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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, custom-work, and other agricultural services for others such as plowing, planting, harvesting, etc. Entries were deleted when duplicate information was reported in the 1978 Census of Agricultural Services, or when entries were large enough to consider the agricultural services part of a farming operation was generally considered a separate operation when income from agricultural services was greater than \$500,000, or when it was \$10,000 or more and greater than the value of agricultural products sold. Data for establishments primarily engaged in agricultural services are published separately in volume 3.

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

Fertilizer and lime—Detailed inquiries on acreage fertilized and tonnage of fertilizer applied by crop, which were included on the 1974 census form, were not collected in 1978. Data collected for 1978 are limited to total acres of cropland fertilized excluding cropland used only for pasture, and total acres of pastureland and rangeland fertilized. Data on lime use were requested in both 1978 and 1974. Land fertilized and limed data were collected from a sample of farms in 1978. Total acres of 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. Writein crops coded as "all other" were reviewed and assigned a specific code when possible. Crops not assigned a specific code were left in the appropriate "all other" category.

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

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

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

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

The "acres of vegetables harvested" in 1978 and 1969 was the summation of the acres of individual vegetables harvested, but in 1974 it was the total land used for vegetable crops. For "land used for vegetable crops," the acres were to be reported only once even though two or more harvests of a vegetable or more than one vegetable were harvested from the same acres.

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

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

"See Text" References

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

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

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

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

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

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

Market value of agricultural products sold—This item represents the gross market value, before taxes and expenses, of all agricultural products sold in the œnsus 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 s2,500 and over are included in the \$2,500 and over are included in the s2,500 and over are included in the \$2,500 to \$4,999 sales group.

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

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

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

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

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

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

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

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

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

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

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

FARM CLASSIFICATIONS

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

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

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

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

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

Full owners, who operate only land they own.

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

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

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

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

The classifications used were:

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

Partnership operation, including family partnership.

Corporation, including family corporation.

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

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

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

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

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

A followup study of the 1969 data indicated that a sizable number of farms were incorrectly reported as corporations, especially in the Southern States. The 1974 survey was used to identify and correct the misreporting of corporations in that census. In the 1978 census, some reports incorrectly had both individual or family operation (sole proprietorship) and family held corporation indicated. These reports were reviewed during the processing phase and resolved based on whether or not the respondent operated under a corporate name, had reported as a corporation in the 1974 census, or was shown to be a corporation on one or more of the administrative records used in developing the census mail list.

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

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

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

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

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

All farms in the 1978 census were classified by SIC. In the 1974 census, farms with sales of less than \$2,500 were not classified by SIC. In 1978, those agricultural producers having no sales reported were retained as farms and classified as general livestock farms in industry 0291 if livestock or pasture were reported or as general crop farms in industry 0191. Characteristics of all farms by selected SIC groupings are shown in State tables 11 and 35. Additional and more complete 1978 data for various SIC classifications are published in volume 2, part 8.

UNPUBLISHED DATA

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

Cash grain farms (011) Field crop farms except cash grain farms (013) Cotton farms (0131) Tobacco farms (0132) Sugar crop, Irish potato, hay, peanut, and other field crop farms (0133) Vegetable and melon farms (016) Fruit and tree nut farms (017) Horticultural specialty farms (018) General farms, primarily crop (019) Livestock farms except dairy, poultry, and animal specialty (021)Beef cattle farms, except feedlots (0212) Dairy farms (024) Poultry and egg farms (025) Animal specialty farms (027) General farms, primarily livestock (0291)

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

Farms by Size of Farm: 1978 and 1974 Acreage and Value of Owned and Rented Land: 1978 Farms by Acres of Cropland Harvested: 1978 and 1974 Place of Residence of Operator by Occupation and Off-Farm Work: 1978 Hired Farm Labor by Number of Hired Workers: 1978 Farms by Expenses for Hired Farm or Contract Labor: 1978 Broilers Sales by Number Sold Per Farm: 1978 Cows and Heifers That Had Calved-Inventory by Number Per Farm: 1978 Beef Cows Inventory by Number Per Farm: 1978 Milk Cows Inventory by Number Per Farm: 1978 Cattle and Calves Inventory by Number Per Farm: 1978 Cattle and Calves Sales by Number Sold Per Farm: 1978 Fattened Cattle Sales by Number Sold Per Farm: 1978 Hogs and Pigs Inventory by Number Per Farm: 1978 Hogs and Pigs Sales by Number Sold Per Farm: 1978 Feeder Pigs Sales by Number Sold Per Farm: 1978 Other Hogs and Pigs Sales by Number Sold Per Farm: 1978 Sheep and Lambs Inventory by Number Per Farm: 1978 Sheep and Lambs Sales by Number Sold Per Farm: 1978

Data similar to that shown in State table 28 for the acreages of crops harvested and production by acreage size have been summarized at the county level, but have not been tabulated. These summaries can be tabulated at a minimal cost depending on the detail of data requested.

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

NONSAMPLING ERRORS

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

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

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

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

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

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

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

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

CENSUS COVERAGE

Although a complete and fully accurate count of farms, farmland, and farm production is the aim of each nationwide census of agriculture, the complex structure of America's agriculture makes this aim difficult to achieve. Among the complexities are the many places to be included, the variety of arrangements under which farms are operated, the continuing changes in the relationship of operators to the farm operated, the expiration of leases and the initiation or renewal of leases, the problem of obtaining a complete list of agricultural operations, the difficulty of locating and identifying some types of farms, the operator's absence from the farm during the data collection period, and the operator's opinion that part or all of the operation does not qualify and should not be included in the census.

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

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

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

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

STATISTICAL ADJUSTMENTS

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

Nonresponse

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

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

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

Direct Enumeration Sample

Because of undercoverage problems with the mail list for the 1969 and 1974 censuses, a direct enumeration area sample was included to supplement the mail list for the 1978 census. Enumeration district maps and data from the 1970 Census of Population and Housing were used to construct the sampling frame from which the direct enumeration sample was selected. The frame was stratified by State and by a farm density ratio (the ratio of farm households to total households). In this State, the selected sample consisted of 116 segments. The expected number of farms per segment varied by strata from none in residential areas to 12 in intensive farm areas and averaged about 10 farms. Farms enumerated in the direct enumeration sample were matched to the mail list and the data for the unmatched farms were weighted by the reciprocal of the probability of selection for the segment to make State estimates for farm operations not represented on the mail list.

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

Item	Percent of total
Farms	14.2
Land in farms	11.6
Value of agricultural products sold	9.1
Harvested cropland	11.3
Corn for grain or seed acres	11.4
Wheat for grain acres	9.5
Inventory:	11.6
Cattle and calves	2.2
Hens and pullets of laying age	9.9
Hogs and pigs	9.9

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 fer	ins	Farms with sales of	E \$2,500 or more
Itom	Quantity	Standard error (percent)	Quantity	Standard error (percent)
Farms	102,963	0.8	87,723	0.3
Land in farmsacres	28,678,829	.3	27,428,396	.1
Harvested croplandfarms	95,008	.8	84,163	.3
acres.	19,198,754	.2	22,131,458	.2 .7
Irrigated landfarms	2,128	4.6	1,888	.7
Agricultural products soldfarms	271,898 102,963	.8 .8	270,397 87,723	.8 .3
\$1,000	4,542,566	.0	4,521,833	.2
Cropsfarms.	79,371	.5	71,884	.2 .3 .2
\$1,000	2,081,384	.2	2,072,776	.2
Livestock, poultry, and their productsfarms \$1,000	71,200 2,461,182	.9 .3	62,813 2,449,057	.4 .3
	2,401,102		2,447,057	
Value of machinery and equipmentfarms	102,909	.8	87,827	.3
Average value of land and building our fur	4,620,656	.5	4,490,562	.5
Average value of land and buildings per farm	253,137	.5	285,965	.4
acres.	63,539 5,797,599	.4 .2	60,459 5,763,919	د. د
bushels	571,555,567	.2	569,569,986	.3 .2 .2 .3 .3 .3 .3 .3
Wheat for grainfarms	23,674	.4	22,887	.2
acres	2,479,637	.3	2,465,960	.3
bushels Soybeans for beansfarms	80,982,809	.3	80,716,759	.3
soybeans for beansatms	39,258 3,742,959	.3 .3	38,433 3,732,947	.3
bushels	123,050,078	.4	122,828,920	.3
Cattle and calves inventoryfarms	56,183	.9	49,843	.5
number.	3,301,704	.4	3,232,031	.4
Cattle and calves soldfarms	54,573	.6	50,079	
number	1,872,748	.7	1,852,290	.7
\$1,000	769,289	.7	763,579	.4 .7 .7 .6
Hogs and pigs inventoryfarms	26,765 4,130,975	1.4	24,427 4,086,914	.6
Hogs and pigs soldfarms.	27,315	1.3	25,266	.5
number \$1,000	6,697,327 579,980	.7 .4	6,652,321 577,167	.7
Sheep and lambs inventoryfarms.	4,869	2.8	3,939	.5
number.,	244,752	1.3	222,176	.9
Sheep and lambs soldfarms	4,620	.5	3,899	.5
number.	214,427	1.4 3.6	201,233	· 1.5
Hens and pullets of laying age inventory	9,224 9,948,861	1.4	6,806 9,843,222	.4 1.4
Hens and pullets of laying age soldfarms.	3,025	4.5	2,567	.6
number	7,929,035	1.4	7,903,685	1.4
Commercial fertilizer usedfarms	75,178	.5	70,291	.3
acres	13,344,587	.4	13,239,209	.4
Commercial fertilizer purchasedfarms \$1,000	76,639	.5	71,549 316,143	.3 .5
Agricultural chemicals purchasedfarms.	318,172 74,281	.5	69,744	.3
\$1,000.	123,711	.6	122,949	.6
Chemicals used on crops for insect controlfarms	23,029	1.2	21,825	1.0
acres	3,507,346	1.1	3,487,961	1.1
Chemicals used on crops for disease controlfarms acres	2,354 382,674	3.5 3.2	2,125 380,368	3.6 3.2
Generation of the second secon	99,227	.8	84,804	.4
Gasoline purchasedfarms 1.000 gallons	174,766	.0	(NA)	.4 (NA)
\$1,000	103,268	.5	100,541	.5
Diesel fuel purchasedfarms.	59,928	.5	57,685	.5
1,000 gallons \$1,000	142,549 66,846	.6 .6	(NA) 66,468	(NA) .6
Livestock and poultry purchased	41,477 482,276	1.5	36,406 478,050	.9 1.1
Feed purchasedfarms	66,143	1.1	57,910	.6
\$1,000	501,557	.8	495,994	.8 .7
Hired farm laborfarms.	44,031	.8	41,563	.7
\$1,000	158,647	.9	156,494	.9

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

Parms reporting item	Standard error (percent)	Farms reporting item	Standard error (percent)
25 farms	20.0 14.0 9.0 6.0	1,000 farms	1.0 .5 (NA)

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

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]	Average valu				<u></u>		Che	Chemicals used on crops for				
County	Average v land and b per f	uildings	Value of mac equip		Acres fert	ilized	Insect of	control	Disease	control		
County	Value	Standard error	Value	Standard error (percent)	Acres	Standard error (percent)	Астев	Standard error (percent)	Acres	Standard error (percent)		
	(dollars)	(percent)	(\$1,000)	(percent)		(percent)		(percent)				
Aitkin	87,456	3.6	15,254	5.8	19,297	8.0	6,180	12.0	7,274	16.0		
Anoka	147,319	5.3	17,990	6.7	31,271	9.4	6,483	13.0	1,224 1,642	.0 44.0		
Becker	138,909	3.5	43,480	5.7 6.1	149,788 43,790	5.4	25,693 5,970	13.0 18.0	837	13.0		
BeltramiBenton	110,170 132,924	4.3 4.5	20,343 35,277	6.6	76,004	5.8	14,002	18.0	(D)	(D)		
Big Stone	341,815	5.2	43,109	7.9	163,620	5.7	27,820	17.0	3,436	61.0		
Blue Earth	394,531	2.8	84,159	3.0	214,434	2.9	95,293	6.8	3,205	33.0		
Brown	309,347	2.5	74,679	3.8	173,159	2.8	54,435	8.7 (D)	496 561	11.0 5.8		
Carlton	85,502 202,034	5.6 4.5	16,418 55,591	8.6 5.2	14,709 77,318	14.0 4.2	(D) 28,325	10.0	1,533	42.0		
	•				-	12.0	-	17.0	740	9.7		
Cass Chippewa	89,159 337,482	4.6 3.2	14,950 65,972	9.1 3.7	22,585 203,811	13.0 3.3	1,138 57,983	17.0	4,718	7.1		
Chisago	143,958	5.0	30,016	6.4	60,679	7.1	8,115	38.0	890	37.0		
Clay	436,438	2.2	78,184	3.9	400,452	2.0	69,475	7.5	19,994	8.9		
Clearwater	97,806	4.1	17,397	6.5	37,071	9.5	7,621	20.0	3,336	15.0		
Cook	69,111	.0	80	.0	16	.0	(D)	(D)	3,460	.0 38.0		
Cottonwood Crow Wing	470,593 90,349	2.1 7.4	76,089 14,986	2.9 9.1	194,388 21,535	2.6	56,359 554	10.0 35.0	5,460	81.0		
Dakota	289,140	3.3	53,378	4.7	139,017	3.5	41,339	7.5	1,563	31.0		
Dodge	396,189	2.9	52,378	4.2	153,044	3.0	64,666	9.9	2,147	24.0		
Douglas	152,156	4.2	45,786	4.2	104,737	5.2	16,233	21.0	3,061	42.0		
Faribault	513,776	2.1	99,825	3.1	241,255	2.4	83,160	8.3	3,373	24.0		
Fillmore	236,714	2.5	79,823	3.0	192,423	3.0	87,521	5.1	1,794	35.0		
Freeborn	352,122	2.4	97,744	3.0	244,045	2.3	94,390	6.7	6,231	26.0		
Goodhue	223,982	2.4	84,408	3.3	183,969	3.4	72,483	6.9	1,577	36.0		
Grant Hennepin	374,650 188,151	3.2 5.1	49,372	6.3 5.0	201,922 40,275	3.3	22,206 16,065	12.0 12.0	3,300 4,798	48.0 17.0		
Houston	187,560	4.0	24,762 49,916	4.3	75,553	3.7	36,442	6.4	2,656	16.0		
Hubbard	96,433	5.8	9,249	7.4	23,405	12.0	8,434	10.0	3,617	22.0		
Isanti	119,749	5.3	24,462	6.0	49,716	8.5	8,362	16.0	2,523	50.0		
Itasca	88,875	6.1	11,551	9.1	9,441	15.0	782	21.0	153	42.0		
Jackson	482,699	2.7	87,419	2.8	219,931	2.5	71,221	7.5	4,531	24.0		
Kanabec	114,613	7.9	17,667	7.2	32,370	11.0	1,824	38.0	524	1.1		
Kandiyohi	273,059	3.5 2.1	82,124	4.0	228,749	4.4	61,189	9.3	3,073	43.0		
Kittson Koochiching	356,170 93,055	6.5	48,543 5,926	8.1	328,783 11,328	12.0	43,129 1,938	10.0 39.0	31,114	10.0		
Lac Qui Parle	277,453	4.0	65,781	4.9	207,974	4.6	46,904	13.0	2,102	42.0		
Lake	65,784	.0	689	.0	300	.0	277	.0	-	.0		
Lake of the Woods	160,296 251,495	7.4 2.6	7,779	6.4 4.8	29,746 115,572	9.4	5,217 37,812	.0	(D)	(D)		
					•	3.4	-	8.5	1,980	40.0		
Lincoln	251,788	5.5	36,669	3.9	131,856	4.9	40,622	12.0	1,110	41.0		
Lyon McLeod	329,047 228,752	3.1 2.5	69,959 66,793	3.9	218,614 153,411	3.3	78,464	9.0	5,855	42.0		
Mahnomen	232,710	3.0	22,321	4.8	89,559	4.3	36,192 17,379	9.5	1,507 1,627	44.0 77.0		
Marshall	292,505	1.8	94,481	2.5	540,224	1.7	90,729	7.0	24,855	6.3		
Martin	533,851	2.0	95,538	2.8	234,010	2.3	103,683	7.3	2,320	41.0		
Meeker	221,920	2.3	65,777	2.9	163,804	3.0	43,719	8.4	3,806	44.0		
Mille Lacs	99,797 109,286	3.9 3.1	22,199 63,109	5.2 4.0	38,096	7.0	8,150	17.0	132	74.0		
Morrison Mower	341,526	2.4	79,512	3.3	131,121 246,369	3.4	19,048 68,906	12.0 8.5	2,191 7,684	43.0 42.0		
		3.0	66,782	4.1	•	1	-		-	T		
Murray Nicollet	350,060 354,852	2.7	59,824	3.2	164,445 134,420	3.8	73,514 44,114	7.8	8,919 1,594	42.0 60.0		
Nobles	375,635	2.4	79,224	3.3	204,841	2.9	67,468	8.5	4,135	60.0		
Norman	479, 897	2.4	62,356	2.5	388,587	1.9	36,140	11.0	6,413	33.0		
01msted	284,861	2.4	59,974	3.9	153,285	2.9	70,460	6.3	1,117	42.0		
Otter Tail	153,327	3.1	115,048	2.1	278,802	2.6	25,871	8.5	11,665	22.0		
Pennington Pine	211,267 109,339	4.0 4.5	34,663 30,514	5.0	199,143 49,567	3.3	31,355	22.0 19.0	(D)	(D)		
Pipestone	296,882	4.1	43,158	4.1	132,934	3.7	3,699 45,434	8.8	665 5,460	26.0 36.0		
Polk	363,077	1,5	135,992	2.0	733,111	1.2	129,206	2.8	73,889	6.6		
Pope	218,633	4.4	56,905	4.4	150,560	5.0	45,972	11.0	3,882	39.0		
Ramsey	186,138	.0	2,409	.0	2,080	.0	382	.0	288	.0		
Red Lake	273,158	4.8	24,119	5.9	135,159	5.1	25,787	18.0	10,253	12.0		
Redwood	358,587	2.8	102,772	3.2	242,980	3.2	67,086	10.0	1,210	64.0		
Renville	436,594 236,178	2.5 3.6	117,223 66,737	2.4	303,199 125,947	2.0	88,536	6.5	12,631	18.0		
Rock	309,580	4.0	55,671	4.1	125,429	3.9	50,852 67,400	8.5	1,430 1,060	19.0		
Roseau	192,741	2.2	61,127	2.7	305,387	2.4	27,134	11.0	4,321	48.0 1.4		
St. Louis	107,617	19.0	17,042	4.9	12,861	12.0	5,440	29.0	10			
Scott	243,889	5.7	41,541	4.8	66,689	8.2	30,016	12.0	1,910	26.0		
Sherburne	171,586	5.0	22,525	5.4	58,287	6.3	13,993	13.0	3,676	15.0		
Sibley	313,514	2.6	88,129	3.9	194,890	3.8	56,001	9.4	2,308	48.0		
Stearns Steele	149,592 278,462	2.0	136,920 50,871	2.6	255,094	2.8	69,085	6.9	2,992	52.0		
Stevens'	374,106	3.3	51,495	3.8 4.1	143,177 226,106	3.4	61,009	7.3	5,087	34.0		
Swift	303,950	3.0	62,801	3.7	240,489	2.6	51,912 88,963	9.7	(D)	(D)		
Todd	117,074	4.6	59,758	4.2	124,536	5.2	23,507	11.0	3,684 4,655	30.0 20.0		
Traverse	378,418	2.9	41,844	4.1	233,024	3.1	31,528	8.3	2,706	20.0		
	·		. <u> </u>	•		·	- -	1	-,	-4.4		

	Average va		Value of mac	ninery and			Cher	nicals used	on crops for-	crops for		
County	land and bu per fa		equipm		Acres fert	ilized	Insect c	ontrol	Disease c	ontrol		
	Value (dollars)	Standard error (percent)	Value (\$1,000)	Standard error (percent)	Acres	Standard error (percent)	Acres	Standard error (percent)	Acres	Standard error (percent)		
Wabasha Wadena Waseca Washington Watonwan Wilkin Winona	239,432 98,557 393,983 290,746 438,966 567,741 233,989	4.4 6.8 3.2 4.8 3.0 3.1 2.7	47,331 15,972 63,370 27,421 55,723 49,606 59,240	4.5 6.2 4.4 5.8 4.4 3.9 3.5	101,303 39,796 142,549 64,417 140,132 312,945 109,811	4.7 10.0 3.6 7.8 3.6 3.1 3.9	37,876 1,368 56,110 20,785 48,685 75,953 41,261	8.6 32.0 7.4 13.0 9.3 7.4 7.2	610 3,789 3,153 2,050 3,432 4,238	55.0 .0 51.0 9.3 51.0 33.0 25.0		
Wright Yellow Medicine	172,073 309,178	2.8 3.2	68,724 71,657	4.2 4.0	118,419 215,681	4.3 3.4	35,314 57,198	10.0 11.0	1,061 890	50.0 56.0		
Farms not on mail list	70,162	23.0	41,699	26.0	29,959	46.0	5,222	89.0		.0		
	Gasol	.ine	Diesel	fuel	Farm producti Livestock an purch	nd poultry	Fe	ed	Hired far	m labor		
County	Expense	Standard error		Standard error	Expense	Standard error	Expense	Standard error	Expense	Standard error (percent)		
Aitkin. Anoka. Becker. Beltrami. Benton. Big Stone. Blue Earth. Brown. Carlton. Carlton.	(\$1,000) 401 412 1,189 469 797 805 1,726 1,998 361 1,079	(percent) 4.6 9.1 4.5 5.9 5.9 4.8 3.0 3.8 7.3 3.6	(\$1,000) 155 233 806 286 233 787 1,126 1,026 106 516	(percent) 8.7 5.6 9.8 9.8 9.8 8.9 3.9 4.1 12.0 10.0	(\$1,000) 1,145 739 2,913 915 3,424 4,025 12,601 9,317 974 3,396	(percent) 8.3 4.9 5.0 11.0 6.6 11.0 4.8 6.5 18.0 20.0	(\$1,000) 3,394 1,860 7,262 1,491 8,123 2,871 6,869 8,471 1,682 5,214	(percent) 5.0 4.3 4.6 17.0 6.1 7.2 6.6 4.9 14.0 6.0	(\$1,000) 461 1,728 2,034 634 1,147 862 2,245 1,641 363 2,034	(percent) 5.5 4.7 6.4 12.0 13.0 10.0 9.3 7.1 18.0 9.1		
Cass. Chippeva. Chisago. Clay. Clearwater. Cook. Cottonwood. Crow Wing. Dakota. Dodge.	419 1,340 538 1,888 500 2 1,475 440 1,057 1,066	8.3 4.0 5.5 5.6 6.9 .0 2.6 6.7 3.5 3.9	136 1,081 278 1,699 258 (D) 1,074 66 - 758 754	9.2 5.2 10.0 3.7 8.9 (D) 4.0 10.0 8.8 5.6	1,177 5,176 1,906 3,622 1,689 1 17,067 971 5,198 6,125	17.0 12.0 27.0 15.0 8.0 .0 3.0 9.8 6.1 8.2	2,008 3,446 2,783 5,433 3,304 3 11,011 4,183 4,477 7,355	8.9 10.0 4.6 4.2 3.3 .0 4.5 2.9 4.2 3.0	297 1,457 1,408 3,795 786 (D) 2,262 671 2,678 2,125	11.0 7.7 8.4 3.7 5.1 (D) 6.9 11.0 5.9 7.2		
Douglas. Faribault. Fillmore. Freeborn. Goodhue. Grant. Hennepin. Houston. Hubbard. Isanti.	1,147 1,941 1,961 1,847 1,737 780 683 1,149 276 508	3.9 3.0 2.9 3.0 3.5 5.5 4.9 4.0 5.5 5.5	593 1,472 997 1,613 933 890 304 476 157 198	6.2 3.0 4.2 5.1 6.3 5.0 7.5 6.1 11.0 11.0	2,319 13,036 11,478 10,206 5,496 3,035 1,324 8,161 744 1,709	13.0 2.7 6.6 6.0 8.1 14.0 13.0 7.7 12.0 19.0	3,950 7,341 14,093 10,025 8,821 1,921 2,012 6,430 1,054 4,027	4.6 3.2 4.0 5.5 4.5 5.9 4.4 4.6 23.0 10.0	1,460 3,072 3,145 3,219 3,021 1,034 2,511 1,955 312 701	9.6 8.0 6.8 6.7 8.3 5.5 6.1 12.0 6.3 11.0		
Itasca Jackson Kanabec Kandiyohi Kittson. Koochiching Lac Qui Parle Lake of the Woods La Sueur.	246 1,833 401 1,879 1,396 167 1,210 19 181 1,230	7.8 3.0 6.0 3.7 3.9 6.2 4.6 .0 5.8 3.9	86 1,252 115 1,318 1,204 63 947 (D) 141 767	13.0 4.2 13.0 6.1 3.4 9.0 6.1 (D) 5.4 8.1	185 17,996 2,027 15,226 1,053 387 5,179 7 454 5,435	20.0 4.5 17.0 4.0 12.0 13.0 9.7 .0 16.0 12.0	567 10,351 2,199 19,403 369 785 4,679 99 191 4,446	23.0 4.0 9.7 2.5 16.0 13.0 9.8 .0 12.0 4.8	342 1,817 546 3,741 2,520 211 924 (D) 151 1,977	15.0 6.5 18.0 7.6 2.0 11.0 12.0 (D) 7.3 5.5		
Lincoln. Lyon. McLeod Mahnomen. Marshall. Martin. Meeker. Mille Lacs. Movrison. Mower	1,056 1,896 1,614 455 2,453 2,059 1,437 561 1,606 1,832	5.4 4.5 4.4 2.2 3.2 3.4 5.5 3.2 2.8	692 1,323 692 417 2,228 1,481 862 128 441 1,109	6.2 6.1 4.4 5.6 2.1 3.6 4.3 12.0 5.5 3.7	7,768 17,587 3,399 1,083 1,123 11,791 5,881 1,275 5,621 9,867	13.0 4.2 8.5 12.0 13.0 5.3 8.1 9.8 5.0 5.5	4,403 9,157 5,249 762 1,001 8,582 12,914 3,069 16,124 8,277	7.6 5.5 9.0 10.0 3.9 2.9 5.2 2.0 5.3	1,153 1,906 1,814 744 3,447 2,996 2,557 555 1,518 2,863	10.0 10.0 8.7 9.0 3.0 5.3 6.5 15.0 7.8 6.5		
Murray. Nicollet. Nobles. Norman. Olmsted. Otter Tall. Pennington.	1,514 1,179 1,714 1,461 1,395 2,777 742	4.4 4.5 4.4 1.9 3.6 2.1 6.2	1,114 823 1,246 1,349 756 1,484 722	4.3 6.2 3.5 2.6 4.7 2.9 5.4	13,979 5,722 16,836 1,762 8,665 9,332 1,268	8.1 6.3 4.8 6.3 7.4 5.7 3.4	7,610 6,077 11,786 1,176 6,065 16,006 1,496	8.0 9.4 5.9 10.0 3.9 2.9 5.1	1,570 1,592 2,050 2,812 2,448 4,275 912	9.1 8.4 8.7 5.0 6.1 6.3 7.6		

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

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

	Farm production expenses											
County	Gasoline		Diesel fuel		Livestock and poultry purchased		Feed		Hired farm labor			
	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)	Expense (\$1,000)	Standard error (percent)		
Pine	752	3.8	244	6.9	2,210	13.0	5,708	6.8	1,299	10.0		
Pipestone	979	3.8	639	4.9	9,709	7.2	5,092	6.2	774	9.5		
Polk	3,393	1.7	2,992	2.0	4,723	2.2	4,185	3.6	8,751	3.2		
Pope	1,319	4.7	844	8.7	3,124	17.0	3,160	7.1	1,368	7.3		
Ramsey	96	.0	46	.0	103	.0	141	.0	1,710	.0		
Red Lake	620	6.1	517	6.7	579	11.0	1,532	9.6	731	8.7		
Redwood	2,190	3.4	1,538	3.0	18,286	4.7	7,508	5.2	2,485	10.0		
Rice	2,232	3.2	1,922	2.9	11,343	7.7	8,203	5.0	3,460	5.0		
Rock	1,502	3.7	597	5.1	4,955	6.8	8,918	4.3	1,674	5.9		
ROCK	1,252	5.9	807	6.0	18,166	4.7	9,095	4.1	1,496	11.0		
Roseau.	1,326	2.9	1,125	3.1	1 226				1			
St. Louis	448	5.6	104	8.9	1,236 628	7.7	3,363	6.5	1,582	5.1		
Scott	921	4.3	469	7.9	3,022	12.0	2,421	9.3	714	9.0		
Sherburne	551	6.6	278	11.0	2,535	7.4	3,011 4,908	6.9 7.8	1,836	15.0 9.3		
Sibley	1,691	3.9	1,157	4.4	8,864	6.6	11,087	2.6	2,052 1,840	8.7		
Stearns	3,320	2.4	1,464	4.7	11,471	5.6	30,500	2.7	5,017	5.4		
Steele	1,302	4.6	630	4.7	3,938	7.3	4,921	8.2	1,490	11.0		
Stevens	1,008	4.3	1.015	4.2	13,268	4.3	5,325	3.3	1,309	8.1		
Swift	1,166	3.5	1,137	3.9	5,858	7.0	6,746	4.0	1,928	7.1		
Todd	1,617	3.7	554	6.6	4,914	7.8	10,572	5.2	2,131	9.4		
Traverse	841	3.2	750				-		•			
Wabasha	1,192	4.7	482	3.4	2,177	3.8	797	8.8	1,337	7.1		
Wadena	430	6.5	122	15.0	2,723 1,803	8.1 7.9	6,080	6.2	2,087	6.6		
Waseca	1,119	3.8	904	7.4			5,081	3.5	610	6.4		
Washington	648	5.3	293	6.4	3,335 1,677	16.0 8.0	3,913	7.9	1,599	8.8		
Watonwan	1,004	4.7	685	6.1	8,134	7.4	1,650	9.2	3,267	2.5		
Wilkin	1,120	3.4	1,094	3.2	1,326	25.0	4,507	6.8	1,287	7.1		
Winona	1,251	3.4	636	4.2	6,477	9.5	1,925 10,491	9.1	1,852	5.9		
Wright	1,589	3.5	684	5.5	2,966	12.0	6,859	3.4	2,365	4.9		
Yellow Medicine	1,620	4.1	1,238	4.9	7,950	6.3	4,753	4.3	2,118	10.0 13.0		
Farms not on mail list	468	27.0	107	56.0	3,978	67.0	5,352	49.0	76	56.0		

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

]	Defin	ition used f	or 1974 and 19	78	Definitio	on used for 1	959, 1964, and	1969	Operations exc	luded by cu 1959 d	urrent definition b	ut not by
	Farm	5	Value of pr (\$1,i	oducts sold 000)	Form	15	Value of pr (\$1,0		Farms		Value of prod (\$1,000	
	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974
Minnesota	102 963	98 537	4 542 566	3 469 923	112 357	102 178	4 544 756	3 470 933	9 394	3 641	2 190	1 010
Aitkin Anoka Becker Beltrami Big Stone Bige Earth Brown Cartton Carver	735 637 1 389 809 1 054 591 1 588 1 465 714 1 166	711 570 1 391 722 1 063 605 1 612 1 378 603 1 146	14 149 16 215 42 480 12 718 35 980 30 171 97 019 76 629 9 448 42 819	9 563 11 040 33 906 6 555 20 905 25 701 71 783 60 596 5 733 30 220	827 749 907 1 102 601 1 638 1 500 801 1 249	756 638 1 464 770 1 107 620 1 679 1 403 641 1 192	14 171 16 244 42 503 12 743 35 987 30 174 97 040 76 644 9 469 42 841	9 574 11 059 33 923 6 566 20 913 25 708 71 805 60 604 5 739 30 235	92 112 80 98 48 10 50 35 87 83	45 68 73 48 44 15 67 25 38 46	22 29 23 25 8 3 22 14 21 22	11 19 17 11 8 7 22 8 6 15
Cass Chipagewa Clay Clay Clarwater Cook Cottonwood Cottonwood Crow Wing Dakata Dakage	702 1 074 1 082 1 155 741 9 1 198 622 1 073 981	689 1 059 1 002 1 211 751 5 1 151 604 1 015 1 015	10 388 55 292 22 520 72 739 15 590 27 91 934 13 807 57 568 61 697	6 544 49 150 13 920 75 782 9 728 6 63 109 5 825 38 723 40 153	780 1 103 1 200 1 206 800 14 1 214 716 1 151 1 025	733 1 075 1 083 1 247 795 6 1 173 665 1 073 1 057	10 404 55 302 22 548 72 753 15 597 28 91 940 13 824 57 592 61 712	6 555 49 158 13 939 75 791 9 741 6 63 115 5 836 38 740 40 166	78 29 118 51 59 5 5 16 94 78 44	44 16 81 36 44 1 22 61 58 42	15 11 28 13 7 (Z) 6 17 25 15	11 8 19 9 13 - 6 11 17 13
Dougkas Faribault Fillmore Goodhue Grant Hennepin Houston Hubbard Isanti	1 368 1 419 1 913 1 634 1 952 684 930 1 177 519 924	1 469 1 424 1 930 1 664 1 917 707 907 1 175 484 889	34 881 107 645 96 908 108 089 85 032 36 919 28 515 50 843 8 653 19 601	29 723 87 206 66 632 79 285 59 345 23 345 22 423 34 906 4 788 12 606	1 457 1 452 1 992 1 696 2 062 699 1 086 1 222 587 1 041	1 526 1 449 1 984 1 734 1 982 721 990 1 215 524 975	34 907 107 656 96 934 108 113 85 065 36 923 28 572 50 856 8 663 19 627	29 741 87 211 66 646 79 311 59 363 33 949 22 450 34 918 4 792 12 629	89 33 79 62 110 15 156 45 68 117	57 25 54 70 65 14 83 40 40 86	26 11 26 24 32 4 57 13 11 25	18 5 14 26 18 4 27 12 4 23
Itasca Jackson Kandiyohi Kittson Kittson Kittson Koochiching Lac Qui Parle Lake of the Woods La Sueur	572 1 329 808 1 533 680 317 1 152 53 260 1 155	501 1 315 825 1 575 713 274 1 249 31 246 1 219	5 105 101 895 16 454 103 031 38 539 3 636 53 438 313 4 974 53 929	3 420 80 018 9 977 73 331 37 402 2 082 49 392 212 3 588 37 412	661 1 362 887 1 607 700 350 1 168 69 274 1 215	531 1 341 877 1 624 729 291 1 271 34 255 1 261	5 124 101 906 16 472 103 048 38 550 3 644 53 443 315 4 976 53 949	3 425 80 026 9 988 73 343 37 404 2 088 49 404 213 3 590 37 424	89 33 79 74 20 33 16 16 16 14 60	30 26 52 49 16 17 22 3 9 42	18 10 18 16 11 8 5 2 2 20	5 8 11 12 2 6 12 1 2 12 12
Lincoln Lyon McLeod Montomen Mortin Metker Mille Lacs Morrison Mower	917 1 191 1 564 454 1 585 1 476 1 395 1 016 2 070 1 599	932 1 181 1 577 476 1 652 1 524 1 421 987 2 041 1 556	39 774 82 292 59 575 13 676 69 420 110 421 70 883 21 796 61 765 88 765	30 678 64 303 46 255 10 460 63 907 96 462 50 779 14 529 35 476 61 622	940 1 220 1 623 470 1 625 1 500 1 446 1 110 2 173 1 645	953 1 212 1 615 490 1 713 1 555 1 461 1 053 2 097 1 624	39 788 82 302 59 596 13 679 69 434 110 434 70 898 21 817 61 782 88 778	30 688 64 313 46 269 10 464 63 924 96 471 50 793 14 543 35 487 61 645	23 29 59 16 40 24 51 94 103 46	21 31 38 14 61 31 40 66 56	14 9 22 3 14 13 14 20 17 13	10 10 14 4 17 9 14 14 11 23
Murray Nicollet Norman Olmsted Other Tail Pannington Pinestone Pipestone Polk	1 224 1 011 1 479 909 1 556 3 406 703 1 292 847 1 970	1 228 940 1 421 984 1 570 3 555 785 1 227 794 2 049	76 311 62 171 97 054 54 947 69 967 107 109 23 123 26 717 43 991 129 880	58 602 44 937 71 498 49 889 47 459 86 089 16 336 17 090 35 437 122 355	1 248 1 043 1 501 937 1 640 3 574 751 1 404 860 2 037	1 259 958 1 453 1 013 1 624 3 661 834 1 278 807 2 103	76 319 62 183 97 068 54 956 69 990 107 147 23 135 26 743 43 995 129 892	58 607 44 942 71 509 49 898 47 476 86 116 16 345 17 100 35 441 122 369	24 32 22 88 168 48 112 13 67	31 18 32 29 54 106 49 51 13 54	8 12 14 9 23 39 12 26 3 12	5 5 11 9 17 27 9 10 4 14
Pope	1 069 108 501 1 674 1 788 1 429 1 019 1 337 1 004 997	1 095 80 481 1 655 1 868 1 391 927 1 307 798 975	42 822 4 773 17 741 105 979 115 717 63 267 69 609 41 698 10 088 32 318	34 236 3 124 11 455 85 092 94 486 41 105 54 129 26 194 6 976 22 048	1 102 134 510 1 700 1 811 1 504 1 039 1 392 1 199 1 068	1 117 98 499 1 679 1 907 1 442 944 1 345 876 1 042	42 830 4 782 17 744 105 986 115 729 63 289 69 615 41 710 10 134 32 337	34 242 3 129 11 460 85 101 94 497 41 122 54 132 26 207 6 994 22 067	33 26 9 26 23 75 20 55 55 195 71	22 18 18 24 39 51 17 38 78 67	9 9 3 12 22 7 12 47 19	6 5 9 11 17 3 13 18 19
Sherburne	682 1 483 3 319 1 148 738 1 078 2 123 562 1 106 759	667 1 491 3 383 1 199 764 1 072 2 147 609 1 046 746	25 860 80 521 144 730 56 425 55 179 64 546 58 623 32 318 53 111 20 571	15 650 58 424 98 826 42 340 48 767 62 492 36 022 34 568 33 349 13 880	790 1 525 3 406 1 194 746 1 105 2 248 572 1 141 813	733 1 522 3 466 1 237 778 1 088 2 206 611 1 090 787	25 889 80 537 144 753 56 442 55 183 64 556 58 648 32 321 53 123 20 580	15 671 58 435 98 848 42 355 48 773 62 498 36 036 34 569 33 364 13 890	108 42 87 46 8 27 125 10 35 54	66 31 83 38 14 16 59 2 44 41	29 16 23 17 4 9 25 3 12 9	21 11 22 15 6 6 14 1 15 10
Waseca Washington Wathington Wilkin Winona Wright Yellow Medicine	950 777 922 656 1 221 2 081 1 312	979 709 954 709 1 233 2 104 1 431	56 325 26 883 61 026 46 604 64 428 54 940 69 813	42 043 20 470 49 474 53 913 45 673 41 477 62 915	988 936 943 664 1 269 2 292 1 348	1 004 803 964 721 1 269 2 236 1 460	56 342 26 922 61 035 46 608 64 445 54 991 69 825	42 051 20 493 49 477 53 914 45 684 41 517 62 924	38 159 21 8 48 211 36	25 94 10 12 36 132 29	16 39 4 17 52 13	8 23 3 1 11 40 9
Farms not on mail list	4 292	(NA)	19 418	(NA)	8 532	(NA)	20 204	(NA)	4 240	(NA)	785	(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 shortcomings of the mail method, especially in counting the number of small farms, it was decided to take another step to ensure a more complete count.

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

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

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

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

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

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

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

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

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

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

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

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

See footnotes at end of table.

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

				Percent change,	
	Farms, 1978 ¹	Published	Net percent missed	Adjusted	adjusted 1974 to 1978
East North CentralCon.					
Michigan	68,158	64,094	9.9	71,213	-4.3
Farms with sales of \$2,500 or more	47,767	46,670	6.0	49,649	-3.8
Farms with sales of less than \$2,500	20,391	17,424	19.2	21,564	-5.4
Wisconsin	90,006	89,479	5.3	96,350	-6.6
Farms with sales of \$2,500 or more	76,373	74,887	.5	75,263	+1.5
Farms with sales of less than \$2,500	13,633	14,592	30.8	21,087	-35.3
West North Central	575,106	572,672	5.6	610,255	-5.8
Farms with sales of \$2,500 or more	508,033	497,726	3.2	513,996	-1.2
Farms with sales of less than \$2,500	67,073	74,946	21.8	96,259	-30.3
Minnesota	102,984	98,537	9.0	108,614	-5.2
Farms with sales of \$2,500 or more	87,753	85,926	5.5	90,927	-3.5
Farms with sales of less than \$2,500	15,231	12,611	28.7	17,687	-13.9
Iowa	126,379	126,104	4.4	133,125	-5.1
Farms with sales of \$2,500 or more	117,704	117,142	3.2	121,014	-2.7
Farms with sales of less than \$2,500	8,675	8,962	26.0	12,111	-28.4
Missouri	121,826	115,711	9.6	128,948	-5.5
Farms with sales of \$2,500 or more	97,848	82,421	4.7	86,486	+13.1
Farms with sales of less than \$2,500	23,978	33,290	21.6	42,462	-43.5
North Dakota	41,172	42,710	4.4	45,649	-9.8
Farms with sales of \$2,500 or more	38,914	40,681	3.2	42,026	-7.4
Farms with sales of less than \$2,500	2,258	2,029	44.0	3,623	-37.7
South Dakota	39,667	42,825	1.5	43,420	-8.6
Farms with sales of \$2,500 or more	36,927	39,849	1.6	40,497	-8.8
Farms with sales of less than \$2,500	2,740	2,976	-1.8	2,923	-6.3
Nebraska	65,991	67,597	.7	68,480	-3.6
Farms with sales of \$2,500 or more	61,507	62,594	.0	62,594	-1.7
Farms with sales of less than \$2,500	4,484	5,003	15.0	5,886	-23.8
Kansas	77,087	79,188	3.7	82,019	-6.0
Farms with sales of \$2,500 or more	67,380	69,113	1.9	70,452	-4.4
Farms with sales of less than \$2,500	9,707	10,075	12.9	11,567	-16.1
South Atlantic	325,678	296,103	16.6	362,451	-10.1
Farms with sales of \$2,500 or more	216,297	189,339	7.0	203,934	+6.1
Farms with sales of less than \$2,500	109,381	106,764	30.3	158,517	-31.0
Delaware and Maryland ³	22,600	18,563	7.1	19,952	+13.3
Farms with sales of \$2,500 or more	17,287	14,592	3.0	15,043	+14.9
Farms with sales of less than \$2,500	5,313	3,971	19.1	4,909	+8.2
Virginia	56,685	52,699	13.5	61,636	-8.0
Farms with sales of \$2,500 or more	38,416	31,738	4.5	33,234	+15.6
Farms with sales of less than \$2,500	18,269	20,961	26.2	28,402	-35.7
West Virginia	20,619	16,909	33.0	26,195	-21.3
Farms with sales of \$2,500 or more	9,603	6,122	11.7	6,933	+38.5
Farms with sales of less than \$2,500	11,016	10,787	44.0	19,262	-42.8
North Carolina	89,477	91,280	14.1	105,774	-15.4
Farms with sales of \$2,500 or more	64,897	62,518	9.2	68,852	-5.7
Farms with sales of less than \$2,500	24,580	28,762	22.1	36,922	-33.4
South Carolina	33,450	29,275	22.8	43,034	-22.3
Farms with sales of \$2,500 or more	18,979	17,534	.8	17,675	+7.4
Farms with sales of less than \$2,500	14,471	11,741	53.7	25,359	-42.9
Georgia	58,682	54,911	13.2	63,133	-7.1
Farms with sales of \$2,500 or more	38,906	35,874	8.1	39,036	3
Farms with sales of less than \$2,500	19,776	19,037	21.0	24,097	-17.9
Florida	44,165	32,466	22.6	42,727	+3.4
Farms with sales of \$2,500 or more	28,209	20,961	9.5	23,161	+21.8
Farms with sales of less than \$2,500	15,956	11,505	41.2	19,566	-18.5
East South Central	318,640	306,010	14.8	360,164	-11.5
Farms with sales of \$2,500 or more	211,915	171,372	7.8	185,880	+14.0
Farms with sales of less than \$2,500	106,725	134,638	22.3	174,284	-38.8
Kentucky	110,002	102,053	10.5	113,897	-3.4
Farms with sales of \$2,500 or more	83,433	67,662	6.3	72,211	+15.5
Farms with sales of less than \$2,500	26,569	34,391	17.5	41,686	-36.3
Tennessee	96,792	93,659	18.8	115,683	-15.3
Farms with sales of \$2,500 or more	63,407	48,320	11.2	54,414	+16.3
Farms with sales of less than \$2,500	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	61,489	-4.4
Farms with sales of \$2,500 or more	40,669	31,299	10.0	34,777	+17.0
Farms with sales of less than \$2,500	18,119	19,660	26.4	26,712	-32.2
Louisiana	38,973	33,240	23.7	43,264	-9.9
Farms with sales of \$2,500 or more	22,683	18,580	12.3	21,186	+7.1
Farms with sales of less than \$2,500	16,290	14,660	33.6	22,078	-26.2
Oklahoma	79,530	69,719	11.7	79,243	+.4
Farms with sales of \$2,500 or more	58,781	47,833	5.6	50,671	+16.0
Farms with sales of less than \$2,500	20,749	21,886	23.4	28,572	-27.4
Texas	194,461	174,068	12.6	200,589	-3.1
Farms with sales of \$2,500 or more	134,456	106,092	6.2	113,104	+18.9
Farms with sales of less than \$2,500	60,005	67,976	22.3	87,485	-31.4
Mountain ³	127,881	111,868	6.7	122,588	+4.3
Farms with sales of \$2,500 or more	97,876	90,449	2.4	92,673	+5.6
Farms with sales of less than \$2,500	30,005	21,419	28.4	29,915	+.3
Pacific ²	154,516	123,837	11.6	143,545	+7.6
Farms with sales of \$2,500 or more	103,152	88,996	5.6	94,204	+9.5
Farms with sales of less than \$2,500	51,364	34,841	27.5	49,341	+4.1
Washington	37,778	29,410	10.8	32,999	+14.5
Farms with sales of \$2,500 or more	24,737	21,079	6.4	22,520	+9.8
Farms with sales of less than \$2,500	13,041	8,331	20.5	10,479	+24.5
Oregon	34,875	26,753	15.5	31,788	+9.7
Farms with sales of \$2,500 or more	21,071	17,043	6.3	18,189	+15.8
Farms with sales of less than \$2,500	13,804	9,710	28.6	13,599	+1.5
California	81,863	67,674	10.5	78,758	+3.9
Farms with sales of \$2,500 or more	57,344	50,874	4.9	53,495	+7.2
Farms with sales of less than \$2,500	24,519	16,800	33.5	25,263	-2.9

¹Data are from preliminary reports and may differ slightly from final counts. ²Alaska and Hawaii not included. ³Data not compiled for individual States.

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

			Farms, 1974		Percent change,
	Farms, 1978 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 10 to 49 acres	213,110	126,604	26.1	174,773	+21.9
50 to 179 acres	474,535 813,944	378,631 827,506	22.9 11.0	494,024 936,797	-3.9 -13.1
180 to 499 acres	596,268	615,913	3.9	646,957	-7.8
500 acres or more	377,314	362,048	1.5	369, 865	+2.0
Tenure of operator:					
Full owner	1,450,414	1,422,367	13.0	1,650,942	-12.1
Part owner	712,844	627,648	5.2	667,402	+6.8
Tenant	311, 913	260,687	12.6	304,072	+2.6
NORTHEAST					
Farms	149,385	127, 531	16.5	152, 730	-2.2
Farms by size:					
1 to 9 acres 10 to 49 acres	13,534	7,689	16.8	9,301	+45.5
50 to 179 acres	28,098 61,017	19,416 54,901	31.2 17.1	28,403	-1.1
180 to 499 acres	38,288	37,864	6.0	66,655 40,542	-8.5 -5.6
500 acres or more	8,448	7,661	1.5	7,829	+7.9
Tenure of operator:					
Full owner	93,880	83,389	19.5	103,110	-9.0
Part owner	43,680	36,112	4.9	37,797	+15.6
Tenant	11,825	8,030	32.4	11,823	.0
NORTH CENTRAL					
Farms	1,027,319	1,017,367	6.3	1,096,353	-6.3
Farms by size: 1 to 9 acres	59.1(0)	26.045			
10 to 49 acres	58,168 138,016	36,065 108,756	30.8 18.5	52,227	+11.4
50 to 179 acres	324, 583	350, 343	6.8	133,716 376,663	+3.2 -13.8
180 to 499 acres 500 acres or more	321,482 185,070	345,610 176,593	2.5	355,187	-9.5
Cenure of operator:		1/0,000	.9	178,560	+3.6
Full owner	542,504	560 066	7.5		
Part owner	334,287	568,866 313,364	7.5	620,166	-12.5
Tenant	150,528	135,137	7.3	329,173 147,014	+1.6 +2.4
South					+2.4
Farms	1,016,070	930,099	15.2	1,107,200	-8.2
Farms by size:					0.1
1 to 9 acres	95,711	55,659	31.1	01 (00)	
10 to 49 acres	232,908	194,050	24.2	81,428 258,033	+17.5 -9.7
50 to 179 acres 180 to 499 acres	370,928	369,648	4.0	433, 227	-14.4
500 acres or more	197,023 119,500	196,395 114,347	7.8	214,701	-8.2
	,	114,04/	3.8	119,811	3
fenure of operator: Full owner	(
Part owner	633,455 264,029	623,219	17.4	757,206	-16.3
Tenant	118,586	214,061 92,819	7.5 20.9	232,239	+13.7
JEST ²		· -,	20.9	117,755	+.7
	282, 397	235,705	9.5	266 122	
Farms by size:		,	- • • •	266,133	+6.1
1 to 9 acres	45,697	27,191	1		
10 to 49 acres	75,513	56,409	12.7 22.0	31,817	+43.6
50 to 179 acres	57,416	52,614	10.8	73,872	+2.2
180 to 499 acres 500 acres or more	39,475	36,044	8	60,252 36,527	-4.7
	64,296	63,447	-1.8	63,665	+8.1 +1.0
enure of operator:				÷	
Full owner Part owner	180,575	146,893	12.1	170,460	F ~
Tenant	70,848	64,111	4.1	68,193	+5.9 +3.9
	30,974	24,701	8.3	27,480	+12.7

¹Data are from the preliminary reports and may differ slightly from final counts. ²Alaska and Hawaii not included.

APPENDIX D. Report Forms

NIE 87 EEBDIARY 15 1070			For	m Approved: O.M.B. I	No. 41 - \$7802
DUE BY FEBRUARY 15, 1979 NOTICE Response to this inquiry is required by law (title 13, U.S. Code). By the THE CENSUS BUREAU IS CONFIDENTIAL. It may be seen only by sworn Cens only for statistical purposes. Your report CANNOT be used for purposes of taxati The law also provides that copies retained in your files are immune from legal proces	sus employees and may be used on, investigation, or regulation. ss.	FORM 78-A1(N) (4-10-78)		S. DEPARTMENT OF BUREAU OF	THE CENSUS
In correspondence periaining to this report, please refer to the 11-digit Census File	Number (CFN)			OF	•
2011 1926, de la constante de 1920 2011 - Constante de la con 1920 - Paris de la constante de		3 78 5			E
		6 - 23			E.
		COMPLETE AND RETU	RN TO 🔪 12	ureau of the Census 201 East Tenth Street Mersonville, Indiana	47132
양려 가장 물건이 있는 것 같이 있는 것이 같은 것을 것 같아. 것 같이 있는 것이 없는 것이 있는 것이 없는 것이 않는 것이 없는 것이 있 않이 없는 것이 않이 않이 않이 않이 않이 않이 않이 않이 않이 않아. 않아. 같이 않아.		Note Please read	d the Information	Sheet before completi	ing the form.
		If book figures are not a filing by Feb. 15 causes sent to the above addre (CFN) as shown in your a	an undue burden ess. Include vo	, a time extension req our 11-digit Census	uest may be File Number
	n a Arian Inden. Ny Frantsa dia Gmbo	If you received more than	one re-		
		port form, enter extra Cen Number(s) here and retur copies with your complete	in extra	┼┼┼ _╧ ┼┤	-+-+-+-
성하는 것은 것이다. 것은		CENSUS 035	036	037 038	
(Please correct errors in name, address, and ZIP code.)		USE 039 ONLY	040	041 042	
SECTION 1 ACREAGE IN 1978				e for reporting crops	
If the acres you operated in 1978 changed during the year, refer to the INFORMATION SHEET, Section 1.	INSTRUCTIO	Do not include cro	ps grown on land	rops in the appropria rented to others. Us	e section 8
Report land owned, rented, or used by you, your spouse, or by the partnership, corporation, or organization for which you are reporting. Include ALL LAND,				sted in sections 2 thr	
REGARDLESS OF LOCATION OR USE - cropland, pastureland,	and the second	re any of the FOLLOWING	CROPS harvest	ed from this place in i	1978?
rangeland, woodland, idle land, house lots, etc. None Number	Er of acres		res Qua	ntity harvested	Acres
All land owned All land rented of leased FROM OTHERS, including tand worked by	1. Field com for g		068	Bu.][69
you on shares, used rent free, in exchange for services, payment of taxes, etc. Include leased Federal, State, and railroad land. 044	Seed (Report qu a shelled-weigh	entity on tolasisj	{[]	OR	-
(DC, NC) include land used on a per-head basis under a grazing permit.) Also complete item 5 below.	2. Field corn for s		071	Tons, 07	2
3. All land rented or leased TO OTHERS, including land worked on	3. Wheat for grain	073	074	green Bu.	'5
shares by others and land subleased. Also complete item 6 below.	4. Oats for grain	076	077	Bu. 07	8
4. ACRES IN THIS PLACE - ADD acres owned (item 1) and acres rented (item 2), then SUBTRACT acres rented TO	5. Barley for grain	079	080	Bu. 06	n — —
OTHERS (item 3), and enter the result in this space.		082	083		84
For this census report these are the "ACRES IN THIS PLACE." It the entry is zero please refer to the INFORMATION SHEET, Section T.	6. Sorghums for grant seed (include m	ain or No)	{	OR	
	7. Sorghums for si	age 085	086	oe	7
5. If you rented land FROM OTHERS (item 2) enter the following information for each Name of landlord Mailing address (Include 21P code) Number		xclude prosses) 🔲 📃		Tons, green	
047	8. Soybeans for be		089	Вu. 09	
048	9. Cotton		092	Bales	
049	10. Tobacco - all t	ypes	/10 095	Lbs.	/10
List additional landlords on a separata sheet of paper.	11. Irish potatoes.		/10	Cwt. 10	/10
6. If you rented land TO OTHERS (item 3), enter the following information for each re	100 for the first second s	no yams	/10	Bu.	/10
Name of renter Mailing address (Include 2/P code) Number	003 1	s any DRY HAY, GRASS S harvested from this place # hey cut from pestures.)] YES - Complete this #] NO - Go to section 4	in 1978? (Includ	GE, of GREEN CHOP is sorghum audus crau	cut Bee
List additional renters on a separate sheet of paper. a. Of the land you rented or leased to others, None 053	same fields, rej GRASS SILAGE	made for both dry hay and part the acreage in the app , HAYLAGE, and GREEN	ropriate items un	aylage, or green chop der DRY HAY and els	from the to under
7. During 1978, did you have any Federal or State grazing permits on a per-head hasis:	(If two or more made from the s	cuttings of dry hay ware ame acres, report acres on total tons from all cutting	ty Acres (6,) harvester		d Acres irrigated
such as Forest Service, Taylor Grazing, 054 Indian Reservations, etc.?	1. Alfaita and alfa		103	as indicated)	105
8. How many set aside acres did you have		- oats, wheat, bariev, etc	105	107 Tons	
in the Federal Farm Program in 1978?	Acres 3. Other tame dry	hay, clover, lespedeza, la grass, Sudan grass, etc.	109	110 Tons dry	, 111
				113 Tons	, 114
Iargest value of your County mame State Numb agricultural products Principat 056 raised or produced? County	GRASS SILAGE GREEN CHOP	, HAYLAGE, AND		ary	
b. If you also have agricul-	heylage, or gre	cullings of grass silage, en chop were made from th port acres only once, but	e l		
tural operations in any other county(ies), enter osa	report total ton	d haviage	115	116 Tons green	
the county name(s), etc		ind fed green (green chop)			120

Page 1

		ined total of 20		T TREES,	including GR	APEVINE	S, CITRUS an	d NUT	TRE	ES ON T	THIS PLACE	in 1978	17 (Do no	t include at	andoned tre	HBS)
		olete this section 5	n		Tota	I Acres	Acres	Irrigat	led]						
1. TOTAL ACRES in bear	ing and r	nonbearing fruit	orchards, citr	us	121	res Ten	the Whole act	es [*	Tenths							
or other groves, vineyar 2. From the list at the rig requested information for	ht, enter or each c	name and code	for the fruit to	rees, grape	vines, and nu	It trees of	ail freet oto	E or	intere.	ontad	NONCITRI Apples Apricots . Avocados	*****	123	harvester		Code 0
trees, estimate the area	covered	l by each kind o	f fruit. If oth	er crops we	re interplant	ed with tr	ees, see Inforn	nation	Sheet.	1	informati Cherries . Grapes — I	on Sheat	135 147 nt 171	Grapetrui Lemons	ii 	257
Crop name	Code	NUMBE TREES OR	R OF VINES OF	- क्षार्च २	in trees	Quan		i of me fark of		<u> </u>	Grapes - 1 Oilves - 3	tesh we	ght 177		••••••••••••••••••••••••••••••••••••••	· · · · 297 · · · · 303
	Code	Nonbearing age	Bearing age		ages res i Tenths	harve	sted 4	Tons	Boxes	Lbs. per box	Informati Peaches .		225	mandari Other cit	ins rus — Specil	309 fy 315
	1		1	2	/10	3			1	15	Pears Plums and fresh we	0000000	6 (200 - 2	NUT CR	OP quantity in	Code
			1	2		3		20		5	fresh we Prunes - Other none	11113 -	2.000.0200	the shell	ý :	
			1	2	/10	3		*□	1	5	Specity .	••••	261	Filberts Pecans,	and haze inu improved	its 127 339
	1		1	2	/10	3	4	1		5				Pecans, and see Walnuts	wild sdling (English	
	+		1	2	/10	3				5				or Pets Other nul	uan) I frees -	
It more space is needed, i	130 Sepa	rate sheet of pa	xer.	1		San San Sa	[!L	l.⊤	11. C					Specify	•••••	363
FOR SAL		ABLES, SWEET this place in 19		ONS, etc.,	harvested		SECTION 7				WBERRIES, h this place			or OTHER	BERRIES h	arvested
) /////		plate this sectio					C	1940 A.S.	1.1.1.1.1.1.1	2 - 18 A.S.S.S.	mpiele this					
2 🗖 NO	- Go t	a section 6						2	D N) - a,	lo section	0				
For Florida, report for August 31, 1978 herves	t season	: for all	·				From the lit unit specifi	st beid ød wir	w, eni h crop	et ctop name.	name and co	xde. Røj	ort quant	ity harveste	ad in	
other States report for o 1. Land from which vegeting				res es Tenths	Acres irre Whole acres	The second s	Crop na	me	c	ode .	Acres herv		Quantity	, harvested		irrigated
harvested in 1978		1¢ • • • • • • • • • • • •	, 375	/10	376	/10		<u></u>			hole acres	1	1		Whole acre 2	1
2. From the list below, en It more than one vegeta	uble crop	was harvested	from the same	ACTOS, TOD	led in 1978. ort acres for				+	-		/10	1		2	/10
esch crop. Report croj	os grown	under protectio	n in section 6						+		<u> </u>	/10	1		2	/10
Crop nam	¢	Cod	e Acres (arvested /10	Acres irr	igated /10	If more spa	ce is r	teeded	, 430 36	iparate shes	/10 tofpepe	l		L	; /10
	·			/10	1	/10	Crop name Blackberrie	e and	dawha	reles (n	Cod ounds) 509	1.2002.2002.01	999.C.C.C.C.	ip name soberries (o	ounds)	Code
				/10	1	/10	Blueberries Blueberries	, tame , wild	(pour (pour	ds) ds)	512		Sta.	awberries (p	oounds) es (pounds)	536
				/10	1 1	/10	Cranberries SECTION 8	1000								
· · · · · · · · · · · · · · · · · · ·				/10	ı —	/10					la crops, o					<i>joanu</i> 13,
If more space is needed, i								- 18 C		. 30.3	mplete this to section					
Crop name Asparagus Beans, snap (bush		Crop name Cucumbers and Eggplant	pickles., 41	de Crop n 11 Peppe	s, sweet		From the li		5.93	2553		as gaine				
and pole)	381 383	Garlic Honeydew melo	4	21 Pumpk 23 Radish	rs, hoi Ins Hes	··· 449	unit specifi	ad w/l	th crop	name.	1101110 AHU U	We' Mel	2041 QUERA		no m	
Broccoli	385 391	Lettuce and ron Lima beans, gre	aine 4	27 Spinac 29 Squast	n 1	457	Crop	пате		Co	le Acres	harvest	d Quar	ntity harves		in igated
Persian melons	395	Mustard greens Onions, dry Onions, green	i dan kala 🕷	33 Tomati	corn Des	445	L			<u> </u>					2	
Cauliflower	401	Peas, green, in	luding	57 Turnip Watern	greens	·· 467						-	1		2	
Collards Cowpeas (blackeyed and other green cowpeas)		English (exch green cowpeas			regetables ify								1		2	
SECTION 6 Were any	NURSE	RY and GREEN											1		2	
protection		etable seeds an SHROOMS grown				ther							1		2	
	-	olete this sectio	n		ea irrigated					+			1		2	
2 🛄 NO	- Go ti	section 7	None	Square fee	t Acres	Tenths									2	
1. Nursery and greenhouse	product	is irrigated in 19	178 🗆 [4	77	478	/10	If more spa	xe is /	eoded	. USB 66	parate shee	t of pape	r.			
2. From the list below, en	ter the p	,			· · · · · · · · · · · · · · · · · · ·		Crop name				CI	ale Crop	-	husin la \		Cude
Product name	Code	glass or othe protection in 1	in	in the open 1978	38158 1		Atfalfa see Beans, dry (100-poun	field :	and se	ed	1. 1. 1. 1.		clover se	ed (pounds)	or	671
		production in a	Whole ac	res Tenth	2	Cents	Beans, dry (100-poun	tima d bags	ы	****		Rice 57	(bush (barn	vels) (xr els)		680
<u></u>			1	/1	2		Buckwheat Com cut fo	t dty i	oddar.	hogged	···· ·	Ryej	7435 See	d (pounds) .	· · · · · · · · · · · · · · · · · · ·	649
				/1	2	<u> </u>	Cowpeas fo Emmer and	spelt	peas (i (bushe	jushela) (s)		64 Sorg 99 or	hums cut hay (tons	for dry fora , dry weight	8 0	694
If more space is needed, u	86 SOP8			·····		·	Fescue see Flaxseed (I	d (pou nushel	inds) s)	• • • • •		02 Sorg 05 Suga	hums hog r beets fu	ged or graze x sugar (tor	ed Hs)	701
Product name Bedding plants (include var Bulbs	retable p	Code P lants) 479 F 487 M	roduct name oliage and flo ushrooms	wering plai	n ts .	Code . 491	Kentucky 8 Lespedeza	iuegra	iss set	nd (pour s)	ds) 6	29 See	rcane for	seed (lons)	· · · · · · · · · ·	725
Cut flowers and cut florist Nursery products - enviro	(greens		d harvested egetable and			497	Mint for all	100.00	4	218		24 C/m#	lower see	d (pounds). (pounds)		714
lining-out stock, fruit an	d nut tre	es, G	teenhouse ver	jetables .		503	Peas, dry f Peas, dry f Popcern (pe	ieid ai unds,	shelle	a (pound (d)	15) 5	os Othe 2 Spe		xounds) —		773

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

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?
Report your best estimate of the value for each of the following groups of crops	912 I YES - Complete this section
sold from this place in 1978. Include the value of the landford's and/or contractor's	Number on this
share, estimating if necessary. Include value of Government CCC loans.	DELEMBER 31, 19/8 INVERTORY BO3 Total
Grains sold in 1978, including Government CCC loans - None Dollars Cents corn for grain, grain sorghums, rice, wheat and other 776	1. CATTLE AND CALVES of all ages all ages ages
small grains, soybeans, dry beans, dry peas and cowpeas, flaxseed, sunflower seed, popcorn, and safflower	a, BEEF COWS - include beet helfers that Bod Beef Cows
a. Of the total, how much was 777 Cents	b. MILK COWS kept for production of milk or cream
received in 1978 from Government CCC loans?	for sale of home use - include dry milk cows and Milk cows milk helfers that had celved
2. Cotton and cottonseed, including Government CCC loans	c. HEIFERS AND HEIFER CALVES - Exclude heifer heifers that had celved
a. Of the total, how much was None Dollars Cents received in 1978 from 779 Government CCC toans?	d. STEERS, STEER CALVES, BULLS AND BULL CALVES
Government CCC loans?	CATTLE AND CALVES SOLD FROM THIS PLACE IN 1978 None in 1978 Dollars Conts
4. Field seeds, grass seeds, hay, forage, and silage	contract or custom basis. Also report
5. Vegetables, sweet corn, and melons - DO NOT include (rish	to a feedlot for further feeding. 808 809
paratoes or sweetpotetoes, report them in item 8 below \$ 6. Fruits, nuts, berries - apples, peaches, grapes, 783	2. Calves weighing less than 500 pounds
citrus, pecans, strawberries, etc	3. Cattle, including calves weighing
7. Nursery and greenhouse products	500 pounds of more
Other crops - peanuts, Irish potatoes, sweetpotatoes, sugar beels, sugarcane, mint for oil, hops, etc specity s	a. Of the total cattle sold, how many were FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?
SECTION 10 LAND USE IN 1978	DAIRY PRODUCTS SOLD FROM
Copy ACRES IN THIS PLACE from section 1, item 4, page 1 Acres NOTE: If the same land had more than one use in 1978, REPORT THAT LAND	THIS PLACE IN 1978
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 614
2. CROPLAND None Number of acres	products in section 15
 Gropland harvested - Include all land from which crops were hervested or hay was out, and all land in orchards, citrus groves, 	SECTION 13 Did you or anyone else have any HOGS or PIGS on this place in 1978?
vineyerds, and nursely and greanhouse products	2 NO - Go to section 14 Number on this processor bits bits bits bits bits bits bits bits
without additional improvements.	DECEMBER 31, 1978 INVENTORY
c, Cropland used for cover crops, legumes, and soil-improvement grasses, but NOT harvested and NOT pastured	1. HOGS and PIGS of all ages (Totel of a and b below)
d. Cropland on which all crops failed (Exception: Do not report here land in prohards and vineyards on which the crop failed.	a. HOGS and PIGS used of to be used for BREEDING Breeding b. OTHER HOGS and PIGS
Such acreage is to be reported in item 26.1	• LITTERS FARROWED
f. Cropiand 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 cutover a. Woodland pastured	b. June I, 1978 and November 30, 1978
and deforested land with young timber growth, 795	같아. 이번에 이너한 사람이 생각하는 <mark>것 같아. 아파 가</mark> 면 같아.
4. Other pastureland and rangeland - include any pastureland other their orupland and woodland pasture	HOGS AND PIGS SOLD None None None Dollars Cents
5. All other land - Land in house lots, ponds, roads, wasteland, etc. 797 Include any fend not reported in items 2 through 4 above,	3. HOGS and PIGS SOLD from this place in 1978 S
5. TOTAL ACRES - Add the scres reported in items 2 through 5 (Should be the same as item 1 above.)	4. Of the hogs and pigs sold, how many were sold
SECTION 11 Was any LAND in this place IRRIGATED at any time in 1978?	as FEEDER PIGS for further feeding?
firigated fand is all land watered by any artificial or controlled means - sprinklers, turnows or diches, spreeder dikas, etc. include supplemental, partial, and prepiant irrigation. 011 - TYES - Complete this section	SECTION 14 Did you or anyone else have any SHEEP or LAMBS on this place in 1978? 014 1 YES - Complete this section 2 NO - Go to section 15
2 □ NO - Go to section 12	INVENTORY SALES Number on this Number sold
1. How many acres of each of the following classifications of land were irrigated in 1978? None Number of acres	None pisce Dec. 31, 1978 in 1978
HARVESTED LAND reported in section 10, Item 2a - Include land from which hav was cut	SHEEP and LAMBS of all ages B24 B25 B2
and land in bearing and nonbearing truit and nut crops	
section 10, items 2b and 4 - include spring floading	Norre Prolitiver Stiptit Short
It water diverted or spread by dame, spreader dikes, canals, ditchas, pipes, or other works.	2. SHEEP and LAMBS SHORN
C. ANY OTHER LANDS - Such as land not harvested due to complete failure, idle land, land in cultivated summer failow, or land in cover crops and soll-improvement grasses.	Gross value of sales
d. TOTAL LAND IRRIGATED (Total of a, b, and a above.)	None Dotters Cents 3. What was the gross value of sales of sheep, lambs, and wool from this place in 1978? 829 829

SECTION 15 Did you or anyone of LIVESTOCK, or Al	else have any HORSE NIMAL SPECIALTIES	S, BEES, FISH, O	THER		SECTION 17 Income from MACHINE WORK, CUSTOMWORK, and OTHER AGRICULTURAL
015 1 🔲 YES - Compl					SERVICES PROVIDED for others in 1978 Total amount received from machine work, customwork, None Dollars Cents
2 🔲 NO - Go to	section 16	·			and other agricultural services PROVIDED FOR OTHERS
	INVENTORY Number on	Total number	Gross v	alue of sales	In 1978 – planting, plowing, spraying, harvesting, etc., .
	one Dec. 31, 1978	sold in 1978	Dolla	rs Cents	Specify kind of work done
1. Horses and ponies of all ages	830	831	832 \$		SECTION 18 During 1978 did you SELL any crops, fivestock, or livestock products DIRECTLY to individuals FOR HUMAN CONSUMPTION - roadside
2. Mules, burros, and donkeys	833	834	835 S		stands, farmers markets, pick your own, etc.?
	836	837	838		1 YES - Complete this section Dollars Cents 2 NO - Go to section 19 920
3. Mink and their pelts	863		\$		1. What was the gross value of these direct sales?s
a. Mink females used for breeding [
4. Other livestock or animal specialties in captivity			ł		Specify products sold - vegetables, eggs, etc
(Enter name and code from "List A" below.)					Mark (X) the one item which best describes the type of organization for this place in 1978.
Name Code		1	\$ \$	i i	Refer to the INFORMATION SHEET, Section 19. • FAMILY or INDIVIDUAL operation (sole proprie- 921
5. Livestock or animal		Total quantity sold		alue of sales	torship), excluding partnership and corporation 1
products (Enter name and code from "List B" below.)	for aquacuiture	in 1978	Dolla	ars Cents	PARTNERSHIP operation. Include family partnerships 2 Total number INCORPORATED UNDER STATE LAW of partners
Name Code		Pounds			
C Fish and there is a		Gallons	<u>k</u>		a. Is this a family held corporation?
 Fish and other aquaculture products (Enter name and 		Pounds	2	1	b. Are there more than 10 stockholders? $\left\{ s \square Yes \right\}$
code from "List C" below.) Name Code	1	OR	· } s		•OTHER, such as cooperative, estate or trust, prison farm, grazing association, Indian reservation, etc 7 [] specify
	/10	Number		1	SECTION 20 CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner
	List A	<u> </u>			or person in charge) Refer to the INFORMATION SHEET, Section 20.
Name Code Na Colonies of bees 839 Ot	ther goats	Code Name		Code 	1. RESIDENCE – Does the operator (senior partner or 923 person in charge) live on this place?
MIIK goats	and their perts anothilias and their p	eits854 Spec	ther livest		924 1 White
Name Ust B	Code Name	Code	Name	Code	2 🗌 Negro or Black
Mohair sold			Other fis Specify		2. RACE of operator (senior partner or person in charge)
Honey sold	868 Tropical a baitfish	and	Other aq produc	ts –	■ Other - specity
Specity			Specify	y 888	
SECTION 16 Did you or anyone of	else have any POULT is place in 1978? (II	TRY such as CHICI	KENS, TUP	RKEYS,	925 3. AGE of operator (senior partner or person in charge) Years old
contract basis.)	ns place in 1970: (#		NTORY	3 U/I 8	4. SEX of operator (senior partner or person in charge)1 Male 2 Female
1 🗍 YES - Comp 2 🗍 NO - Go to		Numi this	ber on place	Total number sold in 1978	5. SPANISH ORIGIN - Is the operator (senior partner
		None Dec. 3 892		193	or person in charge) of Spanish origin or descent 927 (Mexican, Mexican American, Cuban, or other Spanish)?) TYes 2 🗌 No
1. HENS and PULLETS of laying a	ge			195	6. PRINCIPAL OCCUPATION - At which occupation
2. PULLETS 3 months old or older				197	did the operator spend the majority (50 percent or more) of his work time in 1978? <i>For partnerships</i>
3. PULLET CHICKS and PULLET: (Exclude commercial broilers.)	S under 3 months old	ם			consider all members of the partnership together 1 🔲 Farming 2 🛄 Other
4. BROILERS, fryers, and other me including capons and roasters .	at type chickens,	898	8	199	7. OFF FARM WORK - How many days did the operator sea (senior partner or person in charge) work at least
5. TURKEYS			9	001	4 hours per day off this place in 1978? Include work 2 □ 1-49 days at a nonterm job, business, or on someone else's term. 3 □ 50-99 days
a. Turkeys for slaughter (Exclud	e breeders.)	[]		03	(Exclude exchange farm work.)
b. Turkey HENS kept for breedin	-	🗆 🛌			e [] 200 days or more
 OTHER POULTRY raised in cap pigeons or squab, pheasants, qua 	ail, etc. (Enter poult	e, ry			SECTION 21 Was any of the land in this place held under FOREIGN OWNERSHIP in 1978?
name and code from the list belo	w.)		1		1 YES - Complete this section
Poultry name	Code				2 NO 3 Don't Go to section 28
Poultry name	Code			<u> </u>	know None Acres
Ducks	Name Pigeons or squab	Code Nami	1	Code 912	I Individuals who are NOT citizens of the United States?
Geese 906	Pheasants	910 Allo Spe	other poult acity	iry — 914	2. A foreign held corporation or unincorporated
7. POULTRY HATCHED on this pla 1978 and placed or sold - chicke		None		ımber	association, or a foreign government?
turkeys, ducks, etc Specity ki		[⁹¹		·	SECTION 28 PERSON COMPLETING THIS REPORT - Please print
8. Incubator egg capacity on Decem					Name 999 Date
 What was the gross value of sale and poultry products (eggs, etc.) 	from this	Gross valu			Telephone Area code Number
place in 1978? Include estimate	d value of Nor ed from this	918		Cents	When the data have been tabulated, do you want a summary 029
place by contractors and others.	[s	1		sheet showing major census results for your county? 1 🔲 YES 🛛 2 🔲 NO

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

SECTION 22 Was any COMMERCIAL FERTILIZ LIME used on this place during 19:		HOSPHATE, or	SECTION 25 EXPENDITURES FOR		petroleur	n products for	the
022 1 🔲 YES - Complete this section		Acres	include expenditures paid by you and others for production of crops, livestock, and other agricultural	Expenditu	ures .	Gallons	and Capacity on
2 🔲 NO 🗕 Go to section 23	Non		products from this place None in 1978.	Dollars	Cents	in 1975	(in gailons
 Acres of cropland fertilized in 1978, other than oused only for pastures reported in section 10, 416 			1. Gasoline for farm business	966 \$ 969		967 970	971
 Acres of pastureland and rangeland fertilized in 1978 reported in section 10, items 2b and 4. 	Π.	933	business	\$ 972	 	973	974
	Ione Tons of lime	Acres limed	the farm business (4.5 lbs.=	s			
which applied (Do not include land plaster or gypsum or lime for annitation.)	9 34	935	4. Fuel oil for the farm business 🗌	975 \$		976	977
SECTION 23 Were any INSECTICIDES, HERBICI OTHER PESTICIDES, or OTHER C	DES, FUNGICIDES, N HEMICALS used on th	EMATICIDES, is place in 1978?	5. Natural gas for the farm business	978 \$ 979	\$ 		
U23 YES - Complete this section			6. Kerosene, motor oil, grease, for the farm business	s	, , ,		
2 🔲 NO 😁 Qo to section 24			7. Electricity for the farm business	980 \$			
Include any materials provided by you, your land item listed, report acres only once. If multipurpo acreage treated for each purpose.			8. Other - coal, wood, coke, etc.	S	S naid b	vou and othe	15
 Sprays, dusts, granules, fumigants, etc., (fungicit herbicide, insecticide, nematicide) to control – 	de, None	Number of acres on which used	for this place in 1978 Include your best estimates of expe	ases paid by yo	u, your la	andiord, contra	ctors,
 Insects on hay and other crops 		936	buyers, and others for production of products in 1978. DO NOT INCLUS customwork for others; operation of	DE expenses con	inected v	with performing	
b. Nematodes in crops	nl	9 37	or household expenses not related t				lected expenditures
c. Diseases in crops and orchards (blights, smuls rusts, etc.)	3 ,		 Livestock and poultry purchased – hogs, pigs, sheep, lambs, goats, ho poults, started pullets, etc 	rses, chicks,		None 9	Dollars Cents
d. Weeds, grass, or brush in crops and pasture		9 3 9	2. Total feed purchased for livestock	and poultry - gr		1	83
2. Chemicals for defoliation or for growth control of crops or thinning of fruit		340	hay, silage, mixed feeds, concentra a. Commercially mixed formula feed complete, supplement, concentral	s purchased -	••••	···· 🗆 🔒	
3. Were any chemicals used for -			(Do not include ingredients purchased seperately, such as soybean meal, None 984	s Tenths 98	Dollars	Cents	
a. Insect control on livestock and poultry; Including treatment of buildings?		2 🗆 No	cottonseed maat, and urea.)	/10 \$			
 Sanitation, rodent and bird control, etc.? (Include lime for sanitation). 			3. Animal health costs for livestock a veterinarian services, serums, vacc	nd poultry. Incl ines, medicines	ude , elc	🗆 s	86
SECTION 24 MACHINERY AND EQUIPMENT on	this place on Decembe		 Seeds, bulbs, plants, and trees purchased - a Commercial fertilizer purchased - a 		승규는 영국에 관심하는 것	···· D \$	88
findude only equipment used for equ			phosphale and gypsum. Report cus Hem 9 below.	tom application	costs in	···· 🗆 🛓	
• Value of ALL machinery and equipment on this 1. What is the estimated market value of ALL machi-		978 1	 Agricultural chemicals purchased – fungicides, other pesticides, time, application costs in item 9 below. 	elC. Report cus	tom	' ,	1
equipment, and implements usually kept on this p and used for the farm or ranch business? Include	CHIS,	mated market value Ioliars i Cents	7. Hired farm or ranch labor (See Into. a. Of the hired workers, including p	rmation Sheet) .	• • • • • • •	···· 🗆 s	90
Itudie, fractore, combines, plowe, disks, narrows, pumps, motore, irrigation squipment, dairy equipm including milkers and built tanks, livestock feede	18/11 943	Iollars Cents	family workers, how many		Number 991	of workers	
grinding and mixing aquipment, etc	·····		(2) Worked less than 150 days?		992		
• SELECTED machinery and equipment on this place, December 31, 1978. (Report only if yared in 1977 or 1978.)	Total number on this place on December 31, 1978	Of the total, HOW MANY were manufac- tured in the last 5 years (1974–1978)?	 Contract labor - Include expenditure as harvesting of truit, vegatables, I 	es primarily for berries, stc., pe	claimed a	ich in a	193
Ngn¢	944	(Number) 945	9. Customwork, machine hire and rents equipment - Include expenditures f	al of machinery	and		1
2. Automobiles	946	947	for customwork such as grinding an combining, corn picking, drying, si dusting, fartilizing, atc. (Exclude	d mixino feed. d	itowing.		994
4. Wheel fractors other than garden	948	949	SECTION 27 ESTIMATED MARKE			the second s	•
tractors and motor tillers	950	951	Please give your best ESTIMATE (MARKET VALUE of land and build	of the CURREN lings for the acr	T es	Estimated c	urrent market value and buildings
self-propelled only	952	953	reported in section 1, items 1, 2, a		Non	996 Doll:	ars Cents
6. Corn heads for combines	954	955	1. All land owned		للبيبة	\$ 997 \$	
7. Other corn pickers and picker-shellers	956	957	3, All land rented or leased TO OTH		·	998	
B. Cotton pickers (Exclude cotton strippers) G Mower conditioners	958	959					·····
10. Pickup balers	960	961	1				
11. Field forage harvesters, shear	962	963	1				
bar of Nywheel type			×				

FORM 78-A1(5) (4-10-78)

FORM 78-A1(1)

GENERAL INFORMATION

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

 The enclosed census report form is being used by farms and ranches throughout the entire United States. Because it is meant for use in all parts of the country, it may contain sections and inquiries which do not apply to you. In this case, mark the "None" or "No" box and go on to the next item or section.

2. If You Receive More Than One Report Form If you have multiple farming operations, you should complete a report for EACH SEPARATE and DISTINCT production unit, that is, each individual farm, ranch, feedlot, greenhouse, etc.; or combination of farms, etc., for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production. Return any duplicate or extra report forms in the same envelope with the report(s) you complete so we can remove the extra adfresses from our mail register. In the space provided to the right of the address label of the report form you complete, write the 11 digit number from the label of the extra form or forms.

3. Partnership Operations

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

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

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

4. How To Enter Your Responses On The Report Form

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

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

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

COMPLETING THE REPORT FORM

Section 1 - ACREAGE IN 1978

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

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

If you had agriculture operations at any time during 1978, but quit farmingbefore December 31, 1978, report your 1978 crop and livestock production and sales from that land for the portion of the year that you operated the land. Please explain in the margin of the report form (or on a separate 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.

INFORMATION SHEET

1978 CENSUS OF AGRICULTURE

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

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

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

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

INCLUDE in item 2 -

- 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
- c. Land rented out for residential or other nonfarm purposes, if it was part of the land reported in item 1 or 2
- d. Land worked for you by someone else on a share-of-crop basis
 e. Land which you allowed others to use rent-
- free

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

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

"Zero Acres in Place" - Should you complete the rest of this form?

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

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

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

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

d. Mail the form in the return envelope provided.

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

Sections 2-8 - CROPS

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

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

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

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

How to Report Crops Harvested

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

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

ECTION 8 Review of DINER CROPS herevited than this place in 1918 - rice, presents, essi find starts, says cross, is other cape and permitting reported? • Permitting of the start starting is a start of the start start of the start of the

Cide name	Code	Acres Navested	Quantity Namested	Acies migsted
lan see	542	20	6,000	,
cichen ale	4671	30	\$ 400	,

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
ltern 3	Wheat	40	1,230	
item 8	Soybeans	40	1,550	40

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS 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 hervested 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. 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 orgenization 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, Ettates, etc.) – Complete section 20 for the person in charge, such as hired manager, business manager, or other person primarily responsible for the on-site, day-to-day operation of the farm or ranch business.

Section 22 - COMMERCIAL FERTILIZER

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

Section 24 - MACHINERY AND EQUIPMENT The estimated market value in item 1 refers to

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

Section 26 -- SELECTED PRODUCTION EXPENSES

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

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

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

FORM 78-A1(A)			-			oved: O.M.B. No. 41-\$780
16-22-78}		RTMENT OF COMMERCI UREAU OF THE CENSU	THE CENSUS I	ponse to this inquiry is required by law (title 13) BUREAU IS CONFIDENTIAL. It may be seen only	y by sworn Census employ	yees and may be used
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	'ES – Enter the	El number				
Number for this farm or N ranch operation?	a di			(2) Location (State and county)	Name	
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