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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 multi-establishment 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 C. 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.

### 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 statisticians. 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 computer-generated 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:

Cattle and calves . . . . .	farms . . . . .	842
	number . . . .	28,594

**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 far. with no storage capacity; therefore, the totals understate the actual storage capacity available.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### "See Text" References

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## FARM CLASSIFICATIONS

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

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

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

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

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

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

*Full owners*, who operate only land they own.

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

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

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

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

The classifications used were:

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

Partnership operation, including family partnership.

Corporation, including family corporation.

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

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

a. Family held.

Other than family held.

b. More than 10 stockholders.

10 or less stockholders

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

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

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

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

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

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

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

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

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

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

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

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

## UNPUBLISHED DATA

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

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

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

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

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

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

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

## **NONSAMPLING ERRORS**

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

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.

## **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 the contiguous United States (48 States) 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.

For Alaska and Hawaii, supplemental lists of farm operators obtained from the U.S. Department of Agriculture are used in addition to the administrative lists used in other States. The use of these lists ensures coverage of most farms. Such lists have been used to obtain satisfactory coverage in Alaska for several censuses.

The supplemental lists used for Hawaii in the 1978 census for the first time added substantially to the coverage, especially for smaller farms. Although no separate coverage evaluation information is available for Hawaii for comparison of recent censuses, data for 1978 appears much more complete. Therefore, comparison of 1978 data with that of earlier mail censuses should be made with caution.

## **STATISTICAL ADJUSTMENTS**

Report forms were obtained and tabulated for all the identified farms. In the few instances where the operator did not supply the required information, data were obtained from secondary sources. By means of detailed, programmed 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.

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

	Definition used for 1974 and 1978				Definition used for 1959, 1964, and 1969				Operations excluded by current definition but not by 1959 definition			
	Farms		Value of products sold (\$1,000)		Farms		Value of products sold (\$1,000)		Farms		Value of products sold (\$1,000)	
	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974	1978	1974
Alaska .....	383	291	8 225	6 695	477	333	8 255	6 712	94	42	30	17
Aleutian Islands Area .....	24	27	180	223	25	28	180	224	1	1	1	1
Anchorage Area .....	184	146	5 910	4 472	227	165	5 925	4 480	43	19	15	8
Fairbanks Area .....	90	66	1 446	1 631	116	78	1 454	1 636	26	12	8	5
Juneau Area .....	10	7	30	33	14	9	32	34	4	2	1	1
Kenai-cook Inlet, Seward Area .....	75	45	659	337	95	53	664	340	20	8	5	3

# APPENDIX C. Report Forms

DUE BY FEBRUARY 15, 1979

Form Approved: O.M.B. No. 41-578025

**NOTICE** Response to this inquiry is required by law (title 13, U.S. Code). By the same law YOUR REPORT TO THE CENSUS BUREAU IS CONFIDENTIAL. It may be seen only by sworn Census employees and may be used only for statistical purposes. Your report CANNOT be used for purposes of taxation, investigation, or regulation. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to the 11-digit Census File Number (CFN)

FORM 78-A1(S)  
(4-10-78)U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

## 1978 CENSUS OF AGRICULTURE

COMPLETE AND RETURN TO

Bureau of the Census  
1201 East Tenth Street  
Jeffersonville, Indiana 47132

**Note** Please read the Information Sheet before completing the form.

If book figures are not available, reasonable estimates may be used. If filing by Feb. 15 causes an undue burden, a time extension request may be sent to the above address. Include your 11-digit Census File Number (CFN) as shown in your address label in all correspondence to us.

If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.

CENSUS USE ONLY	035	036	037	038
	039	040	041	042

(Please correct errors in name, address, and ZIP code.)

### SECTION 1 ACREAGE IN 1978

If the acres you operated in 1978 changed during the year, refer to the INFORMATION SHEET, Section 1.

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, REGARDLESS OF LOCATION OR USE -- cropland, pastureland, rangeland, woodland, idle land, house lots, etc.

- None ☐ Number of acres
1. All land owned. ☐ 043
2. All land rented or leased FROM OTHERS, including land worked by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include leased Federal, State, and railroad land. (DO NOT include land used on a per-head basis under a grazing permit.) Also complete item 5 below. ☐ 044
3. All land rented or leased TO OTHERS, including land worked on shares by others and land subleased. Also complete item 6 below. ☐ 045
4. ACRES IN THIS PLACE -- ADD acres owned (item 1) and acres rented (item 2), then SUBTRACT acres rented TO OTHERS (item 3), and enter the result in this space. ☐ 046

For this census report these are the "ACRES IN THIS PLACE."  
If the entry is zero please refer to the INFORMATION SHEET, Section 1.

5. If you rented land FROM OTHERS (item 2) enter the following information for each landlord.

Name of landlord	Mailing address (include ZIP code)	Number of acres
		047
		048
		049

List additional landlords on a separate sheet of paper.

6. If you rented land TO OTHERS (item 3), enter the following information for each renter.

Name of renter	Mailing address (include ZIP code)	Number of acres
		050
		051
		052

List additional renters on a separate sheet of paper.

- a. Of the land you rented or leased to others, how many acres did you own? ☐ 053 Acres
7. During 1978, did you have any Federal or State grazing permits on a per-head basis; such as Forest Service, Taylor Grazing, Indian Reservations, etc.? ☐ 054 1 ☐ Yes 2 ☐ No

8. How many set aside acres did you have in the Federal Farm Program in 1978? ☐ 055 Acres

### 9. LOCATION OF AGRICULTURAL ACTIVITY FOR THIS PLACE

- a. In what county was the largest value of your agricultural products raised or produced? ☐ Principal county ☐ Other counties
- | County name | State | Number of acres |
|-------------|-------|-----------------|
|             |       | 056             |
|             |       | 057             |
|             |       | 058             |
|             |       | 059             |
- b. If you also have agricultural operations in any other county(ies), enter the county name(s), etc.

### INSTRUCTIONS

Sections 2 through 8 provide space for reporting crops harvested during 1978. Please report your crops in the appropriate section. Do not include crops grown on land rented to others. Use section 8 to report ONLY those crops NOT listed in sections 2 through 7.

### SECTION 2 Were any of the FOLLOWING CROPS harvested from this place in 1978?

- None ☐
- | Acres harvested | Quantity harvested  | Acres irrigated |
|-----------------|---------------------|-----------------|
| 067             | 068 OR 069 Bu. Cwt. | 069             |
| 070             | 071 Tons, green     | 072             |
| 073             | 074 Bu.             | 075             |
| 076             | 077 Bu.             | 078             |
| 079             | 080 Bu.             | 081             |
| 082             | 083 OR 084 Bu. Lbs. | 084             |
| 085             | 086 Tons, green     | 087             |
| 088             | 089 Bu.             | 090             |
| 091             | 092 Bales           | 093             |
| 094             | 095 Lbs.            | 096             |
| 097             | 098 Cwt.            | 099             |
| 100             | 101 Bu.             | 102             |
|                 |                     | 103             |
1. Field corn for grain or seed (Report quantity on a shell-weight basis) ☐
2. Field corn for silage or green chop ☐
3. Wheat for grain ☐
4. Oats for grain ☐
5. Barley for grain ☐
6. Sorghums for grain or seed (include milo) ☐
7. Sorghums for silage or green chop (exclude sorghum-sudan crosses) ☐
8. Soybeans for beans ☐
9. Cotton ☐
10. Tobacco -- all types ☐
11. Irish potatoes ☐
12. Sweetpotatoes and yams ☐

### SECTION 3 Was any DRY HAY, GRASS SILAGE, HAYLAGE, or GREEN CHOP cut or harvested from this place in 1978? (Include sorghum-sudan crosses and hay cut from pastures.)

- 003 1 ☐ YES -- Complete this section  
2 ☐ NO -- Go to section 4

If cuttings were made for both dry hay and grass silage, haylage, or green chop from the same fields, report the acreage in the appropriate items under DRY HAY and also under GRASS SILAGE, HAYLAGE, and GREEN CHOP.

#### ■ DRY HAY

(If two or more cuttings of dry hay were made from the same acres, report acres only once, but report total tons from all cuttings.)

1. Alfalfa and alfalfa mixtures for hay or dehydrating ☐
2. Small grain hay -- oats, wheat, barley, etc. ☐
3. Other tame dry hay, clover, lespedeza, timothy, Bermuda grass, Sudan grass, etc. ☐
4. Wild hay ☐

#### ■ GRASS SILAGE, HAYLAGE, AND GREEN CHOP

(If two or more cuttings of grass silage, haylage, or green chop were made from the same acres, report acres only once, but report total tons from all cuttings.)

5. Grass silage and haylage ☐
6. Hay crops cut and fed green (green chop) ☐

Acres harvested	Quantity harvested (Report either dry or green weight as indicated)	Acres irrigated
103	104 Tons, dry	105
106	107 Tons, dry	108
109	110 Tons, dry	111
112	113 Tons, dry	114
115	116 Tons, green	117
118	119 Tons, green	120

**SECTION 4** Was there a combined total of 20 or more FRUIT TREES, including GRAPEVINES, CITRUS and NUT TREES ON THIS PLACE in 1978? (Do not include abandoned trees)

004 ☐ YES — Complete this section  
☐ NO — Go to section 5

Total acres		Acres irrigated	
Whole acres	Tenths	Whole acres	Tenths
121	/10	122	/10

1. **TOTAL ACRES** in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees on this place .....

2. From the list at the right, enter name and code for the fruit trees, grapevines, and nut trees on this place in 1978. Report the requested information for each crop even if not harvested because of low prices, damage from hail, frost, etc. For interplanted trees, estimate the area covered by each kind of fruit. If other crops were interplanted with trees, see Information Sheet.

Crop name	Code	NUMBER OF TREES OR VINES OF —		Acres in trees and vines of all ages		Quantity harvested	Unit of measure Mark one				
		Nonbearing age	Bearing age	Whole acres	Tenths		Lbs.	Tons	Boxes	Lbs. per box	
		1	2	/10	3	4	5	6	7	8	9
		1	2	/10	3	4	5	6	7	8	9
		1	2	/10	3	4	5	6	7	8	9
		1	2	/10	3	4	5	6	7	8	9
		1	2	/10	3	4	5	6	7	8	9

**NONCITRUS CROPS** Code **CITRUS CROPS** Code  
 Apples ..... 123 (Report quantity harvested in 1977-78 from bloom of 1977)  
 Apricots ..... 129  
 Avocados — See Information Sheet ..... 135  
 Cherries ..... 147  
 Grapes — dry weight ..... 171  
 Grapes — fresh weight ..... 177  
 Olives — See Information Sheet ..... 207  
 Peaches ..... 225  
 Pears ..... 231  
 Plums and prunes — fresh weight ..... 243  
 Prunes — dry weight ..... 249  
 Other noncitrus — Specify ..... 251

**CITRUS CROPS** Code  
 Grapefruit ..... 267  
 Lemons ..... 279  
 Oranges ..... 287  
 Tangerines ..... 303  
 Tangerines and mandarins ..... 309  
 Other citrus — Specify ..... 315

**NUT CROP** Code  
 (Report quantity in the shell)  
 Almonds ..... 321  
 Filberts and hazelnuts ..... 327  
 Pecans, improved ..... 339  
 Pecans, wild and seedling ..... 346  
 Walnuts (English or Persian) ..... 357  
 Other nut trees — Specify ..... 363

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

**SECTION 5** Were any VEGETABLES, SWEET CORN, MELONS, etc., harvested FOR SALE from this place in 1978?

005 ☐ YES — Complete this section  
☐ NO — Go to section 6

For Florida, report for September 1, 1977 through August 31, 1978 harvest season, for all other States report for calendar year 1978.

Acres		Acres irrigated	
Whole acres	Tenths	Whole acres	Tenths
375	/10	376	/10

1. Land from which vegetables were harvested in 1978 .....

2. From the list below, enter the crop name and code for each crop harvested in 1978. If more than one vegetable crop was harvested from the same acres, report acres for each crop. Report crops grown under protection in section 6.

Crop name	Code	Acres harvested	Acres irrigated
		/10	/10
		/10	/10
		/10	/10
		/10	/10
		/10	/10
		/10	/10

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

Crop name	Code	Crop name	Code	Crop name	Code
Asparagus ..... 379		Cucumbers and pickles ..... 411		Peppers, sweet ..... 443	
Beans, snap (bush and pole) ..... 381		Eggplant ..... 415		Peppers, hot ..... 445	
Beets ..... 383		Garlic ..... 421		Pumpkins ..... 449	
Broccoli ..... 385		Honeydew melons ..... 423		Radishes ..... 451	
Cabbage ..... 391		Lettuce and romaine ..... 427		Spinach ..... 457	
Cantaloups and Persian melons ..... 395		Lima beans, green ..... 429		Squash ..... 459	
Carrots ..... 397		Mustard greens ..... 431		Sweet corn ..... 461	
Cauliflower ..... 399		Onions, dry ..... 433		Tomatoes ..... 463	
Celery ..... 401		Onions, green ..... 435		Turnips ..... 465	
Collards ..... 407		Okra ..... 437		Turnip greens ..... 467	
Cowpeas (blackeyed and other green cowpeas) ..... 409		Peas, green, including English (exclude green cowpeas) ..... 441		Watermelons ..... 473	
				Other vegetables — Specify ..... 475	

**SECTION 6** Were any NURSERY and GREENHOUSE PRODUCTS, sod, bulbs, flowers, flower seeds, vegetable seeds and plants, vegetables under glass or other protection, or MUSHROOMS grown FOR SALE on this place in 1978?

006 ☐ YES — Complete this section  
☐ NO — Go to section 7

Area irrigated	
Square feet	Acres
477	478

1. Nursery and greenhouse products irrigated in 1978 ☐

2. From the list below, enter the product name and code for each product grown.

Product name	Code	Square feet under glass or other protection in 1978	Acres in the open in 1978		Sales in 1978	
			Whole acres	Tenths	Dollars	Cents
			/10	2		
			/10	2		
			/10	2		

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

Product name	Code	Product name	Code
Bedding plants (include vegetable plants) ..... 479		Foliage and flowering plants ..... 491	
Bulbs ..... 482		Mushrooms ..... 494	
Cut flowers and cut florist greens ..... 485		Sod harvested ..... 497	
Nursery products — environmental, lining-out stock, fruit and nut trees, and vines ..... 488		Vegetable and flower seeds ..... 500	
		Greenhouse vegetables ..... 503	
		Other — Specify ..... 506	

**SECTION 7** Were any STRAWBERRIES, CRANBERRIES, or OTHER BERRIES harvested FOR SALE from this place in 1978?

007 ☐ YES — Complete this section  
☐ NO — Go to section 8

From the list below, enter crop name and code. Report quantity harvested in unit specified with crop name.

Crop name	Code	Acres harvested		Quantity harvested	Acres irrigated	
		Whole acres	Tenths		Whole acres	Tenths
		/10	2		/10	
		/10	2		/10	
		/10	2		/10	

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

Crop name	Code	Crop name	Code
Blackberries and dewberries (pounds) ..... 509		Raspberries (pounds) ..... 539	
Blueberries, tame (pounds) ..... 512		Strawberries (pounds) ..... 536	
Blueberries, wild (pounds) ..... 515		All other berries (pounds) — Specify ..... 539	
Cranberries (100-lb. barrels) ..... 521			

**SECTION 8** Were any OTHER CROPS harvested from this place in 1978 — rice, peanuts, field seeds, sugar crops, or other crops not previously reported?

008 ☐ YES — Complete this section  
☐ NO — Go to section 9

From the list below, enter crop name and code. Report quantity harvested in unit specified with crop name.

Crop name	Code	Acres harvested	Quantity harvested	Acres irrigated
			1	2
			1	2
			1	2
			1	2
			1	2

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

Crop name	Code	Crop name	Code
Alfalfa seed (pounds) ..... 542		Proso millet (bushels) ..... 665	
Beans, dry field and seed (100-pound bags) ..... 554		Red clover seed (pounds) ..... 671	
Beans, dry lima (100-pound bags) ..... 557		Rice (bushels) or (barrels) ..... 680	
Buckwheat (bushels) ..... 575		Rye for grain (bushels) ..... 686	
Corn cut for dry fodder, hogged or grazed (report acres only) ..... 581		Ryegrass seed (pounds) ..... 689	
Cowpeas for dry peas (bushels) ..... 584		Safflower (pounds) ..... 692	
Emmer and spelt (bushels) ..... 599		Sorghums cut for dry forage or hay (tons, dry weight) ..... 696	
Fescue seed (pounds) ..... 602		Sorghums hogged or grazed ..... 701	
Flaxseed (bushels) ..... 605		Sugar beets for sugar (tons) ..... 719	
Grains, mixed (bushels) ..... 614		Sugarcane for sugar (tons) — See Information Sheet ..... 722	
Kentucky Bluegrass seed (pounds) ..... 629		Sugarcane for seed (tons) ..... 724	
Lespedeza seed (pounds) ..... 638		Sunflower seed (pounds) ..... 734	
Mint for oil (pounds of oil) ..... 644		Timothy seed (pounds) ..... 746	
Peanuts for nuts (pounds) ..... 655		Other crops (pounds) — Specify ..... 773	
Peas, dry field and seed (pounds) ..... 659			
Popcorn (pounds, shelled) ..... 662			



**SECTION 9 GROSS VALUE OF CROPS SOLD from this place in 1978, BEFORE taxes and expenses (Refer to the INFORMATION SHEET, Section 9.)**

Report your best estimate of the value for each of the following groups of crops sold from this place in 1978. Include the value of the landlord's and/or contractor's share, estimating if necessary. Include value of Government CCC loans.

	None	Dollars	Cents
1. Grains sold in 1978, including Government CCC loans — corn for grain, grain sorghums, rice, wheat and other small grains, soybeans, dry beans, dry peas and cowpeas, flaxseed, sunflower seed, popcorn, and safflower . . . . .	<input type="checkbox"/>	776	
a. Of the total, how much was received in 1978 from Government CCC loans? . . . . .	<input type="checkbox"/>	777	
2. Cotton and cottonseed, including Government CCC loans . . . . .	<input type="checkbox"/>	778	
a. Of the total, how much was received in 1978 from Government CCC loans? . . . . .	<input type="checkbox"/>	779	
3. Tobacco . . . . .	<input type="checkbox"/>	780	
4. Field seeds, grass seeds, hay, forage, and silage . . . . .	<input type="checkbox"/>	781	
5. Vegetables, sweet corn, and melons — DO NOT include Irish potatoes or sweetpotatoes, report them in item 8 below. . . . .	<input type="checkbox"/>	782	
6. Fruits, nuts, berries — apples, peaches, grapes, citrus, pecans, strawberries, etc. . . . .	<input type="checkbox"/>	783	
7. Nursery and greenhouse products . . . . .	<input type="checkbox"/>	784	
8. Other crops — peanuts, Irish potatoes, sweetpotatoes, sugar beets, sugarcane, mint for oil, hops, etc. — Specify . . . . .	<input type="checkbox"/>	785	

**SECTION 10 LAND USE IN 1978**

1. 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 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."

	None	Number of acres
2. CROPLAND		
a. Cropland harvested — Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse products. . . . .	<input type="checkbox"/>	787
b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without additional improvements. . . . .	<input type="checkbox"/>	788
c. Cropland used for cover crops, legumes, and soil-improvement grasses, but NOT harvested and NOT pastured . . . . .	<input type="checkbox"/>	789
d. Cropland on which all crops failed (Exception: Do not report here land in orchards and vineyards on which the crop failed. Such acreage is to be reported in item 2a.) . . . . .	<input type="checkbox"/>	790
e. Cropland in cultivated summer fallow . . . . .	<input type="checkbox"/>	791
f. Cropland idle . . . . .	<input type="checkbox"/>	793
3. Woodland — Include all woodlots and timber tracts and cutover and deforested land with young timber growth. . . . .		
a. Woodland pastured . . . . .	<input type="checkbox"/>	794
b. Woodland not pastured . . . . .	<input type="checkbox"/>	795
4. Other pastureland and rangeland — Include any pastureland other than cropland and woodland pasture . . . . .	<input type="checkbox"/>	796
5. All other land — Land in house lots, ponds, roads, wasteland, etc. Include any land not reported in items 2 through 5 . . . . .	<input type="checkbox"/>	797
6. TOTAL ACRES — Add the acres reported in items 2 through 5 (should be the same as item 1 above.) . . . . .		798

**SECTION 11 Was any LAND in this place IRRIGATED at any time in 1978?**

Irrigated land is all land watered by any artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, etc. Include supplemental, partial, and preplant irrigation.

011 ☐ YES — Complete this section  
☐ NO — Go to section 12

	None	Number of acres irrigated
1. How many acres of each of the following classifications of land were irrigated in 1978?		
a. HARVESTED LAND reported in section 10, item 2a — Include land from which hay was cut and land in bearing and nonbearing fruit and nut crops. . . . .	<input type="checkbox"/>	799
b. PASTURELAND or RANGELAND reported in section 10, items 2b and 4 — Include spring flooding if water diverted or spread by dikes, spreader dikes, canals, ditches, pipes, or other works. . . . .	<input type="checkbox"/>	800
c. ANY OTHER LANDS — Such as land not harvested due to complete failure, idle land, land in cultivated summer fallow, or land in cover crops and soil-improvement grasses. . . . .	<input type="checkbox"/>	801
d. TOTAL LAND IRRIGATED (Total of a, b, and c above.) . . . . .		802

**SECTION 12 Did you or anyone else have any CATTLE or CALVES on this place in 1978?**

012 ☐ YES — Complete this section  
☐ NO — Go to section 13

**• DECEMBER 31, 1978 INVENTORY**

1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below) . . . . .	<input type="checkbox"/>	803	Total all ages
a. BEEF COWS — Include beef heifers that had calved . . . . .	<input type="checkbox"/>	804	Beef cows
b. MILK COWS kept for production of milk or cream for sale or home use — Include dry milk cows and milk heifers that had calved . . . . .	<input type="checkbox"/>	805	Milk cows
c. HEIFERS AND HEIFER CALVES — Exclude heifers that had calved . . . . .	<input type="checkbox"/>	806	Heifers and heifer calves
d. STEERS, STEER CALVES, BULLS AND BULL CALVES . . . . .	<input type="checkbox"/>	807	Steers and bulls of all ages

**• CATTLE AND CALVES SOLD FROM THIS PLACE IN 1978**

Include those sold on this place on a contract or custom basis. Also report as sold, cattle moved from this place to a feedlot for further feeding.

	None	Number sold in 1978	Gross value of sales Dollars	Cents
2. Calves weighing less than 500 pounds . . . . .	<input type="checkbox"/>	808	809	
3. Cattle, including calves weighing 500 pounds or more . . . . .	<input type="checkbox"/>	810	811	
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? . . . . .	<input type="checkbox"/>	812	813	

**• DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1978**

4. Gross value of sales of DAIRY PRODUCTS from this place in 1978. Report goat dairy products in section 15 . . . . .

	None	Gross value of sales Dollars	Cents
814	<input type="checkbox"/>	814	

**SECTION 13 Did you or anyone else have any HOGS or PIGS on this place in 1978?**

013 ☐ YES — Complete this section  
☐ NO — Go to section 14

**• DECEMBER 31, 1978 INVENTORY**

1. HOGS and PIGS of all ages (Total of a and b below) . . . . .	<input type="checkbox"/>	815	Total
a. HOGS and PIGS used or to be used for BREEDING . . . . .	<input type="checkbox"/>	816	Breeding
b. OTHER HOGS and PIGS . . . . .	<input type="checkbox"/>	817	Other

**• LITTERS FARROWED**

2. LITTERS FARROWED on this place between —

	None	Number of litters
a. December 1, 1977 and May 31, 1978 . . . . .	<input type="checkbox"/>	818
b. June 1, 1978 and November 30, 1978 . . . . .	<input type="checkbox"/>	819

**• HOGS AND PIGS SOLD**

3. HOGS and PIGS SOLD from this place in 1978 . . . . .

4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding? . . . . .

	None	Number sold in 1978	Gross value of sales Dollars	Cents
820	<input type="checkbox"/>	821		
822	<input type="checkbox"/>	823		

**SECTION 14 Did you or anyone else have any SHEEP or LAMBS on this place in 1978?**

014 ☐ YES — Complete this section  
☐ NO — Go to section 15

1. SHEEP and LAMBS of all ages . . . . .

a. EWES 1 year old or older . . . . .

	None	INVENTORY Number on this place Dec. 31, 1978	SALES Number sold in 1978
824	<input type="checkbox"/>	825	
826	<input type="checkbox"/>		

2. SHEEP and LAMBS SHORN . . . . .

	None	Number shorn	Pounds of wool shorn
827	<input type="checkbox"/>	828	

3. What was the gross value of sales of sheep, lambs, and wool from this place in 1978? . . . . .

	None	Gross value of sales Dollars	Cents
829	<input type="checkbox"/>	829	

**SECTION 15** Did you or anyone else have any HORSES, BEES, FISH, OTHER LIVESTOCK, or ANIMAL SPECIALTIES in 1978?

015 ☐ YES — Complete this section  
2 ☐ NO — Go to section 16

None	INVENTORY Number on this place Dec. 31, 1978	Total number sold in 1978	Gross value of sales	
			Dollars	Cents
1. Horses and ponies of all ages <input type="checkbox"/>	830	831	832	
2. Mules, burros, and donkeys <input type="checkbox"/>	833	834	835	
3. Mink and their pelts <input type="checkbox"/>	836	837	838	
a. Mink females used for breeding <input type="checkbox"/>	863			
4. Other livestock or animal specialties in captivity (Enter name and code from "List A" below.)				
Name _____ Code _____				

None	Acres under water for aquaculture	Total quantity sold in 1978	Gross value of sales	
			Dollars	Cents
5. Livestock or animal products (Enter name and code from "List B" below.)				
Name _____ Code _____				
6. Fish and other aquaculture products (Enter name and code from "List C" below.)				
Name _____ Code _____				

**List A**

Name	Code	Name	Code	Name	Code
Colonies of bees	839	Other goats	848	Worms	857
Angora goats	842	Rabbits and their pelts	851	All other livestock — Specify	
Milk goats	845	Chinchillas and their pelts	854		860

**List B**

Name	Code
Mohair sold	864
Goats milk sold	866
Honey sold	868
Other livestock products — Specify	870

**List C**

Name	Code	Name	Code
Catfish	872	Other fish — Specify	884
Trout	876	Other aquaculture products — Specify	888
Tropical and baitfish	880		

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

**SECTION 16** Did you or anyone else have any POULTRY such as CHICKENS, TURKEYS, DUCKS, etc., on this place in 1978? (Include poultry grown for others on a contract basis.)

016 ☐ YES — Complete this section  
2 ☐ NO — Go to section 17

None	INVENTORY Number on this place Dec. 31, 1978	Total number sold in 1978
1. HENS and PULLETS of laying age <input type="checkbox"/>	894	895
2. PULLETS 3 months old or older not yet of laying age <input type="checkbox"/>	896	897
3. PULPET CHICKS and PULLETS under 3 months old (Exclude commercial broilers.) <input type="checkbox"/>	898	899
4. BROILERS, fryers, and other meat type chickens, including capons and roasters <input type="checkbox"/>	900	901
5. TURKEYS	902	903
a. Turkeys for slaughter (Exclude breeders.) <input type="checkbox"/>		
b. Turkey HENS kept for breeding <input type="checkbox"/>		
6. OTHER POULTRY raised in captivity — ducks, geese, pigeons or squab, pheasants, quail, etc. (Enter poultry name and code from the list below.)		
Poultry name _____ Code _____		
Poultry name _____ Code _____		

Name	Code	Name	Code	Name	Code
Ducks	904	Pigeons or squab	908	Quail	912
Geese	906	Pheasants	910	All other poultry — Specify	914

7. POULTRY HATCHED on this place in 1978 and placed or sold — chickens, turkeys, ducks, etc. — Specify kind of poultry ☐

8. Incubator egg capacity on December 31, 1978 ☐

9. What was the gross value of sales of poultry and poultry products (eggs, etc.) from this place in 1978? Include estimated value of poultry and poultry products moved from this place by contractors and others. ☐

None	Gross value of sales	
	Dollars	Cents
918		

**SECTION 17** Income from MACHINE WORK, CUSTOMWORK, and OTHER AGRICULTURAL SERVICES PROVIDED for others in 1978

Total amount received from machine work, customwork, and other agricultural services PROVIDED FOR OTHERS in 1978 — planting, plowing, spraying, harvesting, etc. ☐

None	Dollars	Cents
919		

Specify kind of work done \_\_\_\_\_

**SECTION 18** During 1978 did you SELL any crops, livestock, or livestock products DIRECTLY to individuals FOR HUMAN CONSUMPTION — roadside stands, farmers markets, pick your own, etc.?

018 ☐ YES — Complete this section  
2 ☐ NO — Go to section 19

None	Dollars	Cents
920		

1. What was the gross value of these direct sales? \_\_\_\_\_

Specify products sold — vegetables, eggs, etc. \_\_\_\_\_

**SECTION 19** TYPE OF ORGANIZATION

Mark (X) the one item which best describes the type of organization for this place in 1978. Refer to the INFORMATION SHEET, Section 19.

• FAMILY or INDIVIDUAL operation (sole proprietorship), excluding partnership and corporation ☐ 921

• PARTNERSHIP operation. Include family partnerships ☐ 922 Total number of partners \_\_\_\_\_

• INCORPORATED UNDER STATE LAW

Answer BOTH a and b

a. Is this a family held corporation? ☐ 923 Yes ☐ 924 No

b. Are there more than 10 stockholders? ☐ 925 Yes ☐ 926 No

• OTHER, such as cooperative, estate or trust, prison farm, grazing association, Indian reservation, etc. ☐ 927 Specify \_\_\_\_\_

**SECTION 20** CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner or person in charge) Refer to the INFORMATION SHEET, Section 20.

1. RESIDENCE — Does the operator (senior partner or person in charge) live on this place? ☐ 928 Yes ☐ 929 No

2. RACE of operator (senior partner or person in charge). ☐ 930 White ☐ 931 Negro or Black ☐ 932 American Indian ☐ 933 Asian or Pacific Islander ☐ 934 Other — Specify \_\_\_\_\_

3. AGE of operator (senior partner or person in charge). ☐ 935 Years old

4. SEX of operator (senior partner or person in charge). ☐ 936 Male ☐ 937 Female

5. SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent (Mexican, Mexican American, Cuban, or other Spanish)? ☐ 938 Yes ☐ 939 No

6. PRINCIPAL OCCUPATION — At which occupation did the operator spend the majority (50 percent or more) of his work time in 1978? For partnerships consider all members of the partnership together. ☐ 940 Farming ☐ 941 Other

7. OFF FARM WORK — How many days did the operator (senior partner or person in charge) work at least 4 hours per day off this place in 1978? Include work at a nonfarm job, business, or on someone else's farm. (Exclude exchange farm work.) ☐ 942 None ☐ 943 1-49 days ☐ 944 50-99 days ☐ 945 100-149 days ☐ 946 150-199 days ☐ 947 200 days or more

**SECTION 21** Was any of the land in this place held under FOREIGN OWNERSHIP in 1978?

021 ☐ YES — Complete this section  
2 ☐ NO  
3 ☐ Don't know } Go to section 22

Of the total acres in this place, how many were owned by —

None	Acres
930	
931	

1. Individuals who are NOT citizens of the United States? ☐

2. A foreign held corporation or unincorporated association, or a foreign government? ☐

<b>SECTION 22 Was any COMMERCIAL FERTILIZER, including ROCK PHOSPHATE, or LIME used on this place during 1978?</b> 022 1 <input type="checkbox"/> YES — Complete this section 2 <input type="checkbox"/> NO — Go to section 23  1. Acres of cropland fertilized in 1978, other than cropland used only for pastures reported in section 10, item 2b ..... <input type="checkbox"/> 932 2. Acres of pastureland and rangeland fertilized in 1978 reported in section 10, items 2b and 4 ..... <input type="checkbox"/> 933 3. LIME — tons of lime used and acres on which applied (Do not include land plaster or gypsum or lime for sanitation.) ..... <input type="checkbox"/> 934      Tons of lime 935      Acres limed  <b>SECTION 23 Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATOCIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1978?</b> 023 1 <input type="checkbox"/> YES — Complete this section 2 <input type="checkbox"/> NO — Go to section 24  Include any materials provided by you, your landlords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report acreage treated for each purpose. 1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematocide) to control — ..... <input type="checkbox"/> 936 a. Insects on hay and other crops ..... <input type="checkbox"/> 937 b. Nematodes in crops ..... <input type="checkbox"/> 938 c. Diseases in crops and orchards (blights, smuts, rusts, etc.) ..... <input type="checkbox"/> 939 d. Weeds, grass, or brush in crops and pasture ..... <input type="checkbox"/> 940 2. Chemicals for defoliation or for growth control of crops or thinning of fruit ..... <input type="checkbox"/> 3. Were any chemicals used for — a. Insect control on livestock and poultry, including treatment of buildings? ..... 941      1 <input type="checkbox"/> Yes      2 <input type="checkbox"/> No b. Sanitation, rodent and bird control, etc.? (include lime for sanitation) ..... 942      1 <input type="checkbox"/> Yes      2 <input type="checkbox"/> No	<b>SECTION 25 EXPENDITURES FOR ENERGY and petroleum products for the farm business during 1978</b> Include expenditures paid by you and others for production of crops, livestock, and other agricultural products from this place in 1978. None <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Expenditures</th> <th rowspan="2">Gallons purchased in 1978</th> <th rowspan="2">Storage capacity on this place (in gallons)</th> </tr> <tr> <th>Dollars</th> <th>Cents</th> </tr> </thead> <tbody> <tr><td>1. Gasoline for farm business ..... <input type="checkbox"/></td><td>966</td><td></td><td>967</td><td>968</td></tr> <tr><td>2. Diesel fuel for the farm business ..... <input type="checkbox"/></td><td>969</td><td></td><td>970</td><td>971</td></tr> <tr><td>3. LP gas, butane, propane for the farm business (4.5 lbs. = 1 gallon) ..... <input type="checkbox"/></td><td>972</td><td></td><td>973</td><td>974</td></tr> <tr><td>4. Fuel oil for the farm business ..... <input type="checkbox"/></td><td>975</td><td></td><td>976</td><td>977</td></tr> <tr><td>5. 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DO NOT INCLUDE expenses connected with performing customwork for others; operation of nonfarm activities, businesses, or services; or household expenses not related to the farm business. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="4">Selected expenditures</th> </tr> <tr> <th>None</th> <th>Dollars</th> <th>Cents</th> <th></th> </tr> </thead> <tbody> <tr><td>1. Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc. .... <input type="checkbox"/></td><td></td><td>982</td><td></td><td></td></tr> <tr><td>2. Total feed purchased for livestock and poultry — grain, hay, silage, mixed feeds, concentrates, etc. .... <input type="checkbox"/></td><td></td><td>983</td><td></td><td></td></tr> <tr><td>    a. Commercially mixed formula feeds purchased — complete, supplement, concentrates. 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<b>SECTION 24 MACHINERY AND EQUIPMENT on this place on December 31, 1978</b> (Include only equipment used for agricultural operations in 1977 or 1978.) • Value of ALL machinery and equipment on this place, December 31, 1978 1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? Include cars, trucks, tractors, combines, plows, disks, harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc. .... <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Estimated market value</th> </tr> <tr> <th>Dollars</th> <th>Cents</th> </tr> </thead> <tbody> <tr><td>943</td><td></td><td></td></tr> </tbody> </table> • SELECTED machinery and equipment on this place, December 31, 1978. (Report only if used in 1977 or 1978.) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Total number on this place on December 31, 1978</th> <th rowspan="2">Of the total, HOW MANY were manufactured in the last 5 years (1974–1978)? (Number)</th> </tr> <tr> </tr> </thead> <tbody> <tr><td>2. Automobiles ..... <input type="checkbox"/></td><td>944</td><td>945</td></tr> <tr><td>3. Motortrucks (Include pickups) ..... <input type="checkbox"/></td><td>946</td><td>947</td></tr> <tr><td>4. Wheel tractors other than garden tractors and motor tillers ..... <input type="checkbox"/></td><td>948</td><td>949</td></tr> <tr><td>5. Grain and bean combines, self-propelled only ..... <input type="checkbox"/></td><td>950</td><td>951</td></tr> <tr><td>6. Corn heads for combines ..... <input type="checkbox"/></td><td>952</td><td>953</td></tr> <tr><td>7. Other corn pickers and picker-shellers ..... <input type="checkbox"/></td><td>954</td><td>955</td></tr> <tr><td>8. Cotton pickers (Exclude cotton strippers) ..... <input type="checkbox"/></td><td>956</td><td>957</td></tr> <tr><td>9. Mower conditioners ..... <input type="checkbox"/></td><td>958</td><td>959</td></tr> <tr><td>10. Pickup balers ..... <input type="checkbox"/></td><td>960</td><td>961</td></tr> <tr><td>11. Field forage harvesters, shear bar or flywheel type ..... <input type="checkbox"/></td><td>962</td><td>963</td></tr> </tbody> </table>		Estimated market value		Dollars	Cents	943				Total number on this place on December 31, 1978	Of the total, HOW MANY were manufactured in the last 5 years (1974–1978)? (Number)	2. Automobiles ..... <input type="checkbox"/>	944	945	3. Motortrucks (Include pickups) ..... <input type="checkbox"/>	946	947	4. Wheel tractors other than garden tractors and motor tillers ..... <input type="checkbox"/>	948	949	5. Grain and bean combines, self-propelled only ..... <input type="checkbox"/>	950	951	6. Corn heads for combines ..... <input type="checkbox"/>	952	953	7. Other corn pickers and picker-shellers ..... <input type="checkbox"/>	954	955	8. Cotton pickers (Exclude cotton strippers) ..... <input type="checkbox"/>	956	957	9. Mower conditioners ..... <input type="checkbox"/>	958	959	10. Pickup balers ..... <input type="checkbox"/>	960	961	11. Field forage harvesters, shear bar or flywheel type ..... <input type="checkbox"/>	962	963	<b>SECTION 27 ESTIMATED MARKET VALUE OF LAND and BUILDINGS</b> Please give your best ESTIMATE of the CURRENT MARKET VALUE of land and buildings for the acres reported in section 1, items 1, 2, and 3, page 1. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Estimated current market value of land and buildings</th> </tr> <tr> <th>Dollars</th> <th>Cents</th> </tr> </thead> <tbody> <tr><td>1. All land owned ..... <input type="checkbox"/></td><td>996</td><td></td></tr> <tr><td>2. All land rented or leased FROM OTHERS ..... <input type="checkbox"/></td><td>997</td><td></td></tr> <tr><td>3. All land rented or leased TO OTHERS ..... <input type="checkbox"/></td><td>998</td><td></td></tr> </tbody> </table> <b>SECTION 28 PERSON COMPLETING THIS REPORT — Please print</b> Name ..... 999 Date ..... Telephone ..... Area code ..... Number ..... When the data have been tabulated, do you want a summary sheet showing major census results for your county? ..... 029 1 <input type="checkbox"/> YES      2 <input type="checkbox"/> NO		Estimated current market value of land and buildings		Dollars	Cents	1. All land owned ..... <input type="checkbox"/>	996		2. All land rented or leased FROM OTHERS ..... <input type="checkbox"/>	997		3. All land rented or leased TO OTHERS ..... <input type="checkbox"/>	998	
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FORM 78-A1(A)-1  
(6-23-78)U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

## INFORMATION SHEET FOR FORM 78-A1(A)

### 1978 CENSUS OF AGRICULTURE AREA SAMPLE

#### GENERAL INFORMATION

##### 1. Background

The form left by the census enumerator is part of the 1978 Census of Agriculture. Please take a few minutes to complete it and have it ready for the enumerator when he or she calls back within the next day or so. A completed report is needed from everyone having farming or ranching operations in 1978. Follow the instructions given below for completing section 1 and you will then be able to determine what additional information needs to be provided. The census enumerator will be glad to assist you with any problems encountered in completing this form.

Most farmers and ranchers will be mailed a 1978 census report form for completion at the end of this year. Small geographic areas have been selected at random to supplement the 1978 mail census. These areas are being covered by census enumerators at this time. Essentially the same questions will be asked on both forms. It will not be necessary for you to complete the mail form if you receive one.

Since the census form is for use in all parts of the country, there may be certain sections and inquiries that do not apply to you. Where this is the case, mark (X) the "None" or "No" box and go on to the next item or section.

##### 2. More Than One Farm Or Ranch Operation

If you have multiple farming operations in 1978, you should complete a report form for EACH SEPARATE and DISTINCT production unit (farm, ranch, feedlot, greenhouse, etc.) for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages and production. If you need more than one form, ask the census enumerator for more forms. If you do not have multiple farming or ranching operations, complete only ONE report form for your operation.

##### 3. Partnership Operations

Complete only ONE report form for a farm or ranch which was operated in partnership with others in 1978. Include all partners' shares on the same report form. Partners with agricultural operations of their own, separate from the partnership operation, should complete reports for their separate operations.

##### 4. How To Complete The Report Form

Please enter your answers in the proper spaces, on the correct lines, and in the units requested, e.g., dollars, bushels, tons, etc. Write any explanation outside the answer spaces or in the Remarks section on page 2.

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

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. Round off cents to the nearest dollar. The "Cents" column is shaded — always leave it blank.

#### COMPLETING PAGE 1

On this page, complete only part I — Identification — items 5, 6, 7, 8, and 9. Then, turn to page 2 to begin reporting information about your operation. The census enumerator will complete part II of page 1.

#### COMPLETING PAGES 2-6

##### Section 1 — ACREAGE IN 1978

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

**Changes in Acres Operated in 1978** — Report all land that YOU USED or expect to use during 1978 for crops and livestock production, even if some or all of the land is currently not part of your operation.

If you had agricultural operations at any time during 1978, but have since stopped, include the land you operated in section 1 and report the 1978 crop and livestock production and sales from the land for the portion of the year that you operated it. Please explain in the Remarks at the bottom of page 2 that in 1978 you retired, sold out, or otherwise have discontinued farming, ranching, or operating any other agricultural activity and give the approximate date.

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 the changes in acres, if necessary, in Remarks at the bottom of page 2.

In completing section 1, include all land that you were associated with in 1978 regardless of location or use. Do not include holdings of residential property not associated with agricultural operations. Report all land in whole acres in this section. If you used less than one acre, report it as one acre.

##### Completing Items 1, 2, 3, and 4 of Section 1

**Item 1 — Own At Any Time** — Report all land owned at any time in 1978 by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting. Include land held under title, purchase contract or mortgage, homestead law, or as heir or trustee of an undivided estate.

**Item 2 — Rent or Lease FROM Others** — Report all land rented by you, even though the landlord may have supplied equipment, fertilizer, or other materials and/or supervised some of the work.

##### INCLUDE in item 2 —

- a. land (for agricultural uses) that you rented FROM others for cash payments,
- b. land worked by you for someone else on a share-of-crops basis,
- c. land (owned by someone else) which you used rent-free, and
- d. Federal and State 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 under section 3 of the Taylor Grazing Act, National Forest Land, or Indian Reservation Permit Land.

**Item 3 — Rent or Lease 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. land owned by you and 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 non-farm 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, and
- e. land which you allow others to use rent-free.

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

**DO NOT INCLUDE in item 3** — Land on which you had crops or livestock (except crops or livestock on a share arrangement), even though the land may have been rented to others for part of the year.

**NOTE:** In completing sections 2 through 16 DO NOT report any crops or livestock raised or produced on land rented or leased TO others for all of 1978 (section 1, item 3). This production is to be reported by the individual tenant(s) or renter(s) you list in section 1, 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 the form applies only to this net figure — "Acres in this place." Hence, the rest of the form should cover only those operations on "The Acres" reported in item 4.

**ZERO in item 4 "Acres in Place"** — Should you complete the rest of this form? If the result shown in item 4 is zero (0), and you had crop or livestock operations on the land at anytime during 1978, please complete the rest of the form. See "Changes in Acres Operated in 1978," above.

However, if all your land was operated by a renter or on shares for the entire year, and you had no livestock or crops do not complete the entire form but do the following:

- a. Complete item 6 for renters.
- b. Complete part I, items 5, 6, 7, 8, and 9 on page 1.
- c. Give the form to the enumerator when he/she calls back and tell him/her about the situation.

**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 all livestock located on permit land in 1978.

#### Sections 2-8 — CROPS

Report only crops grown and harvested from the acres shown in section 1, item 4. Do not include any crops raised on land which you rented or leased TO others or which was worked on shares by others during 1978.

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

**Quantity Harvested** — The units of measure shown on the report form are those most commonly used throughout the country. If you use a unit of measure different from the one printed on the report form, please convert your figure for quantity harvested to the unit shown. If harvest is incomplete at the time of completing this form, please estimate the total quantity to be harvested.

**Acres Irrigated** — For each crop irrigated, report the 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 supplemental, partial, and preplant irrigation. If you did not irrigate an individual crop, leave the irrigation column blank for that crop.

### 1. Example of How to Report Crops Harvested

a. For sections 2 and 3 — A farmer planted 100 acres of field corn. He harvested 80 acres for grain which yielded 7,000 bushels of shelled corn. The remaining 20 acres were cut for silage, with an estimated silage production of 400 tons. Only the 20 acres of corn for silage were irrigated. His entries on the report form would be as follows:

Section 2 — Were or will any of the following crops be harvested from this place in 1978?		How many acres were or will be harvested?	How much was or will be harvested?	How many acres were or will be irrigated?
1. Field crops for grain or seed (Report quantity in a unit/weight basis.)	Item 1	80	7,000 bu.	0
2. Field crops for silage or green chop	Item 2	20	400 tons	20

b. For sections 4—8 — Space is provided for writing in the crop names and crop codes from the list in each section. To report a crop in any of these sections, first find the crop name and the code number in the list at the bottom of the section; then enter crop name and code in the first two columns of the first available answer line in the section; and finally, enter the information requested for the remaining columns. For 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:

Section 8 — Were or will any other crops be harvested from this place in 1978 — such as rice, soybeans, field seeds, sugar crops, or other crops not previously reported?				
YES — Complete this section				
1. YES — Complete section 9				
2. Which crops were or will be harvested from this place in 1978? (Show 1978 Crop)				
Crop name	Code	How many acres were or will be harvested?	How much was or will be harvested?	How many acres were or will be irrigated?
Alfalfa seed	542	20	6,000	
Red clover seed	671	30	8,400	

**Two or More Crops Harvested From the Same Land (Double-Cropping)** — If you had more than one crop harvested from the same land (double-cropping), report the total acres and production of each crop harvested in the appropriate section of the report form. For example, a farmer had a 40 acre field from which he harvested 40 acres of wheat for grain in 1978. He then planted and harvested 40 acres of soybeans for beans from the same acreage in 1978. He would report 40 acres of wheat in section 2, item 3 and 40 acres of soybeans in section 2, item 8. However, in section 10, item 2a, only 40 acres would be reported. (See instructions below for section 10.)

**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. For 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 your own home use. Report the total acreage of each vegetable crop harvested. For example, if you harvested 10 acres of lettuce from a field in 1978, then replanted the field in lettuce and harvested the 10 acres again, write in 20 acres of lettuce harvested in item 2 of section 5, but enter only 10 acres of land from which vegetables were harvested in item 1 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 crop harvested. For 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, item 2.

#### Avocados, Olives, Sugarcane

**Avocados** — For California report the quantity harvested or to be harvested from November 1, 1977 through November 30, 1978.

For Florida report the quantity harvested from April 1978 through March 1979 estimating if necessary.

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

**Sugarcane** — For Florida and Texas report cuttings from November 1977 through April 1978.

For Louisiana report 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). 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. If only partial payments were received for a crop or crops sold in 1978, report only the amount actually received in 1978.

### 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 first use 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, "Harvested," and NOT in item 2c "Cropland used for cover crop, legumes, ... etc."

**Double Cropping** — If more than one crop was harvested from the same land in 1978, report that land only ONCE in item 2a "Harvested."

**Interplanted Crops** — If you interplanted crops, such as cotton in an orchard, report the total land used for both crops only ONCE in item 2a, "Harvested," even though you reported the acres of each crop in sections 2 and 4.

### Sections 12—16 — LIVESTOCK AND POULTRY

#### Animals and Poultry to be Included in the Report

Report all animals and poultry expected to be on this place on December 31, 1978 owned by you or kept by you for others. Include animals on unfenced land, grazing on National Forest land, or on grazing district land or cooperative grazing association land, or 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 even though for your own home use, F.F.A. projects, 4-H project, etc., regardless of how few.

**Number Sold** — Report all animals and poultry that were or are expected to be 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 as long as the animals were located on the place 30 days or more and were or are expected to be 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 or are expected to be sold or removed from this 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 sales 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 include any animals or poultry kept 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 which was 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 as "dealer" transactions.

### Section 12 — FATTENED CATTLE SALES

Do not include the following in section 12, item 3a as fattened cattle sold for slaughter:

- a. veal calves fattened primarily on milk,
- b. dairy cows fed only the usual dairy ration before being sold, or
- c. cattle and calves sold for further feeding.

### Section 15 — 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

Skip this section and go to section 20.

### Section 20 — OPERATOR CHARACTERISTICS AND OCCUPATION

This section applies to the characteristics and occupation of the individual who is the operator, i.e., owner, senior partner, or person in charge of this place.

**For Individual or Family Operations (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, or is the oldest partner if all share equally in the day-to-day management decisions. For item 6 (Principal Occupation) include the total work time of all members of the partnership together. Please include as "Farming" worktime at all types of agricultural enterprises, including specialties, such as greenhouses, nurseries, mushrooms, ranching, feed lots, broiler feeding, etc.

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

### Section 22 — COMMERCIAL FERTILIZER

Report the number of acres on which commercial fertilizer was applied during 1978. If some acres were fertilized more than once, report the 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 during 1977 and 1978. 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 or expected to be paid this year by you and by anyone else for the production of crops, poultry, livestock, and other agricultural products on this place. Please give estimates if you do not know the exact figures. For example, if you grew broilers or fed cattle for others, include in the production expenses, item 1, your best estimate of the value of the baby chicks or the cattle at the time they were brought on this place. Include in item 2, the value and amount of all feed purchased by you or someone else for use on this place. In item 7, include expenditures for hired labor, such as wages or salary plus the value of benefits paid by you — Social Security taxes, unemployment insurance, etc.

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