.6 27.8	30,222 79,256	+10.4
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 86,047	104,262 75,458	16.2 5.7	124, 182 80, 092	-4.0 +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
	95,821	92,158	4.9	96,899	-1.1
OhioFarms 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
		07 025	7.0	05 045	اً ؞ ا
Indiana	88,458 71,681	87,915 70,986	7.2 3.6	95,341 73,637	-7.2 -2.7
Farms with sales of \$2,500 or more Farms with sales of less than \$2,500	16,777	16,929	22.0	21,704	-22.7
	· 1				1
Illinois	109,770	111,049 97,738	9.1 3.8	126,295 101,599	-13.1 -5.1
Farms with sales of \$2,500 or more	96,389 13,381	13,311	46.1	24,696	-45.8
rating with sairs of resp than 42,300	,,	,		/	•

Table A Farms by Areas and Value of Agricultural Products Sold: 1978 and 1974 – \mbox{Con} .

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

See footnotes at end of table.

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

			Farms, 1974		Percent change.
	Farms, 1978 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	(1, (00)	, ,
Farms with sales of \$2,500 or more	40,669	31,299	16.7 10.0	61,489	-4.4
Farms with sales of less than \$2,500	18,119	19,660	26.4	34,777	+17.0
	19,129	17,000	20,4	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	111 060	4 7	100 500	, ,
Farms with sales of \$2,500 or more	97,876	111,868 90,449	6.7 2.4	122,588 92,673	+4.3
Farms with sales of less than \$2,500	30,005	21,419	28.4	29,915	+5.6 +.3
Pacific ²	154,516	102 027	11. (1/2 5/5	• .
Farms with sales of \$2,500 or more.	103,152	123,837 88,996	11.6 5.6	143,545 94,204	+7.6
Farms with sales of less than \$2,500	51,364	34,841	27.5	49,341	+9.5 +4.1
Weehington	27 770	20. / 20	10.0	· ·	
Washington Farms with sales of \$2,500 or more	37,778 24,737	29,410	10.8	32,999	+14.5
Farms with sales of less than \$2,500	13,041	21,079	6.4 20.5	22,520	+9.8
ν του συνό συνό συνό συνό συνό συνό συνό συν	15,041	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

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

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

Γ			Farms, 1974		Percent change,
	Farms, 1978 ¹	Published	Net percent missed	Adjusted	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	212 110	126,604	26.1	174,773	+21.9
10 to 49 acres	213,110 474,535	378,631	22.9	494,024	-3.9
50 to 179 acres	813,944 596,268	827,506 615,913	11.0 3.9	936,797 646,957	-13.1 -7.8
500 acres or more	377,314	362,048	1.5	369,865	+2.0
Tenure of operator:					12.1
Full owner	1,450,414 712,844	1,422,367 627,648	13.0 5.2	1,650,942	-12.1 +6.8
Tenant	311, 913	260, 687	12.6	304,072	+2.6
NORTHEAST	•				
Farms	149,385	127,531	16.5	152,730	-2.2
Farms by size:		7 (00	14.0	0 201	
1 to 9 acres	13,534 28,098	7,689 19,416	16.8 31.2	9,301 28,403	+45.5
50 to 179 acres	61,017	54,901	17.1	66,655	-8.5
180 to 499 acres	38,288 8,448	37,864 7,661	6.0 1.5	40,542 7,829	-5.6 +7.9
	0,440	7,001	1.5	7,027	
Tenure of operator: Full owner	93,880	83,389	19.5	103,110	-9.0
Part owner	43,680 11,825	36,112 8,030	4.9 32,4	37,797 11,823	+15.6
NORTH CENTRAL		•			
Farms	1,027,319	1,017,367	6.3	1,096,353	-6.3
Farms by size:					
1 to 9 acres	58,168	36,065 108,756	30.8	52,227	+11.4
10 to 49 acres	138,016 324,583	350,343	18.5 6.8	133,716 376,663	+3.2 -13.8
180 to 499 acres	321,482 185,070	345,610 176,593	2.5 .9	355,187 178,560	-9.5 +3.6
Tenure of operator:		·			
Full owner	542,504	568,866	7.5	620,166	-12.5
Part owner	334,287	313,364 135,137	4.0 7.3	329,173	+1.6
	150,528	133, 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	95,711	55,659	21.1	91 (29	17.5
10 to 49 acres	232,908	194,050	31.1 24.2	81,428 258,033	+17.5 -9.7
50 to 179 acres	370,928	369,648	4.0	433,227	-14.4
180 to 499 acres	197,023 119,500	196,395 114,347	7.8 3.8	214,701 119,811	-8.2 3
Tenure of operator:					
Full owner	633,455	623,219	17.4	757, 206	-16.3
Part owner	264,029 118,586	214,061 92,819	7.5 20.9•	232,239 117,755	+13.7
WEST ²					
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
50 to 179 acres	75,513 57,416	56,409 52,614	22.0 10.8	73,872 60,252	+2.2
180 to 499 acres	39,475	36,044	8	36,527	+8.1
500 acres or more	64,296	63,447	-1.8	63,665	+1.0
Tenure of operator: Full owner	180,575	146,893	12.1	170,460	. F. A
Part owner	70,848	64,111	4.1	68,193	+5.9 +3.9
Tenant	30,974	24,701	8.3	27,480	+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

UE BY FEBRUARY 15, 1979								Approved: O.		
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CTION 1 ACREAGE IN 1978 If the acres you operated in 1978	channed during the year, reter	to the		MOTOLICTIC	during 107			for reporting ops in the app		
INFORMATION SHEET, Section 1	1.			INSTRUCTIO	Do not inc	lude crops gr	own on land r	ented to other ed in sections	s. Use	section
Report land owned, rented, or use corporation, or organization for wi	d by you, your spouse, or by t hich you are reporting. Includ	ihe partners le ALL LA	ship, ND.	SECTION 2			···			
REGARDLESS OF LOCATION OF rangeland, woodland, idle land, h	R USE – cropland, pastureland	j,	Number of acres	3EC110# 2 .	fere any of the FOL	LOWING CRI	TLO BRIAERIE	HOW THE PIE	III 1:	7/4:
	•		043		None	Acres harveste	d Quant	ity harvested		Acres irrigated
All land owned		_		1. Field corn for		067	068	Bu.	06	
All land rented or leased FROM C you on shares, used rent free, in	exchange for services, paymer	nt -		seed (Report of	quantity on qht basis)	1	{ }	OR Cwt.	-+}	
of taxes, etc. Include leased Fed (DO.NOT include land used on a r	per-head basis under a grazing	Į	044	2. Field corn for		070	071	Tons	072	
permit.) Also complete item 5 be	low,	··· 🗆	045					gree	n	
All land rented or leased TO OTH shares by others and land subleas	IERS, including land worked o		V45	3. Wheat for grain	n	073	074	8u.	075	
ACRES IN THIS PLACE - ADD a		ow	046	4. Oats for grain		076	077	Bu.	078	
acres rented (item 2), then SUBTF	RACT acres rented TO			5. Barley for gra	in	079	080	Bu.	081	
OTHERS (item 3), and enter the re	esult in this space.		<u> </u>			082	083	Bu.	06	4
For this census report these are to if the entry is zero please refer to	THE WACRES IN THIS PLACE.	Section 1.	J	 Sorghums for g seed (include 	grain or milo)		7	OR Lbs.	7	
				7. Sorghums for s	silage	085	086		087	
If you rented land FROM OTHERS Name of landlord	Mailing address (Include 2		Number of acres	or green chop sorghum-sudar	(exclude 1 crosses) [Tons gree		
Traine of renorms	thousing accordes (moroba 2		047	E .	eans	088	089	Bu.	090	
<u> </u>	 		048	9. Cotton		091	092	Bale	093	
			049	10. Tobacco – ali	types	094	/10 095	Lbs.	096	! ,
List additional landlords on a sep	parate sheet of paper.		L	11. Irish potatoes		097	/10 098	Cwt.	099	1
. If you rented land TO OTHERS (it	em 3), enter the following infr	rmation for	r each renter	12. Sweetpotatoes	and yams	100	/10 101	Bu.	102	
Name of renter	Mailing address (Include 2		Number of acres		ias any DRY HAY,	GRASS SILA			CHOP	
			050		r harvested from thi	s place in 19	78? (Include	sorghum-suds	in cross	**
			051		YES - Compte		M)			
			052	2	NO - Go to s	ection 4				
List additional renters on a separa	ete sheet of paper.		 	if cuttings we same tields in	re made for both dry sport the acreage in	hay and grad	ss silage, hay	lage, or green	chop to	om the
a. Of the land you rented or leased how many acres did you own?	110160	053		GRASS SILAG	E, HAYLAGE, and	GREEN CHO	₽,	Ditty 135-1 ()	ina anac	4.14
	(J		Acres	 DRY HAY (If two or more 	ocuttings of dry hay	were		Quantity ha	vested	
During 1978, did you have any Fed State grazing permits on a per-head	d basis;			made from the	same acres, report int total tons from a	acres only	Acres harvested	(Report elti	veight	Acres irrigat
such as Forest Service, Taylor Grandian Reservations, etc.?	azing,	054			falfa mixtures for		103	as indice	Tons,	105
			2 <u>N</u> o	f	ating		106	107	dry Tons,	108
How many set aside acres did you in the Federal Farm Program in 19	None None	Q5.5	Acres	,	ry - oats, wheat, ba	,,,	109	110	dry	111
LOCATION OF AGRICULTURAL	_	 E			y hay, clover, lespe uda grass, Sudan gr				Tons, dry	
a. In what county was the			Tabustin	1			112	113	Tons,	114
largest value of your agricultural products Prin	County name	State	Number of acres	1	E, HAYLAGE, ANI				ary	
raised or produced?	nty>		057	(If two or more	e cuttings of grass een chop were made	silage,				
b. If you also have agricul-	. [same acres, r	eport acres only one ms from all cuttings	ce, but			т	
other county(ies), enter cour	nties		058		and haylage		115	116	Tons, green	117
the county name(s), etc	Ų		059	6. Hay crops cu	t and fed green (gree	en chop)	118	119	Tons, green	

SECTION 4 Was there	a combi	ned total of 20	or more FRUI	T TREES.	including G	RAPEVINE	S. CITRUS and	I NUT	TREE	S ON T	HIS PLACE	in 1978?	(Do not	t include al	nandoned trees)
004 1 YES				,		.,,,,			. , , , , ,				(50 110	· morgao a	randanta tiono	•
2 NO	- Go to	section 5				tal acres	Acres irrigated									
TOTAL ACRES in beari or other groves, vineyar					121	121 1 12			122							
		10	1020	/10		NONCITRI Apples		123	(Report o	quentity	Code					
2. From the list at the right requested information for	or each c	rop even if not	harvested beca	suse of lov	v prices, dan	nage from h	ail, frost, etc.	For	interpla	i ine inted	Apricots . Avocados	- See		from bloc	d in 1977—78 om of 1977)	
trees, estimate the area	covered	by each kind	of fruit. If othe	er crops we	ere interplan	ted with tre				ı	Cherries .	on Sheat	147	Lemons	it	279
		NUMB TREES OR	ER OF VINES OF -		s in trees	_	M	of me lark or		Grapes		dry weight fresh weig	tht 177	171 Oranges It 177 Tangelos		297
Crop name	Code	Nonbearing	Bearing		vines of ages	Quan	sted .	sted . 2		Lbs. per	Olives — 8 Informati Peaches .	on Sheet			ins	309
	<u> </u>	age	age		res Tenths		ş	Tons	Boxes	box	Pears Plums and		231	NUT CR	rus — Specify	
			1	2	/10	3	i o	2 [3 🗀	5	fresh we Prunes -	ight	243	(Report	quantity in	Code
			ŧ	2	/10	3	4	2 🗀	3 🗀	5	Other none	itrus —		the shell Almonds		321
		-	1	2	1	3	10		3	5	4,44, 4			Pecans,	and haze inuts improved	
 		 	t	2	/10	3	1 4		14 [-1	5				Pecans, and se	wild edling (English	345
	<u> </u>		1	2	/10	3	<u>'</u> _	2 🗌	3					or Pers	ian)	357
	<u> </u>	1	1	<u> </u>	/10			2 🗀	3 🗀					Specify		363
It more space is needed, u SECTION 5 Were any			T CORN, MEL(ote 2MC	harveeled		SECTION 7	w	ara am	CTDAY	DEDDIEC	CDANGE	BBIEC A	or OTHER	BERRIES harv	er ted
		his place in 19		M3, U ,	Hai ve atou						this place		.111112.0, 1	or DINER	DENNIES HAIF	co-uçu
	- Com	plate this secti	ion				Ĭ		☐ YE	S - Con	nplete this	section				
2 NO	- Go t	section 6						2	☐ NC	- Go	to section	8				
For Florida, report for a August 31, 1978 herves	Septemb	er 1, 1977 throi	ugh				From the lis unit specific				ame and co	xle. Repo	art quanti	ity harvest	ed in	
other States report for c	alendar	year 1978.	Ac		<u> </u>	Acres irrigated Whole acres ! Tenths					Acres harvested		Quantity harvested		Acres irrig	zated
1. Land from which vegeta harvested in 1978			Whole acre	_	376	1	Crop na	nie -		W	ole acres	Tenths	Quantity	(ID) 452 (GI	Whole acres	Tenths
2. From the list below, en			L	i /10	tad in 1978	i /10						/10				/10
If more than one vegeta each crop. Report crop	ble crop	was harvested	from the same	acres, rep								/10	1		2	/10
Crop name		Co		arvested	Acres in	rigated		•				/10	1		2	/10
0.00	-			/10	1	/10	If more space	e is n	reeded,	U30 361	arate shee	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • •	100	<u> </u>	/
				/10	1	/10	Crop name				Cod		- 1. E . I	p name		Code
				/10	1	/10	Blackberries Blueberries	. tame	(noun	(2)	S12		Stra	wberries (ounds)	536 536
			1	/10	1	/10	Blueberries Cranberries	(100-	(pound lb. bar	s)	515 521		Sp	other berri	es (pounds) —	539
				/10	1	/10	SECTION 8								178 — rice, pea	nuts,
				/10	1	/10	٥				at Crops, of mplete this	The section of the	be not b	exidusiy n	sharred:	
If more space is needed, of Crop name				in Crops		Code			_		to section					
Asparagus	379		pickles 41	1 Peppe	rs, sweet .	443	프리트 아는 시민들은 가는 말이 하는 말로리를 가지 않는 사람들이 얼룩했다면 모든 문제									
Beans, snap (bush and pole)	381	Garlic	41	1 Pumpk	rs, hot	449	unit specified with crop name.									
Broccoll	385	Lettuce and ro	ons 42 maine 42 reen 42	7 Spinac	hes h	457	Crop	name		Code	Acres	harvested	Quan	tity harves	ted Acres in	igated
Cabbage		Mustard greens	43	1 Sweet	com	461		*****					1		2	
Carrots	397	Onions, green	43	5 Turnip	s	465				<u> </u>			1		2	
Celery		Peas, green, in English (exc	ncluding	. Watern	neions	473							4		2	
Cowpeas (blackeyed and	409	green cowpea			ify]՝			
	NURSER	Y and GREEN	HOUSE PRODI	JCTS, sod	, bulbs, flow	ers.							1		2	
flower see	eds, veg	etable seeds a	nd plants, vege in FOR SALE of	tables und	er glass or								1		2	
006		picte this secti		ar una piar	NO 111 147701					ļ			+;		2	
		section 7	<u> </u>	***************************************	ea irrigated	1_							<u> </u>			
			None 4	Square fe	et ACF6	s Tenths					i e		1		2	
1. Nursery and greenhouse	•	-				/10	If more spac	e is n	eaded,	use ser	erete shee	of paper.				
2. From the list below, ent	ter the p			n product g			Crop name Atfalfa see	f (nou	nde)			ide Crop i		hushels).		Code 665
Product name	Code	Square feet up	er in	1978	Sales	in 1978	Beans, dry (100-pound	field a	and see	id		Red c	AVOT SA	ed (anunds		. 671
		protection in	Whole ac	res i Tenti	2	Cents	Beans, dry (100-pound	lima			4.7	57	(barre	is)	or	. 683
				/1	0 \$	1	Buckwheat Corn cut for	(bush dry f	els) odder,	nogged	\$	75 Rye f	of grain (ass seed	bushels) (pounds)		. 686 . 689
				/1	0 \$	i	or grazed Cowpeas to	(repor	t acres beas (b	only) . ushels)	5	\$1 Saffio \$4 Sorgh	wer (pou	nds) or dry fora	ge	. 692
			L'	/1	0 \$!	Emmer and Fescue see	spelt d (pou	(bushe inds)	s)	\$	99 or h	ay (tons, ums hogg	dry weigh ed or grazi	i)	. 698 . 701
If more space is needed, u Product name	se sepai		aper. Product name			Code	Flaxseed (b Grains, mix	ushe! ed (bu	s) isheis)		6	05 Sugar 14 Sugar	baets for a	r sugar (to sugar (tons	15)	719
Bedding plants (include veg	etable p	lants) 479 i	Foliage and flo Mushrooms	wering pla	nts	491	Kentucky B Lespedeza	luegra seed (ss see pounds	d (pound)	is) 6: 6:	29 See 38 Sugar	informati	on Sheet seed (tons		. 725
Bulbs	greens mentals	485	Sod harvested Vegetable and I	lower see		497	Mint for oil Peanuts for	pound nuts	ds of o (pound:	il) i]	& \$	56 Timot	hy seed t	(pounds)		. 734 . 746
lining-out stock, fruit and	nut tre	ės, (Greenhouse veg	etables .	• • • • • • •	. 503 506	Peas, dry fi Popcorn (po	eic ar	o seed	(pound:	<i>5)</i>	59 Other 52 Spec	crops (p	ounds) -		. 773 .

	DATE F - OAL VEC - this alers to 10707				
SECTION 9 GROSS VALUE of CROPS SOLD from this place in 1978, BEFORE taxes and expenses (Refer to the INFORMATION SHEET, Section 9.)	SECTION 12 Did you or anyone else have any CATTLE or CALVES on this place in 1978? O12 1 YES - Complete this section				
Report your best estimate of the value for each of the following groups of crops sold from this place in 1978, Include the value of the landlord's and/or contractor's	2 NO - Go to section 13 INVENTORY Number on this				
share, estimating if necessary. Include value of Government CCC loans.	DECEMBER 31, 1978 INVENTORY None place Dec. 31, 1978				
1. Grains sold in 1978, including Government CCC loans - None Corn for grain, grain sorghums, rice, wheat and other	1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)				
small grains, soybeans, dry beans, dry peas and cowpeas, flaxseed, sunflower seed, popcorn, and safflower	a. BEEF COWS - Include beef helters that Beef had calved				
a. Of the total, how much was received in 1978 from Government CCC loans?	b. MILK COWS kept for production of milk or cream for sale or home use - include dry milk cows and milk helfers that had calved				
2. Cotton and cottonseed, including Government CCC loans	c. HEIFERS AND HEIFER CALVES — Exclude heifer calves				
a. Of the total, how much was received in 1978 from Government CCC loans?	d. STEERS, STEER CALVES, BULLS AND BULL CALVES				
3. Tobacco	FROM THIS PLACE IN 1978 Include those fed on this place on a None in 1978 United those fed on this place on a None in 1978 Lollars Cents				
4. Field seeds, grass seeds, hay, forage, and silage	contract or custom basis. Also report				
5. Vegetables, sweet corn, and melons—DO NOT include Irish potatoes or sweetpotatoes, report them in Item 8 below	to a faediat for further feeding.				
6. Fruits, nuts, berries - apples, peaches, grapes,	2. Calves weighing less than 500 pounds				
citrus, pecans, strawberries, etc	3. Cattle, including calves weighing 500 pounds or more				
8. Other crops - peanuts, Irish potatoes, sweetpotatoes,	a. Of the total cattle sold, how many				
sugar beets, sugarcane, mint for oil, hops, etc specify	were FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more and SOL D for SLAUGHTER?				
SECTION 10 LAND USE IN 1978					
1. Copy ACRES IN THIS PLACE from section 1, item 4, page 1	DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1978 None Dollars Cents				
ONLY ONCE — in the use first listed below that applies. For example, cropland harvested and also pastured is to be reported only as "Cropland harvested."	4. Gross value of sales of DAIRY PRODUCTS from this place in 1978. Report goal dairy				
2. CROPLAND None Number of acres					
Cropland harvested — Include all land from which crops were harvested or hay was cut, and all land in orchards, cittus groves, vineyards, and nursery and greanhouse products	SECTION 13 Did you or anyone else have any HOGS or PIGS on this place in 1978?				
b. Cropland used only for pasture or grazing - Include rotation pasture and grazing lend that could have been used for crops	2 NO - Go to section 14 INVENTORY Number on this				
without additional improvements	DECEMBER 31, 1978 INVENTORY None place Dec. 31, 1978 1. HOGS and PIGS of all 2005 (Total of a part b below) Total				
c. Cropland used for cover crops, legumes, and soil-improvement grasses, but NOT harvested and NOT pastured	1. HOGS and PIGS of all ages (Total of a and b below)				
d. Cropland on which all crops failed (Exception: Do not report here land in prochards and vineyards on which the crop failed. Such acreage is to be reported in item 2s.).	b. OTHER HOGS and PIGS Other				
e. Cropland in cultivated summer fallow	LITTERS FARROWED				
f. Cropland idle	2. LITTERS FARROWED on this place between - None Number of litters a. December 1, 1977 and May 31, 1978				
3. Woodland - include all woodlots and timber tracts and outover and timber tracts and outover a. Woodland pastured	b. June 1, 1978 and November 30, 1978				
and timber tracts and outover end deforested land with young timber growth.	w. Julie 1, 1370 and November 30, 1370				
4. Other postureland and rangeland - include any pestureland other than crupland and woodland pesture	◆ HOGS AND PIGS SOLD None None Number soid Gross value of sales in 1978 Dollars Cents				
5. All other land - Land in house lots, ponds, roads, wasteland, etc. Include any lend not reported in items 2 through 4 above	3. HOGS and PIGS SOLD from this place in 1978 S				
6. TOTAL ACRES Add the acres reported in items 2 through 5 (Should be the same as item 1 abovs.)	4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?				
SECTION 11 Was any LAND in this place IRRIGATED at any time in 1978?	SECTION 14 Did you or anyone else have any SHEEP or LAMBS on this place in 1978?				
Irrigeted land is all land watered by any artificial or controlled means — sprinklers, turrows or ditches, spreader dikes, etc. include supplemental, partial, and preplant irrigation.	O14 1 YES - Complete this section 2 NO - Go to section 15				
O11 YES - Complete this section	INVENTORY SALES Number on this Number sold				
How many acres of each of the following classifications of land were irrigated in 1978? None Number of acres irrigated irrigated	None place Dec. 31, 1978 in 1978				
a. HARVESTED LAND reported in section 10,	A. SPICEL WITH LAMBS OF AN ASSESSMENT ASSESS				
item 2a - Include land from which hay was cut and land in bearing and nonbearing fruit 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 dives,	None Number shorn Paunds of wool shorn				
canals, ditches, pipes, or other works.	2. SHEEP and LAMBS SHORN				
complete failure, idle land, land in cultivated summer fallow, or land in cover crops and soil-improvement grasses	Gross value of sales None Dollars Cents				
d. TOTAL LAND IRRIGATED (Total of a, b, and c above.)	3. What was the gross value of sales of sheep, lambs, and wool from this place in 1978?				

SECTION 15 Did you or anyone els LIVESTOCK, or ANIA	e have any HORSES	S, BEES, FISH in 1978?	I, OTHER		SECTION 17 Income from MACHINE WORK, CUSTOMWORK, and OTHER AGRICULTURAL SERVICES PROVIDED for others in 1978					
1 YES - Complete					Total amount received from machine work, customwork, None Dollars Cents					
2 ☐ NO — Go to see	INVENTORY	1			and other agricultural services PROVIDED FOR OTHERS in 1978 – planting, plowing, spraying, harvesting, etc					
N	Number on this place	Total numb	78	s value of sale	4					
None 1. Horses and ponies of	Dec. 31, 1978	831	832	Ilars Cen	SECTION 18 During 1978 did you SELL any crops, livestock, or livestock products					
all ages			\$		DIRECTLY to individuals FOR HUMAN CONSUMPTION — roadside					
2. Mules, burros, and donkeys	833	834	835	į	stands, farmers markets, pick your own, etc.?					
	836	837	838	1	1 YES - Complete this section Dollars Cents 2 NO - Go to section 19					
Mink and their pelts	863		\ \$		1. What was the gross value of these direct sales?s					
breeding	1									
4. Other livestock or animal specialties in captivity					Specify products sold - vegetables, eggs, etc. SECTION 19 TYPE OF ORGANIZATION					
(Enter name and code from 'List A' below.)				1	Mark (X) the one item which best describes the type of organization for this place in 1978.					
		1	2	!	Refer to the INFORMATION SHEET, Section 19.					
NameCode			Gross	s value of sale	• FAMILY or INDIVIDUAL operation (sole proprie- torship), excluding partnership and corporation []					
	res under water T or aquaculture	otal quantity : in 1978		llars Cer	• PARTNERSHIP operation. Include family partnerships 2 [] Total number					
code from "List B" below.)		Pou	Pounds 1		INCORPORATED UNDER STATE LAW Answer BOTH * and b Answer BOTH * and b					
Name Code	2	OR Gal	ions s		a. Is this a family held corporation? $\left\{ \begin{array}{l} 3 & \text{if } Yes \\ 4 & \text{if } No \end{array} \right\}$					
6. Fish and other aquaculture	1		,	i	b. Are there more than 10 stockholders? ∫5 □ Yes					
products (Enter name and code from "List C" below.)	 	OR	inds	!	●OTHER, such as cooperative, estate or trust, prison					
Name Code	/10		11,	}	farm, grazing association, Indian reservation, etc 7 Specify					
	LIST A	Nun	nber []	i	SECTION 20 CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner or person in charge). Refer to the INFORMATION SHEET, Section 20.					
Name Code Name		Code N		Cod 85	1. RESIDENCE - Does the operator (senior partner or 923					
Colonies of bees 839 Other goats 848 Worms. Angora goats 842 Rabbits and their pelts 851 All other livestock Milk goats 845 Chinchillas and their pelts 854 Specify.				stock –	person in charge) live on this place?					
List B		(List C		1					
Mame Com		Сос 87		Code fish -	3 American lodian					
Goats milk sold			6 Spec Other	aquaculture	2. RACE of operator (senior partner or person in charge) 4 Asian or Pacific Islander 9 Other - Specify,					
Other livestock products – Specify 87	baitfish . '0	88	0 prod <i>Spec</i>	ucts — :ify 88	S C Other - Specify					
If more space is needed, use separa		nv t 01	HOVENS T	UDVEVE	925					
SECTION 16 Did you or anyone els DUCKS, etc., on this					3. AGE of operator (senior partner or person in charge) Years old					
contract basis.)	- 45/		NVENTORY Number on	Total numb	4. SEX of operator (senior partner or person in charge) Male 2 Female					
2 NO - Go to se		1	this place ec. 31, 1978	sold in 197	5. SPANISH ORIGIN - Is the operator (senior partner					
1. HENS and PULLETS of laying age		892		893	or person in charge) of Spanish origin or descent 927 (Mexican, Mexican American, Cuban, or other Spanish)?ı 📋 Yes 2 📋 No					
		894	,	895	6. PRINCIPAL OCCUPATION - At which occupation					
2. PULLETS 3 months old or older no			5	897	did the operator spend the majority (50 percent or more) of his work time in 1978? For pertnerships					
3. PULLET CHICKS and PULLETS u (Exclude commercial broilers.)	nder 3 months old				consider all members of the partnership together 1 Farming 2] Other					
4. BROILERS, fryers, and other meat including capons and roasters	type chickens,	[]	3	899	7. OFF FARM WORK — How many days did the operator (senior partner or person in charge) work at least					
5. TURKEYS		900)	901	4 hours per day off this place in 1978? Include work at a nonfarm job, business, or on someone else's farm.					
a. Turkeys for slaughter (Exclude b	oreeders.)				(Exclude exchange farm work.)					
b. Turkey HENS kept for breeding		🗆 📴		903	s <u>150−199</u> days 6 <u>200</u> days or more					
6. OTHER POULTRY raised in captive										
pigeons of squab, pheasants, quail,	ofc (Catalana)	<i>'</i>		1,	SECTION 21 Was any of the land in this place held under FOREIGN OWNERSHIP in 1978?					
name and code from the fist below.)	etc. (Enter poultry	1								
Poultry name				ļ <u>.</u>	2 NO					
Poultry name	Code			1	2 NO 3 Don't Go to section 28					
Poultry name	Code Code		Name	Code	2 NO 3 Don't know Of the total acres in this place, how many were owned by -					
Poultry name Poultry name Name Code Na Ducks 904 Pi	Code	908	Quail Àll óther po	912 ultry –	2 NO 3 Don't know Of the total acres in this place, how many were owned by 1. Individuals who are NOT citizens of the United States?					
Poultry name Poultry name Name Code Na Ducks 904 Pig Geese 906 Phi	Code —— Code —— me geons or squab	908	Quail Àll óther po	912	2 NO 3 Don't Acres Of the total acres in this place, how many were owned by -					
Poultry name Poultry name Name Code Na Ducks 904 Pi	Code Code Code Code Code Code Code Code	908 910 None	Quail All other por Specify	912 ultry –	2 NO 3 Don't know Of the total acres in this place, how many were owned by - 1. Individuals who are NOT citizens of the United States?					
Poultry name Poultry name Name Code Na Ducks 904 Pig Geese 906 Phi 7. POULTRY HATCHED on this place 1978 and placed or sold — chickens turkeys, ducks, etc. — Specify kind	Code	908 910 None	Quail All other por Specify	912 ultry – 914	2 NO 3 Don't know Of the total acres in this place, how many were owned by 1. Individuals who are NOT citizens of the United States?					
Poultry name Poultry name Name Code Na Ducks 904 Pig Geese 906 Phi 7. POULTRY HATCHED on this place 1978 and placed or sold – chickens turkeys, ducks, etc. – Specify kind 8. Incubator egg capacity on Decembe	Code Code Code Code Code Code Code Code	908 910 None	Quail All other por Specify	912 ultry – 914	2 NO 3 Don't know OI the total acres in this place, how many were owned by 1. Individuals who are NOT citizens of the United States? 2. A foreign held corporation or unincorporated association, or a foreign government? SECTIONS 22 - 27 Not applicable to this form					
Poultry name Poultry name Name Code Na Ducks 904 Pig Geese 906 Phi 7. POULTRY HATCHED on this place 1978 and placed or sold — chickens turkeys, ducks, etc. — Specify kind 8. Incubator egg capacity on Decembe 9. What was the gross value of sales of	Code Code Code Code Code Code Code Code	None [] {_}	Quail	912 ultry - 914 Number	2 NO 3 Don't know Of the total acres in this place, how many were owned by 1. Individuals who are NOT citizens of the United States?					
Poultry name Poultry name Name Code Na Ducks 904 Pig Geese 906 Phi 7. POULTRY HATCHED on this place 1978 and placed or sold – chickens turkeys, ducks, etc. – Specify kind 8. Incubator egg capacity on Decembe	Code Code Code Code Code Code Code Code	None [] {_}	Quail	912 ultry - 914 Number	2 NO 3 Don't know Of the total acres in this place, how many were owned by 1. Individuals who are NOT citizens of the United States? 2. A foreign held corporation or unincorporated association, or a foreign government? SECTIONS 22 – 27 Not applicable to this form SECTION 28 PERSON COMPLETING THIS REPORT – Please print Name Area code Number					

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

SECTION 22 Was any COMMERCIAL FERTILIZER, including ROCK	PHOSPHATE, or	SECTION 25 EXPENDITURES FO	R ENERGY and petr 1978	roleum products for the	
LIME used on this place during 1978? O22 1 YES — Complete this section	· p	include expenditures paid by you and others for production of crops.	Expenditures	Gallons	Storage capacity on
2 NO - Go to section 23 No	Acres ne fertilized	livestock, and other agricultural products from this place		purchased in 1978	this place (in galtons)
[[[[[[[[[[[[[[[[[[[[[932	in 1978.	966	967	968
1. Acres of cropland fertilized in 1978, other than cropland used only for pastures reported in section 10, item 2b	933	Gasoline for farm business Diesel fuel for the farm	969	970	971
2. Acres of postureland and rangeland fertilized		business	\$ 972	973	974
in 1978 reported in section 10, items 2b and 4		3. LP gas, butane, propane for the farm business (4.5 lbs.=			
3. LIME — tons of lime used and acres on None Tons of lime Which applied (Do not Include land plaster	Acres limed	l gallon)	975	976	977
or gypsym or lime for senitation.)		4. Fuel oil for the farm business	978		
SECTION 23 Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NOTHER PESTICIDES, or OTHER CHEMICALS used on the company of the com	NEMATICIDES, his place in 1978?	5. Natural gas for the farm business	\$ 979		
023 1 YES - Complete this section	•	6. Kerosene, motor oil, grease, for the farm business	\$		
2 NO - Go to section 24		7. Electricity for the farm	980		
Include any materials provided by you, your landlords, or contractors.	For each	business	981		
item listed, report acres only once. If multipurpose chemicals were us acreage treated for each purpose.	ied, report	SECTION 26 SELECTED PRODUC	TION EXPENSES o	aid by you and others	
	Number of acres	for this place in 1978			
Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematicide) to control — None	on Which used	include your best estimates of exp buyers, and others for production of	f crops, livestock, a	ind other agricultural	S ,
a. Insects on hay and other crops		products in 1978. DO NOT INCLU customwork for others; operation o	f nonfarm activities,	businesses, or service:	s:
h. Nematodes' in crops	9 3 7	or household expenses not related	to the farm business		ed expenditures
e Diseases in crops and orchards (blights, smilts	9 38	1. Livestock and poultry purchased -	cattle, calves,	N R.	eo expenditure: Ilars Cents
msts, etc.)	939	hogs, pigs, sheep, lambs, goats, to poults, started pullets, etc	uises, chicks,		
d. Weeds, grass, or brush in crops and pasture	940	Total feed purchased for livestock hay, silage, mixed feeds, concents			
2. Chemicals for defoliation or for growth control		a. Commercially mixed formula fee	ds purchased -		
of crops or thinning of fruit		complete, supplement, concentration (Do not include	ites.		
3. Were any chemicals used for —		ingredients purchased To separately, such as soybean meal, None	ns Tenths Do	iliars Cents	
■ Insect control on livestock and poultry, ncluding treatment of buildings?		cottonseed meal, and urea.)	/10 \$		
	.2 □ No	3. Animal health costs for livestock veterinarian services, serums, vac	and poultry, Include	986 C	1
b. Safriation, todent and bird control, etc.? (Include time for sanitation). 942 1 Yes	≥ No	4. Seeds, bulbs, plants, and frees pur		987	
SECTION 24 MACHINERY AND EQUIPMENT on this place on Decemb (Include only equipment used for agricultural operations)	er 31, 1978 In 1977 or 1978.)	5. Commercial fertilizer purchased — phosphate and gypsum. Heppert cur	all forms, including	tock 988	!
		item 9 below. 6. Agricultural chemicals purchased		· · · · · · · · · □ 3	
Value of ALL machinery and equipment on this place, December 31, When in the profession project value of ALL machinery.	19/0	fungicides, other pesticides, lime, application costs in item 9 below.	etc. Report custom		
	timated market value	7. Hired farm or ranch labor (See Int	ormation Sheet)	990	
and used for the farm or ranch business? Include cars, trucks, tractors, combines, plows, disks, harvos, dryers, pumps, motors, irrigation equipment, dairy equipment 943	Dollars Cents	 Of the hired workers, including family workers, how many — 	tating tree	iniber of workers	
pumps, mores, rrigat to a depriment, vary adulpment including milkers end buik tanks, livestock feeders, gridding and mixing adulpment, etc	! ! !	(1) Worked 150 days or more?	991		
		(2) Worked less than 150 days?	🗍 992		
• SELECTED machinery and equipment on Total number	Of the total, HOW MANY were manufac	8. Contract labor - Include expendito	res primarily for fat	ear, such	i i
this place, December 31, 1978. (Report on this place on December 31, 1978 on 1979 or 1979.) None	tured in the last 5 years (1974–1978): (Number)	as harvesting of truit, vegetables, contract basis by a contractor, cre	w leader, a cooperal	live, etc S	1
944	945	9. Customwork, machine hite and ren equipment - include expenditures			
2. Automobiles	947	for customwork such as grinding a combining, carn picking, drying, s	nd mixing feed, plow ila filling, spraying,	ring,	i i
3. Motortrucks (Include pickups)	949	dusting, fertilizing, etc. (Exclude	cost of cotton ginni	ag/	l Waliota di Albanda
4. Wheel fractors other than garden tractors and motor titlers		SECTION 27 ESTIMATED MARKE Please give your best ESTIMATE	and the state of t	D and BUILDINGS Estimated curre	nt market us.
5, Grain and bean combines,	951	MARKET VALUE of land and buil reported in section 1, items 1, 2,	dings for the acres	of land and	buildings
self-propelled only	953			996	Cents
6. Corn heads for combines	955	All land owned		997	
7, Other corn pickers and picker-shellers	957	3. All land rented or leased TO OTH		998	
8. Cotton pickers (Exclude cotton strippers) 958	959			- <u> </u>	
9. Mower conditioners	961		•		
10. Pickup balers		4			
11. Field forage harvesters, shear bar or flywheel type	963				
FORM 78-A1(5) (4-10-78)		age 6			

FORM 78-A1(I)

INFORMATION SHEET

U.S. DEPARTMENT OF COMMERCE

1978 CENSUS OF AGRICULTURE

GENERAL INFORMATION

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

- The enclosed census report form is being used by farms and ranches throughout the entire United States. Because it is meant for use in all parts of the country, it may contain sections and inquiries which do not apply to you. In this case, mark the "None" or "No" box and go on to the next item or section.
- 2. If You Receive More Than One Report Form If you have multiple farming operations, you should complete a report for EACH SEPARATE and DISTINCT production unit, that is, each individual farm, ranch, feedlot, greenhouse, etc., 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

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 marqin of the report form (or on a separate sheet of paper) that you quit farming or ranching during 1978 and give the approximate date and the name and address of the present operator, if known.

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
- c. 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
- 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 share-cropper 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," "Solf Farm," "Retired," etc., and give the approximate date that

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

d. Mail the form in the return envelope provided.

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

Sections 2-8 - CROPS

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

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

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

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

How to Report Crops Harvested

- 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:

ogs light see	es, segu c	ROPS harvested fro rops, or other crops its three exercises	yn this glace in 1978 a not providesty repor	- nce, pravet ted ⁹
	- Gr /o i			
From the list below enter unit specified with crisp of	~	Acres harvested	Quality Navestee	
olfar ped			6,000	7 7 77 77 77 77
Palchet seal			\$ 400	
	i		i'	i'

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

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

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

Corre	ect entries	Acres	Bushels	Acres irrigated		
Item 3	Wheat	40	1,230			
Item 8	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 home use. 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 interplanted crops harvested.

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

Avocados, Olives, Sugarcane

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

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

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

Section 9 - GROSS VALUE OF CROPS SOLD

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

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

Section 10 - LAND USE

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

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

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

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

Section 12-16 - LIVESTOCK AND POULTRY

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 of Land Management on a per-head or lease basis (such as on wheat pasture). Include poultry (broilers, layers, turkeys, etc.) fed under contract on "This Place." Include livestock and poultry kept on this place for home use, 4H projects, etc.

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

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

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

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

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

Animals Sold from Another Place – Animals owned by you, but held and sold from someone else's place should NOT be included. For example, 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 bought and resold within 30 days. Such purchases and sales are considered "dealer" transactions.

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

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

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

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

Section 19 - TYPE OF ORGANIZATION

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

Individual or Family Operation (Sole Proprietorship) — Defined as a farm or business organization controlled and operated by an individual. Includes family operations that are not incorporated and not operated under a partnership agreement.

Partnership Operation — Defined as two or more persons who have agreed on the amount of their contribution (capital and effort) and the distribution of profits. Co-ownership of land by husband and wife or joint filing of income tax forms by husband and wife does not constitute a partnership, unless the agreement to share contributions, decisionmaking, profits, and liabilities exists. Producing products under contract or under a share rental agreement does not constitute a partnership.

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

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

Section 20 - OPERATOR CHARACTERISTICS AND OCCUPATION

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

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

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

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

Section 22 - COMMERCIAL FERTILIZER

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

Section 24 - MACHINERY AND EQUIPMENT

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

Section 26 - SELECTED PRODUCTION EXPENSES

Include expenses paid by you end 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.

	ARTMENT OF COMMERCE SUREAU OF THE CENSUS	THE	CENSUS B	JREAU	this inquiry is required by law (t IS CONFIDENTIAL. It may be s	een only by	Code). By the same	oyee's and may	ORT TO be used
.c.Nc.		The	law also pro	cal purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. povides that copies retained in your files are immune from legal process. CENSUS USE ONLY					
1978 CENSUS OF	AGRICULTURE	035				037	ľ		
	SAMPLE	039			040	041		42	
		Key ide	entification (ata					
Part 1 - IDENTIFICATION				Par	t II – TYPE OF ORGAN				
Items 1 through 6 - Co 1. State 2. County	3. Segment numb	er 4. A3	Line numbe	ĺΩ	Type C - INCORPORATED UNI STATE LAW	DER	Name		
5. Name - First, Middle initial, Last		Д		3			Mailing address — F	toute: Box/Street	
6. Mailing a. Route/Box/Street address				1	What is the current name and malling address of this corporation?		Post Office	State 2	ZIP code
b. Post Office	ZIP code	-	2. Is this a family-held corporati		177	[_] NO			
7. What is your (the Area code Number	year did	Year	-	 Are there more than 10 stocking Does this corporation have of 			([]) NO ad ranch operation	ns?	
person fisted in item 5) telephane number?	you beg	in to any part	060	1	YES - Enter location(s) as				
9. Do you have a Federal PES - Enter th		p	L	1	(1) Location (State and county)		Name		
Employer identification Number for this farm or NO NO		\top	TT	1 .	(2) Location (State and county)		Name		
Part II - TYPE OF ORGANIZATIO	······································]	5. During the past two years,		Name		
Mark (X) type of organization as shown in column for that type. Complete only one part of this pag of questionnaire relate only to the specific opera	e. Date reported for subse				has this farm or ranch used any name or address other than the current				
Type A - INDIVIDUAL OR FAMILY	Name	·········		-	corporation name and mailing address?	☐ NO	Mailing address - Route/Box/Street		
OPERATION (Sole proprietorship) 1. For business purposes, YES	Mailing address - Route/6	Box/Stree	· l	-		Post Office	State	ZIP code	
is this farm or ranch operated under any name NO other than your own?	Post Office	State	ZIP code	\dashv	6. Does this farm or ranch empto manager who is primarily in cl				
				1	the farm or ranch operations? 7. Who is the bired manager?	. 1 [] YES - Go to 2 [] NO - SKIP to Item 8			
name tone you sandymit	Name				Person named in part 1,				
mail at any address NO other than the one i have listed?	Mailing address - Route/E	3ox/Stree	et .	1	item 5 - SKIP to page 2 Other - Specify and end interview		Name		
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?	7	Mailing address — Route! Box/Street		
manager who is primarily in charge of the farm or ranch operations?	YES - Go to 2] NO - S	KIP to page 2	1	Person named in part I, item 5 - SKIP to page 2	Post Office	State	ZIP code	
[Name		-3	1	Other - Specify and end interview	<i>></i>			
i cisum numou in part x;	Mailing address - Route/E	3ox/Stree	1	巾	Type D - OTHER ORGANIZATI				
item 5 - SKIP to page 2 Dther - Specify and SKIP to page 2	Post Office	State	ZIP code	4	995	ntrois the operations of this farm or ranch unit?			
Type 8 - PARTNERSHIP OPERATIONS	Name	<u> </u>	<u>i</u>	-	Estate Trust	4 ["] State (Govern	or Local 6 [] Other - Specify, roment		
(include family partnerships) 2 1. For business purposes,	Mailing address - Route/E	201/2100		4		s [] Feder	ral Government		
address is used for this				4	2. What is the name and mailing address of		Name		-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Post Office	State	ZIP code		this organization?				
How many partners are there? Must is the name and mailing address of	Partners each partner?						Post Office	State	ZIP code
Person named in part 1, item 5 - Do i					3. What is the name and mailing		Name	·····	
2.	b. *			_	address used for this farm or ranch operation?		Mailing address - Route/Box/Street		
Name Marling address - Route/Box/Street	Name Mailing address - Ro	ute/Boy/	Street				Post Office	State	ZIP code
Post Office State ZIP code		State	ZIP code	-	4. During the past two years,	YES>	Name		
4. Does this partnership employ a hired man			//	\dashv	has this farm or ranch used any other hame or mailing address?	NO	Mailing address -	Route! Box Street	
primarily in charge of the farm or ranch o	perations? 2 NO						Post Office	State	ZIP code
5. Who is the hired manager? Person named in part 1, item 5 - SKIP to page 2	Name				 Does this organization employ manager who is primarity in ci the farm or ranch operations? 	harge of	1 YES - Go to	2 () NO -	SKIP to
Other - Specify and and Interview-	Mailing address — Route/E	ox/Stree	1	1	6. Who is the hired manager?		Item 6	***	item 7
Person named in part 1, item 5	Post Office	State	ZIP code]	Person named in part 1, item 5 — SKIP to page 2 Other — Specify and				
SKIP to page 2 Other partner — Specify and end Interv	riew _	•			7. Who is primarily in charge of 1	the	Name		
	Name			1	farm or ranch operations? Person named in part 1, item 5 — Go to page 2	ж	Mailing address - A	Route!Box!Street	
Person named in part 1, item 5 - SKIP to page 2 Other - Specify and end interview	,			1	Other - Specify and end Interview	Post Office	State	ZIP code	