# APPENDIX A. General Explanation

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#### TAKING THE CENSUS

#### Method of Enumeration

All censuses beginning with the 1969 census have been conducted primarily by mail. The 1978 census was the only census to include a mailout/mailback enumeration supplemented by the direct interview of all households in a sample of area segments. This combination of the mailout/mailback enumeration plus the area sample was used in 1978 to improve completeness of coverage for U.S., regional, and State level agriculture census statistics. Due to budget reductions, the area sample was eliminated in 1982.

In censuses prior to the 1969 census, enumerators were assigned to specific areas and called on all farm operators within each 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.

The mailout/mailback enumeration procedure was not used in taking the agriculture census in Puerto Rico, Guam, and the Virgin Islands. A discussion of the direct enumeration methods used there appears in the reports for these outlying areas. A description of the special direct enumeration of citrus caretakers is included in the **Definitions and Explanations** section.

#### Mail List

The mail list for the 1982 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 1978 census and administrative records of various government agencies, primarily the Internal Revenue Service and the U.S. Department of Agriculture (USDA).

Lists of large or specialized operations, such as nurseries, specialty crop farms, broiler growers, fish farms, livestock farms, and cattle feedlot operations, were obtained from State and Federal agencies, trade associations, and similar organizations. Lists of multiestablishment companies having one or more establishments (or locations) producing agricultural products were obtained from the 1978 census and updated using

information from the Standard Statistical Establishment List maintained by the Census Bureau.

A preliminary census mail list was assembled using names and addresses from the 1978 census and administrative source lists available in September 1981. Those records which were less likely to be farms were included in the 1982 Farm and Ranch Identification Survey. Approximately 3 million farm and ranch forms were mailed in March 1982 to names which appeared on only one source list or selected combinations of lists which had yielded a low percentage of farm operators in the 1978 census. As a result of this survey, nonfarm names and addresses were deleted from the census mail list, new tenant and successor operations were added, and the names, addresses, and size information were updated for the identified active farm operators.

The final census mail list was developed using results of the 1982 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 prior to mailing. Other duplicate names were either reported by respondents or located during office processing.

#### Report Forms

In 1982, 12 regional report form versions were used. These forms were tailored primarily in sections 2 through 8 to list crops commonly produced in one or more States, and in section 15 to list livestock specialties produced. These modifications were made to enhance reporting of crop and livestock data and to reduce respondent burden.

Two report form versions were used to minimize the reporting burden, particularly for small farms. Approximately 75 percent of all farms received the 4-page nonsample form covering major items such as land use, crops, livestock and poultry, market value of agricultural products sold, and operator characteristics. The 5-page sample form was mailed to all large and specialized farms (based on expected sales, acres, or standard industrial classification), all farms in Alaska and Hawaii, and approximately 17 percent of all other farms. The sample form contained all the items asked on the nonsample form plus the sample items (sections 22 through 28).

The sample form and the information sheet appear in appendix C. The **Statistical Adjustments** section of this appendix includes a discussion of the criteria used to determine whether the sample or nonsample form was to be mailed to addressees.

#### Initial Mailing

The report forms were mailed in late December 1982 to the approximately 3,653,000 individuals, businesses, and organizations on the mail list. The information sheet containing instructions for completing the form and a brochure explaining the uses of the census data were included with each report form. Additional special instructions were included with report forms sent to grazing associations; feedlot operations; institutional organizations; and producers of poultry under contract, bees and honey, fish, laboratory animals, worms, and nursery and greenhouse products.

In an effort to provide additional help to farmers in completing their reports, copies of an Agriculture Census Guide booklet were sent to county agricultural agencies, institutions, or businesses to whom farmers might turn for help. Included were vocational agriculture instructors, and USDA county offices—Agricultural Stabilization and Conservation Service, Farmers Home Administration, Soil Conservation Service, and Cooperative 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 requested.

#### **Followup Procedures**

The data collection effort included a reminder card and five followup letters, two of which were accompanied by a report form. Followup reminders were sent to nonrespondents on a flow basis at 3- to 4-week intervals starting in late February and continuing until late June 1983. In early April 1983, an additional followup letter was sent to nonrespondents in low response counties in 14 States.

Telephone calls were made to nonrespondents who were expected to have large operations (those with expected sales of \$100,000 or more) or who were located in low response counties. A nonresponse adjustment procedure was used to represent the final nonrespondent farms in the census results. A description of this procedure is included in the **Statistical Adjustments** section.

#### **DATA PROCESSING**

Selected report forms were reviewed prior to keying the data onto magnetic tape. These included reports with attached correspondence, and reports with remarks or no positive data on the front page. All new successors reported by former operators were researched to see if they had already been included in the census mailing. Report forms were mailed to successor addresses not located on the mail file. This processing improved the coverage of the census.

The data for each report form were subjected to a detailed item-by-item computer edit. The edit performed comprehensive checks for consistency and reasonableness, corrected erroneous or inconsistent data, supplied missing data based on similar farms within the same county, and assigned farm classification codes necessary for tabulating the data. Significant computer-generated changes to the data were reviewed and verified.

In the computer edit, farms with sales, acreage, or commodities exceeding specified levels were tested for historical comparability. Key items, such as acreage and sales, were compared for significant changes between 1978 and 1982. Sizeable historical differences were resolved or verified, by telephone if necessary.

Respondents who reported sales or acreage above specified levels on nonsample forms were sent correspondence requesting the additional sample data. Report forms with reported sales of \$1,000,000 or more or 30,000 acres or more, and other selected problem reports were reviewed by statisticians in the Agriculture Division. Problems that could not be resolved by reference to other information on the report were resolved by contacting the respondents by telephone or correspondence.

Prior to publication, tabulated totals were reviewed by statisticians to identify any inconsistencies and potential coverage problems. Comparisons were made with previous census data, estimates published by the USDA and other available check data. Selected report forms were reviewed and problem entries were either verified as being correct or the data were corrected.

#### **MAJOR DATA CHANGES**

The content of the 1982 census report form is similar to that of the 1978 form. To limit respondent burden, the 1978 and 1982 forms included only data items needed at the county level, either on a complete or sample basis. The 1978 census data items which were eliminated from the 1982 form include:

Land held under foreign ownership

Gallons purchased of gasoline; diesel fuel; LP gas, butane and propane; and fuel oil

Animal health costs for livestock and poultry

The following new data items were added to the 1982 report form:

Interest expense for the farm business Source of irrigation water

Year in which the operator began to operate the farm

More extensive data on Commodity Credit Corporation (CCC) loans were collected in 1982.

### **DEFINITIONS AND EXPLANATIONS**

The following definitions and explanations provide a more detailed description of the terms used in this publication than are available in the tables or on the report form. For an exact wording of the questions on the 1982 census report forms and the information sheet which accompanied these forms, see appendix C.

Most definitions of terms are the same as those used in earlier censuses. The more important exceptions are also noted here.

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

Land in farms—The acreage designated in the tables as "land in "farms" consists primarily of agricultural land used for crops, pasture, or grazing. It also includes woodland and wasteland not

actually under cultivation or used for pasture or grazing, provided it was part of the farm operator's total operation. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations.

Land in farms is an operating unit concept and includes land owned and operated as well as land rented from others. Land used rent free was to be reported as land rented from others. All grazing land, except land used under government permits on a per-head basis, 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 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 land area of counties and States shown for 1982 represents the total land area as determined by records and calculations updated as of January 1, 1983. The county land areas were remeasured in 1980. The previous county measurements were done in 1940. Any differences between the land area in 1982 and 1978 are due to these new measurements, annexations, 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 was raised or produced. It was usually the county containing all or the largest proportion of the land in the farm or viewed by the respondent as his/her principal county. For a limited number of Midwest and 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 1978 census as having more than one 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.

Value of land and buildings—Respondents 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. If the value of land and buildings was not reported, it was estimated using the average value of land and buildings from a similar farm in the same geographic area.

Harvested cropland—This category includes land from which crops were harvested or hay was cut, and land in orchards, citrus groves, vineyards, nurseries, and greenhouses. Land from which two or more crops were harvested was counted only once, even though there was more than one use of the land.

Cropland used only for pasture or grazing—This category includes land used only for pasture or grazing that could have been used for crops without additional improvement, and all

land planted in crops that were grazed before the crops reached maturity. Also included was all cropland used for rotation pasture and land in government diversion programs that were pastured. However, cropland that was pastured after crops were harvested was not to be included.

Other cropland—This category includes cropland used only for soil improvement crops, land on which all crops failed, cultivated summer fallow, idle cropland, and land planted in crops that were to be harvested after the census year.

Total woodland—This category includes natural or planted woodlots or timber tracts, cutover and deforested land with young growth which has or will have value for wood products, and land planted for Christmas tree production. Land covered by sagebrush or mesquite was to be reported as other pastureland and rangeland or other land.

Woodland pastured—This category includes all woodland used for pasture or grazing during the census year. Woodland or forest land pastured under a per-head grazing permit was not counted as land in farms and therefore was not included in woodland pastured.

Other land—This category includes land in house lots, barn lots, ponds, roads, wasteland, etc. In 1974, for farms with sales of less than \$2,500, this category included pastureland and rangeland other than cropland and woodland pastured in addition to land in house lots, barn lots, ponds, roads, and wasteland.

Land set aside in federal farm programs—This land includes land diverted or set aside under the provisions of the Federal Commodity Acreage Reduction Program. These data are for the acres of cropland taken out of production by growers of wheat, cotton, rice, corn, sorghum, barley, and oats, and devoted to conservation uses. No information was obtained as to which crops would have been grown on the acres set aside.

Irrigated land—This category includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes. Included are supplemental, partial, and preplant irrigation. Each acre was to be counted only once regardless of the number of times it was irrigated or harvested.

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 a person rents land to others or has land worked on shares by others, he/she is considered the operator only of the land which is retained 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 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 1982. If

operator characteristics of race, age, sex, and principal occupation were not reported, they were derived based on information reported by farms with similar acreage size, tenure, and sales size. No imputations were made for nonresponse to place of residence, Spanish origin, off-farm work, or year began operation. For the 1982 and 1978 censuses, operators of Spanish origin were tabulated by reported race. Prior censuses included Spanish origin as "White" whenever separate data for the White race were shown.

Selected farm production expenses—Since only selected production expenses incurred in 1982 were requested, the expense data cannot be used in combination with gross sales to calculate net cash farm income. The 1979 Farm Finance Survey provided estimates on net cash farm income.

In 1982, as in other recent censuses, operators producing crops, livestock, or poultry under contract frequently failed to report certain expenditure data. They often were unable or unwilling to estimate the cost of production inputs furnished by the contractors. As a consequence, the rate of imputation of expenditure data for these operations is considerably higher than it is for noncontract producers.

Commercial fertilizer—The expense for commercial fertilizer is the amount spent on fertilizer during 1982, excluding the cost of application. Some fertilizer purchased in 1982 may not have been applied during the year. If the fertilizer was applied by someone other than the operator, respondents were requested to report the cost of application as an expense for customwork, machine hire, and rental of machinery and equipment.

Other agricultural chemicals—These expenses include the cost of all insecticides, herbicides, fungicides, and other pesticides, excluding costs of application. Data exclude commercial fertilizer purchased. The cost of lime is included in the 1978 data, but excluded from 1982.

Customwork, machine hire, and rental of machinery and equipment—These expenses include 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 for operating rented or hired machinery is included as a hired farm and ranch labor expense.

Interest expense—Only the interest expense for the farm business was to be reported. Although instructions requested that interest on the owner/operator dwelling be excluded when separate records were available, it is probable that an undetermined amount of such nonfarm business interest was also reported.

Energy and petroleum products—Respondents were asked to report only those expenses pertaining to the operation of the farm business.

Storage capacity—This category applies to those farms reporting expenditures for the specific kind of fuel. The storage capacity was to be reported even if not used during the census year.

Farms with storage capacity reported as "no"—This category includes farm operators with expenditures for a specific kind of fuel who also checked the "none" box for storage capacity. See appendix C, section 26, Expenditures for Energy.

Market value of agricultural products sold—This category represents the gross market value before taxes and production expenses of all agricultural products sold or removed from the place in 1982 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, or others associated with the operation. In addition, it includes the loan value received in 1982 for placing commodities in the CCC loan program. This ensures comparability with prior census years for market value of agricultural products sold.

The value of agricultural products sold represents total sales of all crops, including nursery products sold, and livestock, 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. Sales of forest products were not included in 1978 or 1982; but were included in 1974

The value of crops sold in 1982 does not necessarily represent the sales from crops harvested in 1982. Data may include sales from crops produced in earlier years and exclude some crops produced in 1982, but held in storage and not sold. For commodities, such as sugar beets and wool, sold through a co-op which made payments in several installments, respondents were requested to report only the total value received in 1982.

The value of agricultural products sold was collected from all operators. If the operator failed to report, 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 used when comparing sales in 1982 with sales reported in earlier censuses due to the fluctuations in perunit prices between census years.

Income from machine work, customwork, and other agricultural services—This category consists of gross income received during 1982 by farm operators for providing services for others such as planting, plowing, spraying, harvesting, etc. Income from machine work and other agricultural services is generally included in the agriculture census if it is supplemental to the farming operation. However, it is excluded if it constitutes a separate establishment or is conducted from another location. The agricultural services part of a farming operation was generally considered a separate establishment when income from agricultural services was \$10,000 or more and greater than the value of agricultural products sold. Due to legislative restrictions, data for establishments primarily engaged in agricultural services were not collected in 1982.

Agricultural chemicals used, including fertilizer and lime—For each type of agricultural chemical, the acres treated were to be reported only once. If multipurpose chemicals were used, the acres treated for each purpose were to be reported.

Fish and other aquacultural products—The raising of fish and other aquacultural products in captivity is included in the agriculture census. Production in salt water is considered not to be in captivity and is excluded from the census. The value of fish and other aquacultural products sold and laboratory animals

sold is included in the category "other livestock and livestock products."

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. 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-In the 1982 census, reports for selected citrus caretakers in Arizona, Florida, and Texas were obtained by direct enumeration. A citrus caretaker is an organization or person caring for or managing citrus groves for others. 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 census report. 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 acres of citrus. The names on the lists were matched to completed grove owners' report forms 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 the citrus again. In the 1982 census, 8 caretakers in Arizona reported 210 grove owners having 13,000 acres of citrus; the 99 caretakers in Florida reported 5,900 grove owners having 250,000 acres of citrus; and 21 caretakers in Texas reported 1,500 grove owners having 30,000 acres of citrus.

Crop year or season covered—Acres and quantity harvested are for the calendar year 1982 except for citrus fruits, avocados, olives; vegetables in Florida; sugarcane in Florida and Texas; and pineapples and coffee in Hawaii.

Citrus fruits—The data for Florida relate to the quantity harvested in the September 1981 through July 1982 harvest season, except limes that were harvested in the April 1982 through March 1983 harvest season. The data for Texas relate to the quantity harvested in the September 1981 through May 1982 harvest season. The data for States, other than Florida and Texas, relate to the quantity harvested in the 1981-82 harvest season.

Avocados—The data for California relate to the quantity harvested in the November 1981 through November 1982 harvest season and for Florida the April 1982 through March 1983 harvest season.

Olives—The data for California relate to the quantity harvested in the September 1981 through March 1982 harvest season.

Vegetables—The data for Florida relate to the crop harvested in the September 1981 through August 1982 harvest season.

Sugarcane for sugar—The data for Florida relate to the cuttings from November 1981 through April 1982, and for Texas the cuttings from October 1981 through April 1982.

*Pineapples*—The data for Hawaii relate to the quantity harvested in the year ending May 31, 1982.

Coffee-The data for Hawaii relate to the 1981-82 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; and in Hawaii, taro, ginger root, and lotus root. Totals for crops reported in 10ths 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 crop 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, or cropland idle.

Corn and sorghum hogged or grazed were to be reported as "cropland harvested" and not as "cropland used only for pasture or grazing." Crop residue left in fields and later hogged or grazed was not to be reported as cropland pasture.

Quantity harvested was not obtained for crops such as vegetables; nursery and greenhouse products; corn cut for dry fodder, hogged or grazed; and sorghum, hogged or grazed.

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 and the individual abandoned orchard crop acres were not to be reported.

Land in orchards—This category includes land in bearing and nonbearing fruit trees, citrus or other groves, vineyards, and nut trees of all ages, including land on which all fruit crops failed. Respondents were instructed not to report abandoned plantings and plantings of less than 20 total fruit, citrus, or nut trees, or grapevines.

Crop units of measure—The regional report forms allowed the operator to report the quantity of field crops harvested in a unit of measure commonly used in the region. When the operator reported in a unit of measure different than the unit of measure published, the quantity harvested was converted to the published unit of measure.

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 is published in pounds.

Write-in crops—To reduce the length of the report form, only the major crops for the region were prelisted. For 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. 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. 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, 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 significant acres of unusual crops for the area were, examined to minimize the possibility that they were in error.

Changes in crop wording—Changes were made to the wording of selected crop items on the 1982 census forms. These items are listed with the wording used in 1978. The 1982 and 1978 data are comparable for all items, except improved pecans and wild and seedling pecans which were combined.

Dry edible beans, excluding dry limas—The 1978 wording was "dry field and seed beans."

Dry edible peas—The 1978 wording was "dry field and seed peas". Dry edible peas exclude Austrian winter peas, wrinkled seed peas, and southern peas or cowpeas.

Green cowpeas and green southern peas; cowpeas and southern peas for dry peas—The wording for these items was changed for 1982 to include the term "southern peas," a more common term for cowpeas.

Honey tangerines-The 1978 wording was "murcotts.".

Other tangerines—The 1978 wording was "tangerines and mandarins."

Pecans—The 1978 categories "improved pecans" and "wild and seedling pecans" have been combined into "pecans" for 1982.

### "See text" References

Items in the tables which carry the note "See text" are explained or defined in this section.

Data are based on a sample of farms—For 1982 and 1978, selected data were collected from only a sample of farms. These data are subject to sampling error. For 1982, the 5-page sample form was mailed to all large and specialized farms (based on expected

sales, acres, or standard industrial classification), all farms in Alaska and Hawaii, and approximately 17 percent of all other farms. Sample sections 22 through 28 of the 1982 census forms include inquiries on commercial fertilizer and lime, chemicals, interest expense, machinery and equipment, expénditures for energy and petroleum products, selected production expenses, and value of land and buildings.

Principal source of irrigation water—The acres irrigated by principal source were derived based on reported percentages of water obtained by source. See appendix C for an example of section 11, Land Irrigated. When irrigation water was obtained from two or more sources, the acres irrigated were included only once under the source from which the largest percentage of water was obtained.

1974 data apply only to individual or family operations (sole proprietorships) and partnerships—For 1974, farm operator characteristics were not collected from corporations, cooperatives, prison farms, grazing associations, and Indian reservations. For 1982 and 1978, characteristics and occupation of the senior partner or person in charge were collected from all farms.

Farms operated by Black and other races—This category includes Blacks, American Indians, Asian and Pacific Islanders, and all other racial groups other than White.

All other races—This category is primarily limited to persons native to or of ancestry from Mexico, the Caribbean, and Central and South America.

Farms reporting no interest expense—This category includes only reports without dollars reported and the "no" box checked for the yes/no screening question in section 24. See appendix C for an example of section 24, Interest Expense.

Total sales—This item represents the gross market value of all agricultural products sold before taxes and expenses in the census year including livestock, poultry, and their products; and crops, including nursery products, and hay. Respondents we're asked to include landlords' and contractors' shares. As in prior census years, the value of commodities placed in CCC loans are included as sold. Sales of forest products were not included in 1978 or 1982. The 1974 data included sales of forest products from those places qualifying as farms through other agricultural production.

Farms with sales of less than \$2,500—In 1982 and 1978, this category included all farms, except abnormal farms, with actual sales of less than \$2,500. In 1974, farms with sales of less than \$2,500 but having the production potential for sales of \$2,500 and over are included in the category "\$2,500 to \$4,999."

Farms with sales of less than \$1,000—This category includes all farms, except abnormal farms, with actual sales of less than \$1,000 but having the production potential for sales of \$1,000 or more.

Abnormal farms—This category includes institutional farms, experimental and research farms, and Indian reservations. Institutional farms include those operated by hospitals, peni-

tentiaries, churches, schools, grazing associations, government agencies, etc. In prior censuses, a number of nongovernmental units such as church farms and FFA camps were classified as abnormal farms. In 1982, such nongovernmental units were classified as abnormal farms only when 50 percent or more of their products produced and intended for human consumption were utilized by the organization.

Value of agricultural products sold directly to individuals for human consumption—This category 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. It excludes nonedible products such as nursery products, cut flowers, wool, etc. Sales of agricultural products by vertically integrated operations through their own processing and marketing operations were excluded.

Other livestock and livestock products—This category includes all livestock and livestock products not listed separately.

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 State average prices. 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 Statistical Reporting Service, USDA. Prices applied to other livestock and poultry were census-derived averages based primarily on reported value of sales in the census.

Poultry hatched—This category includes all poultry hatched during the year and placed or sold. Incubator egg capacity on December 31, 1982, is tabulated under the column heading Inventory and the number of poultry hatched is under the heading Sales.

Worms—Worm inventory consists of the number of standard worm beds in production. A standard worm bed is considered to be 24 cubic feet. Sales of worms are shown in pounds. Sales of worm castings are included in other livestock products sold.

Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc.—Data shown for hay represent all hay crops, including grass silage, haylage, and hay crops cut and fed green (green chop). 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.

Tame hay other than alfalfa, small grain, and wild hay—Data shown represent dry tons of hay harvested from clover, lespedeza, timothy, Bermuda grass, Sudan grass, and other types of legume and tame grasses.

Grass silage, haylage, and green chop hay—The 1978 categories "grass silage and haylage" and "hay crops cut and fed green (green chop)" have been combined into "grass silage, haylage, and green chop hay" in 1982.

Grapes—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. The conversion used was 4.3 pounds fresh weight to 1 pound dry weight.

Plums and prunes—Farm operators were given the option of reporting the quantity of plums and prunes harvested in dry weight or fresh weight. For publication purposes, all quantities of plums and prunes harvested have been converted to pounds fresh weight. The conversion used was 3 pounds fresh weight to 1 pound dry weight.

Almonds—In 1982, the quantity of almonds harvested was reported in pounds of meats. For 1978, the quantity harvested was reported in the shell.

Other fruits and nuts—Data shown for other fruits and nuts relate to any fruits and nuts not having a specific code on the 1982 report form.

Land used for vegetables—Data are for 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.

Vegetables harvested for sale—The acres of vegetables harvested is the summation of the acres of individual vegetables harvested. All of the individual vegetable items may not be shown.

Nursery and greenhouse products grown for sale—These data are a summation of the individual items reported. All of the individual items may not be shown.

Other grains—These data are for the total market value of other grains sold including dry edible beans, dry lima beans, buckwheat, cowpeas and southern peas for dry peas, emmer and spelt, flaxseed, mixed grains, lentils, mustard seed, dry edible peas, popcorn, proso millet, rice, rye for grain, safflower, sunflower seed, triticale, and wild rice.

Value of crop production—This item represents the estimated value of all crops harvested during the 1982 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 Statistical Reporting Service, USDA. When USDA estimates were not available, Bureau of the Census statisticians made estimates using available sources such as data from adjacent States, respondent report forms, county extension agents, and other persons knowledgeable about specific crops.

# FARMS CLASSIFIED BY SPECIFIED CHARACTERISTICS

U.S. tables 44 through 50 present detailed 1982 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. 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 1982, all farms except abnormal farms were tabulated by size based on reported sales. Thus, the category "farms with sales of \$2,500 to \$4,999" included only farms with actual sales of \$2,500 to \$4,999. Abnormal farms were not tabulated based on actual or potential sales. The category "farms with sales of less than \$1,000" included all farms, except abnormal farms, with actual sales of less than \$1,000 but having the production potential for sales of \$1,000 or more.

The sales size categories have been changed to be consistent with the standard business size categories issued by the Office of Management and Budget in 1982. Sales size categories "\$100,000 to \$249,999" and "\$250,000 to \$499,999" are used in this report; whereas, sales size categories "\$100,000 to \$199,999" and "\$200,000 to \$499,999" were used in prior censuses. In U.S. table 11 and State table 3, the 1978 census data have been retabulated into the new sales size categories.

Farms by tenure of operator—The classifications of tenure used in the 1982 census were:

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.

Farms by type of organization—All farms were classified by type of organization in the 1982 census. 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.

Corporations were subclassified by two additional characteristics into:

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

Farms by age and principal occupation of operator—Data on age and principal occupation were obtained from all operators in 1982. The principal occupation classifications used were:

Farming—The operator spent 50 percent or more of his/her worktime in 1982 in farming or ranching.

Other—The operator spent more than 50 percent of his/her worktime in 1982 in occupations other than farming or ranching.

Farms by size—All farms were classified into selected size groups according to the total land area in the farm. 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.

Farms by standard industrial classification—In 1982, all agricultural production establishments (farms, ranches, nurseries, greenhouses, etc.) were classified by type of activity or activities using the standard industrial classification (SIC) system. These classifications, found in the 1972 SIC Manual<sup>1</sup>, 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 4-digit industry and 3-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 is 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.

Characteristics of all farms by selected SIC groupings are shown in U.S. tables 15 and 50. The SIC groupings shown in U.S. table 50, together with the associated products (value of sales representing 50 percent or more of the value of agricultural products sold during the year) on which the classification is based, are as follows:

Cash grains (011)—Wheat, rice, corn, soybeans, barley, buck-wheat, cowpeas, dry field and seed beans and peas, emmer, field seeds, flaxseed, lentils, mustard seed, oats, popcorn, rye, safflower, sorghum, and other small grains.

Cotton (0131)-Cotton and cottonseed.

Tobacco (0132)-Tobacco.

Sugar crops, Irish potatoes, hay, peanuts, and other field crops (0133, 0134, 0139)—Sugarcane, sugar beets, Irish potatoes, alfalfa, broomcorn, clover, flax, hay, hops, mint, peanuts, sweetpotatoes, and timothy.

Vegetables and melons (016)—Vegetables and melons grown in the open.

Fruits and tree nuts (017)—Berries, grapes, tree nuts, citrus fruits, deciduous tree fruits, avocados, dates, figs, olives, pineapples, and tropical fruit.

Horticultural specialties (018)—Ornamental plants; nursery products, such as bulbs, florists' greens, flowers, shrubbery, flower and vegetable seeds and plants, and sod; mushrooms and vegetables grown under cover.

General farms, primarily crops (019)—Crops, including horticultural specialties, but less than 50 percent of sales from any single 3-digit industry group. Includes farms with no agricultural products sold reporting cropland harvested or cropland on which all crops failed.

Livestock, except dairy, poultry, and animal specialties (021)—Cattle, calves, hogs, sheep, goats, goat's milk, wool, and mohair.

<sup>&</sup>lt;sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

Beef cattle, except feedlots (0212)—Production or feeding of beef cattle, except feedlots.

Dairy farms (024)—Production of cows' milk and other dairy products and raising of dairy heifer replacements.

Poultry and eggs (025)—Chickens, chicken eggs, turkeys, duck, geese, pheasants, pigeons, and quail.

Animal specialties (027)—Fur-bearing animals, rabbits, horses, ponies, bees, fish in captivity except fish hatcheries, worms, and laboratory animals.

General farms, primarily livestock (029)—Livestock and livestock products, including animal specialties, but less than 50 percent of sales from any single 3-digit industry group. Includes farms with no agricultural products sold reporting livestock or pasture.

#### STATISTICAL ADJUSTMENTS

The 1982 Census of Agriculture used two types of statistical adjustments—nonresponse and sample. These adjustments were necessary because, as noted previously, not all farms were surveyed for all items and some farms failed to respond to the numerous attempts to contact them.

#### Nonresponse

Farms for which no response was obtained from the mailout/mailback self-enumeration procedure were classified as "large" or "small" based on expected sales being above or below \$100,000. The small nonrespondents were classified even further using other mail list characteristics.

A short report form was then sent to a sample selected from the various classifications of small farms to obtain information needed to develop a State estimate of the number of nonrespondents that were in fact farms. If this second report form was not returned, then a telephone follow-up was attempted.

For all large farms, a telephone follow-up was conducted. Some operators could not be contacted or they refused to cooperate. In these cases, secondary sources such as ASCS county offices, extension agents, and previous census reports were utilized whenever possible to provide reports for tabulation.

State estimates of the percentage of nonrespondent farms were made for several strata. These estimates were then used to make estimates at the county level for each stratum. Respondent farms were then randomly selected within county stratum to represent the nonrespondent farms by having a nonresponse weight of two. All other respondent farms had a nonresponse weight of one.

The nonresponse adjustment procedure makes the assumption that the respondents and the nonrespondents have similar statistical properties. Also, the use of secondary sources for some large farms and the fact that a percentage of the sampled farms were not contacted by either mail or telephone is assumed not to affect the estimates for nonrespondents.

Tables A and B partially measure the effect of nonresponse on selected major items at the U.S. and State levels. This estimate

of the nonresponse rate measures only the effect of small whole farm nonresponse. The effect of the adjustment for nonresponse due to complete nonresponse among large farms and item nonresponse among all farms is not included in tables A and B. The percentages in tables A and B indicate the potential for bias in published figures resulting from small farm nonresponse. However, large farm nonresponse does not necessarily indicate bias.

#### Sample

Report forms containing additional sample inquiries (sections 22 through 28) were mailed to all farms in Alaska and Hawaii and to a sample of farms identified when the mail list was constructed. Other farms were selected into the sample with certainty because they were expected to be "large," to have a complex organizational structure, or to have special characteristics. The definition of large varied by State, from a low of 1,000 acres or \$100,000 sales to a high of 10,000 acres or \$500,000 sales. The median State level for the continental United States was 1,800 for acres and \$150,000 for sales. Large farms identified during processing also were included with certainty by sending the respondents a supplemental form containing only sample questions. In addition to large farms, all farms in counties containing less than 100 farms in 1978 and all farms in SIC groups with a small number of farms at the State level in 1978 were included in the sample with certainty. Farms in counties containing 100 to 199 farms in 1978 were sampled at a rate of 1 in 2. Farms in counties containing 200 or more farms in 1978 were sampled at a rate of 1 in 6.

The noncertainty samples were stratified into 128 strata formed by the 8 sales groups, 8 SIC groups, and 2 acre groups.

Sales	SIC	Acres
\$1 to \$999 \$1,000 to \$2,499 \$2,500 to \$4,999 \$5,000 to \$9,999	011 013 016, 018 017, 019	0 to 69 70 or more
\$10,000 to \$19,999 \$20,000 to \$39,999 \$40,000 to \$99,999 \$100,000 or more	024, 021, except 0212 0212, 027 025 029	

This post-stratification was done to improve precision and to reduce the bias in all estimates by weighting the sample farms within stratum by the ratio of total farms to sample farms. If the calculated weight was greater than 12 in counties sampled at a rate of 1 in 6, or greater than 4 in counties sampled at a rate of 1 in 2, then the post-stratum was collapsed into another post-stratum. Collapsing of post-stratum also occurred if the stratum contained fewer than 10 sample farms.

Estimates were prepared for items in sections 22 through 28 of the report form by multiplying the data item for each farm in the sample by the sample weight assigned the farm. The weight for a certainty farm was 1. Sample weights for the final post-strata ranged from 1 to 24 because all exact weights (census total number of farms divided by the number of sample farms in the stratum) were converted to integers by a simple algorithm and then multiplied by 1 or 2 (the nonresponse weight).

Table A. Percent of U.S. Total Represented by Adjustment of Whole Farm Nonresponse: 1982

	All far	ms	Farms with sales of \$10,000 or more			
Item	Total (number)	Adjustment for whole farm nonresponse (percent)	Total (number)	Adjustment fo whole farm nonrespons (percent		
Farms number	2,240,976	9.7	1,142,963	9.		
and in farms	986,796,579	4.6	811,280,541	4.:		
Value of land and buildings <sup>1</sup> \$1,000.	774,158,465 2,010,609	5.1 9.5	636,881,196 1,083,508	4. 9.		
acres.	445,362,028	6.3	396,148,576	5.:		
Harvested cropland	1,809,756	9.5	1,051,417	9.		
acres	326,306,462	5.9	306,242,220	5.0		
rrigated land farms acres	278,277 49,002,433	7.9	183,412 46,860,434	6.: 3.		
Market value of agricultural products soldfarms.	2,240,976	9.7	1,142,963	9.		
\$1,000	131,900,223	3.7	128,023,778	3.		
Crops, including nursery and greenhouse productsfarms \$1,000.	1,357,443 62,256,087	9.6	886.215 60,642,654	9. 3.		
Livestock, poultry, and their products farms.	1,516,853	9.2	796,728	8.		
\$1,000	69,644,136	3.3	67,381,124	3.		
Poultry and poultry products	114,071	8.2	65,242	6.		
\$1,000	9,796,927	1,.2	9,767,260	1.:		
Cattle and calves	1,354,992	9.2	675,509	8.8		
number	104,475,827	5.3	89,103,524	4.		
Hogs and pigsfarms.	329,833	9.9	219,088	9.		
number.	55,366,205 212,608	5.4 9.9	53,442,310 75,833	5. 9.:		
Hens and pullets of laying age	310,515,367	1.4	306,031,698	1.:		
ivestock and poultry sales:						
Cattle and calves	1,278,609	9.0 3.8	678,726   64,946,730	8. <sup>-</sup> 3.		
number Hogs and pigs farms	71,216,727 315,095	9.8	224,940	9.:		
number.	94,783,598	5.2	92,055,157	5.		
Broilers and other meat-type chickens	30,100 3,516,622,889	6.4 2.1	24,114 3,512,326,522	5.: 2.		
Crops:	3,310,022,003	2	3,312,320,322	2.		
Corn for grain or seed	715,171	9.1	546,581	8.8		
acres	69,857,993	5.5	67,603,094	5.		
bushels	7,508,721,493 446,075	5.0 9.5	7,341,316,392 367,277	4. 9.		
Wheat for grain	70,910,293	6.3	68,478,845	6. <sup>-</sup>		
bushels	2,373,246,659	5.6	2,314,386,644	5.		
Sorghum for grain or seed	93,696	9.9	80,402	9.		
acres	12,678,843   725,959,104	6.5 6.0	12,266,450 710,350,908	6. 5.		
bushels.		1	i			
Soybeans for beansfarms.	511,229   64,832,842	9.5 l 6.0	410,441 62,275,679	9.i 5.i		
acres   bushels	1,989,993,158	5.7	1,931,390,306	5.		
Hay-alfalfa, other tame, small grain, wild, grass silage,		[				
green chop, etc. (see text)	1,050,992 56,743,836	8.8 6.9	593,535 46,420,100	8. 6.		
Vegetables harvested for sale (see text) farms.	69,109	9.0	40,420,100	7.		
acres	3,330,637	2.7	3,202,559	2.		
Land in orchards	123,663 4,750,667	8.3 3.3	51,437 4,148,243	6. 2.		
Selected farm production expenses1:	4,730,007	0.0	4,140,240	<b>4.</b> :		
Livestock and poultry purchased farms	755,431	8.8	436,356	7.		
\$1,000	17,174,334	2.1	16,598,865	1.5		
Feed for livestock and poultry	1,360,243	8.7	709,719	8.		
\$1,000 Seeds, bulbs, plants, and trees	18,591,985 1,267,129	2.7 9.0	17,894,560 877,336	2. 8.		
\$1,000 [	3,171,752	4.7	3,048,400	4.		
Commercial fertilizer	1,443,766	8.7	900,740	8.		
\$1,000.	7,689,365	4.2	7,320,340	4.		
Other agricultural chemicals	1,125,436 4,282,213	8.7 3.8	8l5,919 4,155,137	8. 3.		
Hired farm labor	869,837	7.6	606,221	6.		
\$1,000	8,441,180	1.9	8,155,828	1.		
Energy and petroleum products farms.	2,224,624	9.1	1,139,759	8.		
\$1,000	9,973,865	4.9	9,286,502	4.		
Interest expense	1,050,104 11,668,942	9.0 4.3	752,584 10,947,898	8. 3.		
		i i				
Estimated market value of all machinery and equipment on place'	2,234,365	9.1	1,141,005	8.		

<sup>&</sup>lt;sup>1</sup>Data are based on a sample of farms.

Table B. Percent of U.S. and State Totals Represented by Adjustment of Whole Farm Nonresponse: 1982

Geographic area	Farms (number)	Land in farms (acres)	Value of land and buildings¹	Harvested cropland (acres)	Market value of agricultural products sold	Cattle and calves inventory (number)	Hogs and pigs inventory (number)	Hens and pullets of laying age inventory (number)	Corn for grain or seed (acres)	Wheat for grain (acres)
United States	9.7	4.6	5.1	5.9	3.7	5.3	5.4	1.4	5.5	6.3
Alabama	8.8	6.1	5.4	6.4	4.0	6.1	7.2	2.3	6.5	5.9
Alaska	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(D)	0.0	0.0
Arizona	10.0	0.3	2.5	1.6	0.7	1.3	1.3	0.8	2.0	0.8
Arkansas	7.3	4.7	4.2	3.9	3.2	5.9	3.1	2.9	3.0	3.6
California	6.5	1.1	2.1	1.3	0.7	1.1	4.6	0.2	0.6	0.8
Colorado	6.7	2.0	2.9	3.2	1.2	1.8	3.8	0.3	1.7	2.9
Connecticut	9.3	6.0	8.2	4.7	1.5	2.9	7,9	0.1	5.0 4.9	0.0 5.5
Delaware	11.5	6.1	7.3	5.6 2.8	1.9	3.6 2.6	4.8 7.1	2.5 0.7	5.3	4.9
Florida	7.0	2.0 6.0	2.4 5.5	5.7	1.3 3.5	6.1	6.2	1.6	5.9	5.4
Georgia	10.3									
Hawaii	8.7	0.5 2.9	2.3 3.4	0.7	0.6 2.1	1.2 3.9	3.4 6.6	(D) 0.4	0.2 4.7	0.0 3.0
Idaho	6.6	2.9 6.0	3.4 5.3	3.6 5.6	2.1 4.6	3.9 5.8	5.0	0.4 2.5	4.7 5.0	7.6
Illinois	10.6 7.9	5.1	4.5	4.7	3.7	5.1	3.6	0.5	4.3	5.2
Indiana	7.9 8.5	5.3	4.5	4.9	3.7	4.6	4.3	2.4	4.7	7.0
Kansas	12.5	8.1	7.7	8.4	4.3	5.7	6.7	3.1	4.9	8.9
Kentucky	10.6	8.2	7.6	7.1	6.4	7.9	5.2	1.1	6.5	5.8
Louisiana	12.2	6.0	6.6	5.9	4.5	8.1	9.8	3.2	4.8	6.3
Maine	7.8	5.3	4.4	4.3	1.8	3.7	10.5	(Z)	0.5	7.6
Maryland	11.8	6.7	6.7	5.3	3.0	5.8	3.3	1.1	4.6	4.6
Massachusetts	10.7	6.5	7.0	5.7	3.0	4.5	10.7	0.7	2.7	0.0
Michigan	10.1	7.1	6.4	6.7	4.7	6.1	5.3	1.3	6.1	7.0
Minnesota	12.8	8.9	7.5	8.4	7.2 3.0	9.7 7.5	7.9 7.1	2.6 4.0	8.2 7.1	7.1 4.2
Mississippi	10.6 9.6	5.8 7.2	5.2 6.7	4.5 6.9	5.9	7.5	6.6	1.9	6.1	6.5
Missouri	7.8	3.1	4.2	4.6	3.6	3.8	4.3	0.7	5.8	4.8
Montana	10.0	4.5	4.8	5.9	3.5	3.8	5.8	1.2	5.2	6.9
Nevada	10.2	0.8	2.7	2.9	2.3	2.8	2.1	7.8	0.0	1.3
New Hampshire	7.7	4.9	5.4	4.0	1.9	2.9	14.7	0.3	1.7	(D)
New Jersey	9.5	5.7	6.8	4.9	2.8	5.5	6.5	1.5	4.5	4.3
New Mexico	10.7	1.6	3.3	6.2	2.1	2.8	4.3	(D)	2.5	7.1
New York	10.8	7.6	6.6	6.6	4.8	6.6	8.8	0.9	4.7	5.1
North Carolina	7.3	5.0	4.6	4.9	3.4	4.4	2.8	1.9	4.6	4.8
North Dakota	10.1	6.3	5.2	6.3	5.5	7.3	6.7 6.5	4.5 1.4	3.4 6.5	6.6 7.1
Ohìo	10.1	7.3	6.5 7.0	6.9 8.2	5.5 5.3	6.9 6.9	8.2	2.6	2.6	8.3
Oklahoma	10.3 10.6	7.2 2.1	4.8	3.4	2.8	3.9	6.6	0.5	2.0	2.2
Oregon	9.4	7.5	6.7	6.9	4.4	6.8	5.2	0.8	5.8	6.4
Pennsylvania	11.0	7.1	5.7	5.4	3.0	7.2	13.1	(D)	7.9	(D)
South Carolina	8.8	5.3	5.1	5.4	3.5	5.3	4.5	0.4	5.0	5.1
South Dakota	11.8	5.0	5.7	7.5	6.1	6.5	8.8	3.6	8.2	6.4
Tennessee	10.9	7.9	7.5	6.8	5.7	7.7	7.0	2.2	7.3	5.7
Texas	10.6	3.8	5.5	5.9	2.5	4.8	5.0	1.0	3.2	6.7
Utah	9.5	2.5	4.4	5.0	3.1	4.2	6.3	0.2	3.6	3.5
Vermont	5.1	3.1	2.4	2.4	1.3	1.8	9.2	0.4	1.2	0.0 5.9
Virginia	9.4	6.5	6.4	5.9	3.8	5.8	4.6	3.0 0.2	5.1	1.6
Washington	8.5	1.9	3.4	2.4	1.7	3.4 6.5	7.1 5.8	0.2 3.5	1.1 5.4	11.2
West Virginia	7.2 9.5	6.3 7.5	5.9 6.3	6.2 7.0	3.9 6.2	7.7	5.8	1.6	6.1	4.6
Wyoming	9.5 8.5	1.8	3.7	5.3	3.0	3.5	4.7	6.7	4.3	6.2
,	2.0									<u> </u>

¹Data are based on a sample of farms.

#### NONSAMPLING ERRORS

Each census or survey is subject to error. In addition to sampling variability, errors arise from nonsample sources such as incorrect or incomplete reporting, processing, and the inability to obtain a report from each eligible reporting unit. For example, an operator may report the number of hogs and pigs sold but may not report the value of the sale. In other cases, the respondent indicated the presence of an item but not the quantity. The accuracy of a census count is determined by the joint effects of sampling and nonsampling errors. Thus, extensive efforts were made to keep errors introduced during clerical and electronic processing to a minimum level through the use of quality control, verification, and check measures on specific operations.

#### **CENSUS COVERAGE**

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

An evaluation of coverage has been conducted for each census of agriculture since 1945. Although the primary purpose of these evaluations is to identify problem areas and supply evidence as a basis for improvements, they also provide users of census data with estimates of the completeness of the census counts. The results of the coverage evaluation study were published for the 1978 census in Volume 5, Special Reports, part 3. An evaluation of coverage was conducted in 1982 to measure the extent of the undercount and overcount of farms in the census. A description of this evaluation will be in a separate Coverage Evaluation report. This report includes estimates of the percentage of all farms, acres, and sales missed in the census.

#### Classification Problems

In 1982, the proportion of farms missed due to misclassification (about 3 percent) was higher for farms with small values of sales. The rate of misclassification was higher on (1) livestock farms than crop farms, (2) farms with a small number of acres than larger farms, or (3) full-owner farms than tenant or partowner farms. Full owners were misclassified more often than part owners. Farm operators over 55 years of age were misclassified more often than younger operators.

An evaluation study of classification errors was conducted in the 1982 Census of Agriculture and will be reported in **Coverage Evaluation**. A sample of mail list respondents was selected, and these addresses reenumerated to determine whether they were a farm or nonfarm. Two types of errors were identified; misclassified farms and overcounted farms. Misclassified farms were farm operations included on the mail list but classified in the census as nonfarms. Overcounted operations were nonfarm operations classified in the census as farms.

#### Mail List Problems

A major problem with the use of a mail list is the failure to include all farms on the list. In 1982, approximately 10 percent of all farms were not included on the census mail list. There were several reasons for the farm operator's names not being included on the mail list—the operation may have been started after the mail list source was developed; the operation may not have been included on any source list used to construct the mail list; or the operation may have been removed from the list because of incorrectly identifying duplicates or falsely classifying it as a nonfarm prior to mailout.

A great many of the farms not included on the mail list were small in both acres and sales. The operator in many cases had a full time off-farm job and farmed part time. In 1982, the average size of farms and sales for census published farms and farms not on the mail list is given below. These figures are subject to final review for the **Coverage Evaluation** report.

#### Average size

p	Census ublished farms	Farms not on mail list
Land (acres)	439 \$58,816	58 \$5,774

#### **RELIABILITY OF CENSUS ESTIMATES**

The sources of possible sampling and nonsampling errors have been previously discussed. Some sources affected all the data; others affected only certain items or geographic levels. The results of these errors, bias and increased variability, are difficult to measure.

Census items were classified as either 100-percent or sample items. The 100-percent items were those asked of all farm operators. These included land in farms, harvested cropland, livestock inventory and sales, and crop acreages and quantities (sections 1 to 21 of the census report form). Variability in the 100-percent items is due to the variation associated with nonresponse imputation and response error. Estimation of this variation results in a standard error of an estimate originating in the selection of the sample of small nonrespondents at the State level. Sample items were items asked of approximately 1 in 4 farm operators and include value of land and building, value of farm machinery, energy expenses, and selected farm production expenses, such as hired farm labor and interest expense (sections 22 to 28 of the census report form). Variability in estimates of sample items is the effect of the sample selection and estimation procedure and all the factors affecting the variability of 100-percent items.

In the 1982 Census of Agriculture, the sample used is one of a large number of all possible samples of the same size that could have been selected using the same sample design. Estimates derived from the different samples would differ from each other. The difference between a sample estimate and the average of all possible samples is called the sampling deviation. The standard or sampling error of a survey estimate is a measure of the variation among the estimates from all possible samples, and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The relative standard error of estimate (percent) is defined as the standard error of the estimate divided by the value being estimated.

As calculated for this report, the standard error of the estimate (percent) partially measures the effect of certain non-sampling errors but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples, between the estimate and the desired value. The accuracy of a survey result depends on both the sampling and nonsampling errors measured by the relative standard error of the estimate (percent) and the bias and other types of non-sampling error not measured.

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

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

To illustrate the computations involved in the above confidence statements as related to average value of land and building estimates, assume that an estimate of a average value of land and buildings published for a particular State is \$276,741 and the relative standard error of the estimate (percent) for this estimate, as given in table D, is 2.8 percent, or 0.028. Multiplying \$276,741 by 0.028 yields \$7,749. Therefore, a 67-percent confidence interval is \$268,992 to \$284,490 (i.e., \$276,741 plus or minus \$7,749). If corresponding confidence

intervals were constructed for all possible samples of the same size and design, approximately 2 out of 3 (67 percent) of these intervals would contain the figure obtained from a complete enumeration. Similarly, a 95-percent confidence interval is \$261,243 to \$292,239 (i.e., \$276,741 plus or minus  $2 \times $7,749$ ).

Table C presents U.S. estimates of major items for all farms and for all farms with sales of \$10,000 or more and measures of their reliability. The estimate and the relative standard error of the estimate (percent) is given for selected 100-percent and sample items. The relative standard error of the estimate (percent) measures the variation associated with the small whole farm nonresponse adjustment. It does not measure census variability associated with complete nonresponse among large farms, partial or item nonresponse among all farms, response error or content error. The relative standard error of estimate (percent) for sample items measures both nonsampling and sampling error. It measures the variation associated with selecting a sample to estimate sample items as well as variability associated with adjustment for small farm nonresponse. The reliability of State estimates may vary substantially from each other and will usually be larger than the U.S. estimate.

Table D presents the estimate of reliability at the State level for nine major 100-percent items and six sample items. The relative standard error of the estimate (percent) for the same item differs among States. Reasons for this are: (1) differences among States in the total number of farms, (2) the number of large farms included with certainty, (3) the size classifications of farms sampled, (4) the amount of nonresponse, (5) the general agricultural characteristics, and (6) the specific characteristic being measured.

Table C. Estimates of Reliability of U.S. Totals for Selected Items: 1982

	All fa	rms	Farms with sales of	\$10,000 or more
ltem	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)
Farmsnumber.	2,240,976	0.02	1,142,963	0.02
Land in farms	986,796,579	0.03	811,280,541	0.02
Value of land and buildings1, average per farmdollars.	345,869	0.13	557,636	0.14 0.02
Total cropland	2,010,609 445,362,028	0.02 0.02	1,083,508 396,148,576	0.02
Harvested cropland	1,809,756	0.02	1,051,417	0.02
acres	326,306,462	0.02	306,242,220	0.02
Irrigated land	278,277	0.04	183,412	0.04 0.03
acres	49,002,433	0.03	46,860,434	
Market value of agricultural products sold	2,240,976 131,900,223	0.02 0.02	1,142,963 128,023,778	0.02 0.01
Crops, including nursery and greenhouse productsfarms.	1,357,443	0.02	886,215	0.02
\$1,000.	62,256,087	0.02	60,642,654	0.01
Livestock, poultry, and their products farms	1,516,853	0.02	796,728	0.02
\$1,000	69,644,136 114,071	0.02 0.02	67,381,124 65,242	0.01 0.03
Poultry and poultry products	9,796,927	0.02	9,767,260	0.02
Livestock and poultry inventory:				
Cattle and calves	1,354,992 104,475,827	0.02 0.02	675,509 89,103,524	0.02 0.02
number Hogs and pigs farms	329,833	0.02	219,088	0.02
number	55,366,205	0.02	53,442,310	0.02
Hens and pullets of laying agefarms	212,608	0.02	75,833	0.02
number	310,515,367	0.02	306,031,698	0.02
Livestock and poultry sales:  Cattle and calves	1,278,609	0.02	678,726	0.02
number	71,216,727	0.02	64,946,730	0.01
Hogs and pigs farms	315,095	0.02	224,940	0.03 0.02
number  Broilers and other meat-type chickens farms	94,783,598 30,100	0.02 0.04	92,055,157 24,114	0.02
number.	3,516,622,889	0.04	3,512,326,522	0.04
Crops:	745 474	0.00	540 501	0.00
Corn for grain or seed	715,171 69,857,993	0.03 0.02	546,581 67,603,094	0.03 0.02
bushels	7,508,721,493	0.02	7,341,316,392	0.02
Wheat for grain	446,075	0.03	367,277	0.03
acres	70,910,293	0.04 0.03	68,478,845 2,314,386,644	0.04 0.03
bushels Sorghum for grain or seed	2,373,246,659 93,696	0.06	80,402	0.06
acres	12,678,843	0.05	12,266,450	0.05
bushels	725,959,104	0.05	710,350,908	0.05
Soybeans for beansfarms	511,229	0.03	410,441	0.03
acres	64,832,842	0.03 0.02	62,275,679 1,931,390,306	0.02 0.02
bushels Hay—alfalfa, other tame, small grain, wild, grass	1,989,993,158	0.02	1,831,380,300	0.02
silage, green chop, etc. (see text)farm.	1,050,992	0.02	593,535	0.02
acres	56,743,836	0.02	46,420,100	0.03
Vegetables harvested for sale (see text) farms acres	69,109 3,330,637	0.03 0.02	40,051 3,202,559	0.03 0.02
Land in orchards	123,663	0.06	51,437	0.06
acres	4,750,667	0.04	4,148,243	0.03
Selected farm production expenses <sup>1</sup> :	755,431	0.22	436,356	0.26
Livestock and poultry purchased	17,174,334	0.13	16,598,865	0.13
Feed for livestock and poultry farms	1,360,243	0.12	709,719	0.16
\$1,000	18,591,985	0.12	17,894,560	0.12
Seeds, bulbs, plants, and trees	1,267,129 3,171,752	0.12 0.15	877,336 3,048,400	0.12 0.16
Commercial fertilizer	1,443,766	0.11	900,740	0.12
\$1,000	7,689,365	0.14	7,320,340	0.15
Other agricultural chemicals	1,125,436	0.14 0.15	815,919 4,155,137	0.14 0.16
\$1,000	4,282,213		į.	
Hired farm labor	869,837	0.19	606,221 8,155,828	0.20 0.13
\$1,000  Energy and petroleum products	8,441,180 2,224,624	0.13   0.05	1,139,759	0.13
\$1,000.	9,973,865	0.10	9,286,502	0.10
Interest expense	1,050,104	0.16	752,584	0.16
\$1,000	11,668,942	0.17	10,947,898	0.18
Estimated market value of all machinery and equipment on place'	2,234,365	0.04	1,141,005	0.06
\$1,000.	93,662,947	0.13	79,451,157	0.14

<sup>&#</sup>x27;Data are based on a sample of farms.

Table D. Estimates of Reliability for U.S. and State Totals for Selected Items: 1982

	Farm	s	Land in far	ms	Average v land and b per far	uildings	Harvested cro	ppland	Market valu agricultural pr sold	
Geographic area	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
United States :	2,240,976	0.02	986,796,579	0.03	345,869	0.13	326,306,462	0.02	131,900,223	0.02
Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland	570 7,334 50,525 82,463 27,111 3,754 3,338 36,352 49,630 4,595 24,714 98,483 77,180 115,413 73,315 101,642 31,628 7,003 16,183	0.0 0.5 0.1 0.2 0.5 0.7 0.2 0.1 0.7 0.2 0.1 0.1 0.1 0.2 0.3 0.3	1,323,953 37,752,534 14,682,960 32,156,894 33,537,998 444,242 655,465 12,814,216 12,291,885 1,957,501 13,921,639 28,726,114 16,294,268 32,611,964 47,052,213 14,179,284 8,928,827 1,468,674 2,557,728	0.0 0.2 0.1 0.2 0.4 0.4 0.2 0.1 0.1 0.1 0.1 0.1 0.2 0.3 0.2	463,849 1,496,334 286,402 746,577 562,479 316,317 364,843 552,586 225,092 778,471 459,965 538,886 338,549 471,011 384,197 144,427 381,817 150,487 332,301	0.0 1.5 0.8 0.7 1.3 2.7 3.9 0.9 0.8 1.1 0.5 0.5 0.4 0.5 0.8	25,694 1,047,213 7,484,316 8,764,808 6,036,679 171,229 499,986 2,643,147 4,761,260 155,960 4,887,805 23,008,244 12,136,310 24,137,670 20,186,974 4,835,631 4,699,323 457,076 1,528,994	0.0 0.1 0.1 0.3 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	11,399 1,526,915 2,826,497 12,491,442 2,940,897 285,324 370,562 3,522,103 2,767,679 558,608 2,231,605 7,313,529 4,226,930 9,828,932 6,190,861 2,376,882 1,406,458 399,412 1,029,244	0.0 0.1 (Z) 0.1 0.2 0.3 0.1 0.1 0.1 (Z) 0.1 0.1 0.1 0.1 0.1 0.1
Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey	5,401 58,661 94,382 42,415 112,447 23,570 60,243 2,719 2,757 8,277	0.5 0.1 0.1 0.2 0.1 0.2 0.1 0.6 0.5	612,819 10,942,172 27,708,456 12,421,651 29,266,609 60,539,209 44,961,371 9,980,201 469,582 916,331	0.4 0.1 0.1 0.1 0.2 0.1 0.9 0.4	205,677 228,238 342,593 257,819 223,247 677,995 532,741 925,540 201,171 343,137	2.2 0.7 0.5 0.7 0.6 0.8 0.6 1.6 3.3 2.0	197,769 7,255,909 19,722,645 5,799,772 12,725,378 9,365,775 17,075,625 605,082 116,613 570,031	0.3 0.1 0.1 0.1 0.2 0.1 0.5 0.3 0.4	281,436 2,588,317 5,939,629 1,918,486 3,606,856 1,547,160 6,625,742 202,581 102,520 435,966	0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.3
New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina	13,484 42,207 72,792 36,431 86,934 72,523 34,087 55,535 728 24,929	0.3 0.2 0.1 0.2 0.1 0.1 0.2 0.1 1.2	47,096,085 9,189,559 10,320,832 40,206,005 15,404,054 32,369,206 17,739,782 8,297,713 62,466 5,589,799	0.3 0.1 0.1 0.1 0.1 0.3 0.1 1.5 0.2	618,708 177,988 187,840 486,939 267,899 311,642 371,644 225,794 237,141 208,524	1.0 0.8 0.8 0.6 0.5 0.7 1.4 0.8 3.4	1,297,305 4,430,198 4,659,283 20,308,135 10,396,323 8,961,353 3,305,714 4,363,789 21,252 2,474,025	0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.8 0.2	850,562 2,426,936 3,500,750 2,294,326 3,387,461 2,530,061 1,640,590 2,848,207 30,376 968,554	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.5 0.2
South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming	37,148 90,565 185,020 13,984 6,315 51,859 36,080 18,742 82,199 8,861	0.2 0.1 0.1 0.3 0.3 0.1 0.2 0.2 0.2	43,810,988 12,474,931 131,310,306 9,772,942 1,574,441 9,436,854 16,469,678 3,559,051 17,234,127 33,500,453	0.1 0.1 0.4 0.2 0.1 0.2 0.1 0.2	418,940 139,141 386,138 389,678 206,616 205,034 423,352 129,390 232,606 732,875	0.7 0.7 0.5 1.8 1.7 0.8 1.1 1.4 0.4	14,433,490 4,548,895 20,761,160 1,118,486 547,848 2,779,282 5,278,772 576,889 10,062,154 1,813,830	0.1 0.1 0.3 0.2 0.1 0.1 0.3 0.1	2,478,111 1,683,852 8,936,363 555,428 369,402 1,606,915 2,831,159 242,127 4,854,582 606,327	0.1 (Z) 0.2 0.1 0.1 0.1 0.3 0.1

See footnotes at end of table.

Table D. Estimates of Reliability for U.S. and State Totals for Selected Items: 1982-Con.

	Cattle and c	alves	Hogs and	l nige	Hens and pu	ıllets	Corn for g	rain.		<del></del>
	inventor		invent		of laying a inventor		or seed		Wheat for	grain
Geographic area	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)
United States	104,475,827	0.02	55,366,205	0.02	310,515,367	0.02	69,857,993	0.02	70,910,293	0.04
Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida	1,652,524 8,729 1,139,377 1,718,315 4,612,967 2,944,702 110,029 33,360 2,178,552	0.1 0.0 0.1 0.1 (Z) 0.1 0.2 0.3 0.1	463,840 3,741 160,816 388,388 184,577 333,370 6,915 54,411 203,231	0.2 0.0 0.2 0.1 0.2 0.2 0.7 0.4 0.3	14,787,281 (D) 500,547 19,998,930 39,456,033 2,394,995 4,818,335 742,284 13,504,800	0.1 - (Z) 0.1 (Z) (Z) (Z) 0.3 0.1	310,680 0 13,414 25,330 302,084 759,680 6,017 150,676 190,254	0.2  0.1 0.1 (Z) 0.1 0.2 0.3 0.2	474,467 97 133,681 1,667,522 928,713 2,856,126 242 56,867 94,639	0.2 0.0 0.1 0.1 (Z) 0.2 0.0 0.4
Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland	1,578,250 241,969 1,925,419 2,315,397 1,437,618 5,822,488 5,800,138 2,524,964 1,003,833 141,206 355,418	0.1 0.2 0.1 0.1 (Z) 0.1 0.1 0.2 0.3 0.2	1,317,396 49,029 80,957 5,988,994 4,298,027 14,332,644 1,708,770 869,727 55,657 8,586 179,149	0.2 0.4 0.3 0.1 0.1 (Z) 0.1 0.4 0.8 0.2	23,762,446 (D) 1,047,182 4,848,464 18,229,149 8,234,227 1,794,673 2,034,313 2,278,429 5,765,315 3,827,483	0.1 (Z) 0.1 (Z) 0.1 0.2 0.1 0.3 0.1	788,306 648 69,652 11,383,178 5,975,300 12,880,050 1,161,875 1,342,981 33,792 8,020 620,198	0.1 0.2 0.3 0.1 0.1 (Z) 0.1 0.2 0.1	995,962 0 1,507,775 1,452,686 892,929 98,688 11,664,008 527,423 379,289 805 138,204	0.2 - 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.5
Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey	102,366 1,345,793 3,377,956 1,488,148 4,664,498 2,918,599 6,530,561 559,909 69,006 94,999	0.2 0.1 0.1 0.2 0.1 0.1 0.6 0.3 0.3	39,570 1,064,073 4,473,181 223,274 3,186,443 195,949 3,963,364 15,254 6,339 53,767	0.6 0.1 0.3 0.1 0.2 0.1 0.1 2.2 0.5	1,183,226 6,604,657 11,086,345 6,008,172 5,965,825 864,277 3,303,657 22,112 506,506 869,592	0.1 0.1 0.2 0.2 0.1 (Z) 3.0 0.1 0.2	6,077 2,568,541 5,904,579 80,914 1,892,882 20,897 6,519,250 11 1,505 103,998	0.2 0.1 0.1 0.2 0.1 0.4 0.1 0.0 0.2	33 513,445 2,972,376 809,015 2,044,839 5,215,965 2,585,111 20,536 (D) 37,901	0.0 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2
New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina	1,535,348 1,781,748 890,480 1,886,961 1,619,488 4,673,900 1,618,005 1,848,087 8,997 507,279	0.2 0.1 0.2 0.1 0.1 0.2 0.1 0.9 0.2	39,485 118,378 2,047,098 260,160 2,076,768 212,510 105,174 869,389 3,030 399,810	0.2 0.2 0.1 0.2 0.1 0.2 0.2 0.2 2.8 0.2	(D) 6,942,781 15,250,598 350,323 12,015,184 4,220,459 2,852,549 20,908,636 (D) 6,800,218	0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.1	57,161 749,492 1,393,496 522,122 3,862,625 40,838 44,887 1,282,084 151 384,966	0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.1 1.4	480,418 116,994 597,539 9,818,946 1,151,219 5,972,135 1,179,942 221,454 (D) 426,528	0.6 0.1 0.1 0.1 0.1 0.2 0.2 0.1
South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming	3,925,131 2,242,905 12,611,712 855,997 355,104 1,672,006 1,321,820 455,173 4,458,683 1,509,913	0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.1	1,764,654 866,226 559,590 38,748 4,233 474,393 73,836 33,881 1,479,028 30,375	0.2 0.2 0.1 0.4 1.0 0.2 0.3 0.4 0.1	1,621,458 3,206,863 12,822,362 1,841,317 460,820 3,695,188 5,748,750 487,807 4,347,340 54,751	0.1 0.1 (Z) 0.7 0.2 (Z) 0.4 0.1	2,583,209 563,467 1,097,305 15,118 12,428 611,032 131,474 82,176 3,257,104 46,069	0.1 0.1 0.2 0.2 0.2 0.1 0.4 0.1	3,332,487 720,123 5,087,248 237,229 424 296,840 2,716,305 7,141 122,029 355,938	0.2 0.1 0.1 0.3 0.0 0.2 0.1 1.2 0.1 0.4

See footnotes at end of table.

Table D. Estimates of Reliability for U.S. and State Totals for Selected Items: 1982-Con.

		Selected farm production expenses <sup>1</sup>								Estimated market	
	Livestock and poultry purchas		Commercial fertilizer		Hired farm labor		Energy and petroleum products		value of all ma and equipm		
Geographic area	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	
United States	17,174,334	0.13	7,689,365	0.14	8,441,180	0.13	9,973,865	0.10	93,662,947	0.13	
Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida	203,688 507 250,356 272,441 855,311 987,614 24,973 37,202 165,018	0.9 0.0 0.5 0.9 0.5 0.4 2.2 1.2	110,580 1,118 60,308 131,022 427,823 77,644 7,547 19,993 217,332	1.2 0.0 0.8 1.1 0.5 1.5 1.3 3.1 0.8	87,505 1,925 156,401 164,885 1,819,323 129,180 44,278 17,893 480,444	0.7 0.0 0.5 0.9 0.3 1.1 0.7 5.5 0.5	113,393 1,559 110,215 230,684 740,089 182,864 20,636 18,092	0.7 0.9 0.7 0.4 0.8 1.5 1.9	1,167,165 18,562 407,289 1,790,270 3,873,341 1,390,665 127,424 153,587 1,084,678	0.9 0.0 1.4 0.9 0.6 1.1 1.8 2.6 0.9	
Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland	251,478 17,581 326,442 447,023 300,350 1,536,601 1,900,272 210,696 64,469 20,717 98,291	0.7 0.1 0.8 1.2 1.2 0.6 0.3 1.6 2.1 1.4 2.3	199,916 33,477 160,602 712,705 453,678 562,767 254,590 135,693 95,050 18,719 72,146	0.9 0.1 1.2 0.6 0.7 0.6 0.7 1.0 1.0	149,524 146,277 147,584 225,820 152,061 222,146 153,404 166,518 107,345 44,906 68,545	0.8 (Z) 1.1 1.0 1.0 1.1 0.7 1.0 0.9 1.3	188,261 24,155 171,675 566,906 329,608 668,410 412,767 164,611 139,294 26,422 61,336	0.7 0.2 0.9 0.4 0.5 0.4 0.5 0.6 0.8 1.1	1,535,877 190,230 1,454,150 6,092,937 3,464,195 6,731,271 3,830,616 2,233,182 1,373,382 236,527 660,519	0.9 1.1 0.5 0.7 0.5 0.7 0.7 1.0 2.0	
Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey	11,468 170,034 557,597 134,197 383,293 165,312 1,760,168 28,749 4,013 13,577	5.7 1.4 1.1 1.4 1.1 1.6 0.4 2.9 8.4 4.5	7,155 242,091 374,854 114,525 255,645 79,823 325,124 5,587 2,767 26,140	1.9 0.7 0.6 1.0 0.8 1.2 0.7 3.3 2.5	43,109 186,312 207,615 137,400 141,232 84,462 167,515 20,438 13,626 62,380	1.1 0.8 1.0 0.6 1.0 1.3 0.9 1.8 3.4	22,993 228,553 533,461 163,781 307,035 157,696 473,263 23,055 9,114 37,127	2.0 0.5 0.4 0.6 0.5 0.8 0.5 1.1 1.2	153,346 2,676,343 5,719,009 1,485,514 3,418,269 1,567,780 4,088,785 143,648 77,239 300,165	2.2 0.7 0.6 0.8 0.6 1.0 0.7 3.3 2.4	
New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina	227,193 95,488 229,516 103,704 244,491 626,108 159,787 261,842 1,271 53,566	1.3 1.6 0.8 2.3 1.2 0.6 1.7 1.1 5.8	18,245 109,479 238,315 159,111 357,480 116,377 104,674 127,808 1,125 97,736	1.8 0.8 1.0 0.7 0.6 1.1 1.2 0.8 2.0	61,178 246,022 245,364 76,864 166,229 98,335 179,512 224,174 5,559 79,734	0.8 0.7 0.8 1.1 0.8 0.9 0.9 0.6 0.4 1.0	66,893 201,876 278,039 285,435 282,743 209,642 121,046 201,054 2,375 85,396	0.9 0.6 0.6 0.5 0.5 0.6 0.7 0.5 1.4	430,983 2,006,892 2,097,628 3,063,883 3,419,931 2,323,995 1,256,603 2,141,296 18,824 761,038	1.8 0.7 0.8 0.7 0.6 0.8 1.1 0.8 2.1	
South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming	446,010 127,847 2,356,028 80,313 16,157 161,849 347,434 30,135 261,923 144,233	1.0 1.7 0.3 2.0 2.0 1.2 0.6 3.1 1.5	79,742 124,921 367,989 10,327 8,919 116,005 174,198 10,226 262,517 17,752	1.1 1.0 0.8 2.3 1.2 0.9 1.0 1.7 0.6 2.5	67,414 109,251 480,462 42,066 28,865 126,893 313,100 20,340 279,154 40,613	1.2 0.9 0.6 1.8 1.3 0.9 0.8 1.3 0.7 2.0	256,668 128,069 730,472 48,661 25,344 121,473 171,793 20,226 382,519 53,636	0.6 0.6 0.5 1.1 1.0 0.7 0.7 1.1 0.4	2,248,595 1,870,910 5,603,585 472,803 274,844 1,396,216 1,652,940 301,305 4,410,681 464,030	0.8 0.7 0.6 1.4 1.2 0.9 0.8 1.4 0.5	

<sup>&</sup>lt;sup>1</sup>Data are based on a sample of farms.

# APPENDIX B. Effect of the Area Sample on Census Comparability

The 1982 and 1978 Censuses were conducted primarily by mail. Despite every effort to assemble a complete list, a small portion of the Nation's farms were not included on the census mail list. To improve the coverage of the 1978 Census, especially in counting the number of small farms, the mail-out/mail-back enumeration was supplemented by the direct enumeration of all households in a sample of areas in all States, except Alaska and Hawaii. Due to budget reductions, the direct enumeration sample was eliminated in the 1982 Census.

In late 1978, enumerators visited all households in approximately 6,400 segments in rural areas (areas with less than 2,500 population) and completed a census form for each agricultural operation. These forms were then matched to the census mail list. Data from those cases which were not matched to the mail list were used to estimate the number and characteristics of farms not on the mail list at the State, regional, and national levels. No county-level estimates were developed because the area sample size was insufficient for reliable estimates at that level.

The U.S., region, and State data for 1978 shown in the 1978 Census of Agriculture publications included data for farms represented on the mail list plus estimates from the area sample for farms not on the mail list. To provide comparable data for 1982 and 1978, estimates from the area sample have been subtracted from the 1978 data. Thus, all 1978 data presented in the 1982 Census of Agriculture publications include data only for farms on the 1978 mail list.

In 1978, the area sample farms accounted for 9 percent of all farms in the United States, but only 1 percent of the total value of agricultural products sold and 1 percent of the land in farms. The area sample farms represented 25 percent of all farms with sales of less than \$2,500. The contribution of the area sample farms to the total farm count varied widely by State, from a low of 2.0 percent in North Dakota to a high of 23.8 percent in New Hampshire.

The following table shows the 1982 results and adjusted 1978 data for farms on the mail list, as well as 1978 data which include estimates for farms not on the mail list.

## Effect of 1978 Area Sample on Census Comparability: 1982 and 1978

[For meaning of abbreviations and symbols, see introductory text]					
	Data pub 1982 Census		Data pub 1978 Census		Percent of
item	1982	1978 adjusted¹	1978 total <sup>2</sup>	Portion of total from 1978 area sample <sup>3</sup>	1978 total represented by area sample portion
Farmsnumber Land in farmsacres Value of land and buildings <sup>4</sup> , average per farmdollars	2 240 976 986 796 579 345 869	2 257 775 1 014 777 234 279 672	2 478 642 1 029 694 535 262 252	220 867 14 917 301 84 177	8.9 1.4 (X)
Total cropland farms  Harvested cropland farms	2 010 609 445 362 028 1 809 756	2 081 604 453 874 133 1 904 602	2 258 856 461 340 542 2 033 057	177 252 7 466 409 128 455	7.8 1.6 6.3
Irrigated land acres	326 306 462 278 277 49 002 433	317 145 955 280 779 50 349 906	320 666 222 302 674 50 837 940	3 520 267 21 895 488 034	1.1 7.2 1.0
Farms by size:  1 to 9 acres  10 to 49 acres  50 to 69 acres  70 to 99 acres  100 to 139 acres  140 to 179 acres  180 to 219 acres  220 to 259 acres  220 to 259 acres  500 to 999 acres  1,000 to 1,999 acres  2,000 acres or more	187 665 449 252 142 545 201 230 195 336 172 541 114 392 97 093 315 025 203 925 97 395 64 577	151 233 391 554 141 778 213 977 209 765 193 527 125 789 108 065 347 777 213 209 97 800 63 301	215 088 476 241 156 359 230 663 225 233 202 434 130 959 110 970 354 427 215 112 98 521 63 635	63 855 83 687 14 581 16 688 15 468 8 907 5 170 2 905 6 650 1 903 721 334	29.7 17.6 9.3 7.2 6.9 4.4 3.9 2.6 1.9 .7
Market value of agricultural products sold\$1,000 Crops, including nursery and greenhouse products\$1,000 Livestock, poultry, and their products\$1,000	131 900 223 62 256 087 69 644 136	107 073 458 48 203 200 58 870 258	108 113 519 48 617 400 59 496 118	1 040 061 414 200 625 861	1.0 .9 1.1
Farms by value of sales: Less than \$2,500 \$2,500 to \$4,999 \$5,000 to \$4,999 \$10,000 to \$19,999 \$20,000 to \$39,999 \$40,000 to \$99,999 \$100,000 to \$499,999 \$250,000 to \$499,999 \$250,000 to \$499,9995 \$500,000 or more Abnormal farms	536 327 278 208 281 802 259 007 248 825 332 751 215 912 58 668 27 800	460 535 300 699 314 088 299 215 299 175 360 093 165 493 38 202 17 973 2 302	611 653 331 874 331 042 309 594 306 112 363 383 166 442 38 264 17 976 2 302	151 118 31 175 16 954 10 379 6 937 3 290 949 62 3	24.7 9.4 5.1 3.4 2.3 .9 .6 6 .2 (Z)

See footnotes at end of table.

# Effect of 1978 Area Sample on Census Comparability: 1982 and 1978-Con.

	Data put 1982 Census		Data pub 1978 Census	Percent of	
Item	1982	1978 adjusted¹	1978 total <sup>2</sup>	Portion of total from 1978 area sample <sup>3</sup>	1978 total represented by area sample portion
Farms by type of organization: Individual or family Partnership Corporation Other—cooperative, estate or trust, institutional, etc.	1 945 639 223 274 59 792 12 271	1 965 860 232 538 50 231 9 146	2 175 437 241 290 51 270 10 645	209 577 8 752 1 039 1 499	9.6 3.6 2.0 14.1
Tenure of operator: Full owners Part owners Tenants	1 325 773 656 249 258 954	1 297 902 681 112 278 761	1 451 446 713 548 313 648	153 544 32 436 34 887	10.6 4.5 11.1
Operators by principal occupation: FarmingOther than farming	1 234 787 1 006 189	1 269 305 988 470	1 326 785 1 151 857	57 480 163 387	4.3 14.2
Female operators: Farmsnumber Land in farmsacres	121 599 35 358 675	112 799 35 342 860	128 170 36 566 562	15 371 1 223 702	12.0 3.3
Operators by race: White	2 186 609 54 367	2 199 787 57 988	2 398 726 79 916	198 939 21 928	8.3 27.4
Corn for grain or seed	715 171 69 857 993 446 075	810 577 70 043 480 378 574	842 908 70 734 094 383 367	32 331 690 614 4 793 302 708	3.8 1.0 1.3 .6
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	70 910 293 1 050 992 56 743 836	54 155 168 1 132 997 60 241 391	54 457 876 1 200 551 61 757 610 82 250	67 554 1 516 219 9 067	5.6 2.5 11.0
Vegetables harvested for sale	69 109 3 330 637 123 663 4 750 667	73 183 3 534 142 121 852 4 463 627	3 569 304 139 765 4 546 138	35 162 17 913 82 511	1.0 12.8 1.8
Cattle and caives inventory farms	1 354 992	1 346 106 103 865 109	1 461 944 105 715 399	115 838 1 850 290	7.9 1.8 13.1
number Hogs and pigs inventorynumber number	104 475 827 329 833 55 366 205	445 117 57 697 318 240 891	512 292 58 809 991 315 287	67 175 1 112 673 74 396	1.9 23.0
Chickens 3 months old or older inventory farms_ number_	215 812 362 464 997	354 357 427	359 064 123	4 706 696	1.3
Estimated market value of all machinery and equipment <sup>4</sup> \$1,000.  Energy and petroleum products <sup>4</sup> \$1,000.  Hired farm labor, workers working 150 days or more <sup>4</sup> farms number.	93 662 947 9 973 865 312 610 949 481	77 600 689 6 025 704 317 161 953 694	79 482 285 6 123 760 320 132 957 918	98 056 2 971	1.0

¹Includes data only for farms on 1978 mail list—excludes area sample data. ²Includes mail list enumeration and area sample data. ³Data from farms not on mail list. ⁴Data are based on a sample of farms. ⁵Retabulated 1978 data for 1982 comparability.

# APPENDIX C.

# **Report Form and Information Sheet**

DUE BY FEBRUARY 15, 1983						O.M.B. APP	ROVAL NO. 0607	0408 EXPIRES 12
FORM 82-A0213 (2-12-82)	U.S. DEPARTMENT OF COMMERC BUREAU OF THE CENSU	only for statist	sponse to this inquiry is required BUREAU IS CONFIDENTIAL. It micel purposes. Your report CANNO	iay be seer OT be used	only by s for purpos	worn Censuses of taxation	is employees a on, investigatio	OUR REPORT T and may be use on, or regulatio
Crise	UNITED STATES		rovides that copies retained in you					N).
82 5	CENSUS	In carrespone	dence pertaining to this report,	please ret	er to your	Census File	number (CF	N)
	OF AGRICULTURE					8	12-A0213	
Please complete this	BUREAU OF THE CENSUS		-					
form and RETURN TO	1201 East Tenth Street Jeffersonville, Indiana 47133	_						
Note — If your records are not av	ailable, reasonable estimates may be used. If							
you cannot file by February 15, a above address. Include your 12-ch in your address label in all correspo	time extension request may be sent to the paracter Census File Number (CFN) as shown andence 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. A	037 038	-	_					
CENSUS USE 039 040	041 042	-	(Please correct error	e io name	address s	nd ZIP code	1	
SECTION 1 ACREAGE I	N 1982	<u> </u>						o sostion
If the acres you operated in 198 INFORMATION SHEET, Section	2 changed during the year, refer to the n 1.		INSTRUCTIONS — Please Use section 7 to report 0 6 and section 8. DO NOT	NLY tho	se crops	NOT list	ed in sectio	ns 2 throug
	, or used by you, your spouse, or by th ization for which you are reporting. Inc			<u> </u>			ed from this pla	
LAND, REGARDLESS OF Li rangeland, woodland, idle I	OCATION OR USE — cropland, pastul and, house lots, etc. None	reland, Number of acres	S2		Acres	Quantity	/ harvested	Acres
-		043	1. Corn (field) for grain or	lone ha	rvested	068		irrigated 1 <sup>069</sup>
1. All fand owned			seed (Report quantity on a dry shelled-weight basis)			l'	OR- Lbs.	}
<ol><li>All land rented or leased FROM by you on shares, used rent fr</li></ol>	M OTHERS, including land worked ee, in exchange for services,	044	2. Corn (field) for silage	G 70		071	Tons,	072
land. (DO NOT include land us	e leased Federal, State, and railroad sed on a per-head basis under a	1044	or green chop	073		074	green	075
grazing permit.) Also complete	e item 5 below	045	including durum	076		077	θu.	078
	THERS, including land worked on leased. Also complete item 6 below.		4. Oats for grain	079		080	Bu.	081
4. ACRES IN THIS PLACE -	ADD acres owned (item 1) and acres	046	5. Barley for grain	082		083	Bu.	084
rented (item 2), then SUBTRA and enter the result in this spa	CT acres rented TO OTHERS (item 3),		<ol><li>Sorghum for grain or seed, including milo</li></ol>		4	i	OR Bu. Lbs.	}
For this census report these are	the "ACRES IN THIS PLACE."		<ol> <li>Sorghum for silage or green chop (Exclude sorghum-</li> </ol>	O85		086	Tons,	087
	o the INFORMATION SHEET, Section 1. IS (item 2) enter the following information for	anch inndiaed	sudan crosses)	088		089	green	090
Name of landlord	Mailing address (Include ZIP code)	Number of acres	8. Soybeans for beans 9. Cotton	091		092	Bu. Bales	093
			10. Tobacco — ali types	094	/10	095	Lbs.	096   /1
			11. Potatoes, Irish		/10	098	Cwt.	099 /1
List additional landlords on a sepa	rate sheet of paper.		12. Sweetpotatoes and yams		/10	101	Bu.	102
6. If you rented land TO OTHERS	(item 3), enter the following information f	or each renter.	SECTION 3 Was any DRY harvested fro	HAY, GRA	SS SILAG	E, HAYLAG	iE, or GREEN (	CHOP cut or
Name of renter	Mailing address (Include ZIP code)	Number of acres		hum-sude	n crosses	and hay co	ut from pastui O — Go to se	
			If cuttings were made for both	n drv hav an	d grass sila	ge; haylage,	or green chop	
			from the same fields, report to HAY and also under GRASS S	SILAGE, HA	n tne appro YLAGE, and	d GREEN CH	OP.	
List additional renters on a separa  a. Of the land you rented or le acres did you own?	None	Acres	DRY HAY (If two or more hay were made from the sail acres only once, but report	ne acres, r	port	Acres harvested	Quantity harvested (Report either or green weigh	d irrigate
7. During 1982, did you have any	Federal or state grazing 054		cuttings.)  a. Alfalfa and alfalfa mixto	ures for	}	103	indicated)	105
permits on a per-head basis; su	ch as Forest Service,	]Yes ₂ ☐ No	hay or dehydrating <b>b.</b> Small grain hay — oats			106	107	108
8. How many acres were diverted	None		barley, rye, etc		- 5	109		ons, ry
commodity acreage reduction p		Acres	c. Other tame dry hay — c timothy, Bermuda gras etc	s, Sudan g	edeza, rass,		_	ons,
9. LOCATION OF AGRICULTURA		Tax			Ī	112	113 T	ons, 114
a.in what county was the largest value of your		Number of acres	d. Wild hay		Г		d	ry
agricultural products raised or produced?	Principal county->		GREEN CHOP (hay crop and fed green) (If two or	s cut		115	116	117
,		057	were made from the same a acres only once, but report	total tons i	rom			ons, reen
b. If you also have agricultural operations in any other	Other	058	all cuttings.)	ı sell any	hay	118	<u> </u>	
county(ies), enter the county name(s), etc	Sounds	059	or grass silage in 1982 of hay sold in section 9, item	?? (Report	value	Yes	2 N	0
PENALTY FOR FAILURE TO REI	PORT							-

SALE				ET CORN, MEI (Exclude those				SECTION 6				NBERRIES, or OTHE 2? (Exclude those gro		
1 YES — Complete this section						1 YES — Complete this section								
2 NO — Go to section 5								2 NO	-					
NOTE: For Florida report for September 1, 1981 through August 31, 1982 harvest season; for all Acres Acres irrigated					From the list below, enter crop name and code. Report quantity harvested in unit									
other States report for calender year 1982.  1. Land from which vegetables were  25  Whole acres Tenths Whole acres Tenths Tenths Whole acres Tent				specified with cr				, , , , , , , , , , , , , , , , , , , ,						
harvested in 1982					Crop name	Code	Acres harv		Quantity harvested	Acres irri Whole acres				
From the list below, enter the crop name and code for each crop harvested in 1982.     If more then one vegetable crop was harvested from the same acres, report acres for each crop. Report crops grown under protection in section 5.							Wildle acres	/10	1	2	/10			
Crop nam			Code	Acres harv		Acres in	rigated				1 /10	1	2	/10
					/10	1	/10				/10	1	2	/10
					/10	ļ <u>'</u>	/10	If more space is n	eeded, use se	parate sheet of p				710
					/10		/10	Crop name		Co		Crop name		Code
ļ					/10	ļ, — — —	/10	Blackberries and Blueberries, tame	(pounds)	51	12 , 5	Raspberries (pounds) Strawberries (pounds)	.,	. 533 . 536
					i /10		/10	Blueberries, wild Cranberries (100	(pounds) I-lb. barrels)	51 52	15 ! / 21 <sub> </sub>	All other berries (pound Specify	s)	539
If more space is needed, us	e separat	te sheet of t	paper.	<u> </u>	/10	l	/10	SECTION 7	Were any	OTHER CROPS	Sharvas	ted from this place in	1982 — smali	grains.
Crop name	Code	Crop na	mə	Code		name	Code		field seeds	s, or other crop	s not pre	viously reported?		
Asparagus Beans, snap (bush		' Garlic		415	Radis	pkins shes	451	S7		uit in section 8.				
and pole) Beets	. 383	Lettuce	and ron	ons 423 naine 427	(cov	nern peas, gree vpeas) — black	ceyed,			S — Comp		section		
Broccoli	. 385 . 391	Mustard	areens	en 429	Spina	vder, etc ach	457		2   NO	— Go to s	section 8			
Cantaloups and muskmelons	. 395	, Onions,	green	433 435	, Swe	sh et corn	461			nter crop na	me and	code. Report quant	ity harvested i	n unit
Carrots	. 399	Peas, Er	nglish, g		Turn	atoesips	465	specified with o	rop name.					
Celery	. 407	southe	ie greer en peas	) <b>441</b>	Wate	ip greens ermelons	473	Crop nar	ne	Code Acres	harveste	d Quantity harvest	ed Acres in	rigated
Cucumbers and pickles	. 411	Peppers Peppers	, sweet , hot		Othe	r vegetables ecify	_ 475					1	2	
				NHOUSE PRO								1	2	
bulbs,	flowers or other	s, flower se protection	eeds, v n. GRO	egetable seed: WN FOR SALE	and pla	ints, vegetal place in 198	oles under 12?					ļ. ———	12	
		- Comp	•			<b>,</b>								
		— Go to:				Area irrigate	d					1	2	
				None	Square fe	eet Acres	s Tenths					1	2	
1. Nursery and greenhou	ıse prodi	ucts irrigate	ed in 19	982 🗌 🛂	7 	4 78	/10					1	2	
2. From the list below, e	nter the	product na	ame and	code for each p	product g	rown.		If more space is n	anded use of	navete sheet of				
		Square		Acres in the		Calaai	n 1982	•	eeueu, use se					Code
Product name	Code	under gla other prot	tection	in 1982		Sales II	n 1982	Crop name Alfalfa seed (pou	ınds)	54	\$2 ¦ F	Crop name Popcorn (pounds, shelle	ıd)	
		in 198	82	Whole acres T	enths 2	Dollars	Cents	Beans, dry edible dry limas) (hun	(excluding dredweight)	51	P 	Proso millet (bushels) Red clover seed (pound		665
					/10 \$		/10	Beans, dry lima ( Buckwheat (bus	hundredweig	jht) 58	57 F 75   F	Rice (hundredweight) Rye for grain (bushels) .		686
					/10 \$		/10	Corn cut for dry or grazed (repo	fodder, hogg rt acres only	jed } 51	 B1   S	Ryegrass seed (pounds)		689
				ľ :	/10 \$		/10	Dry southern per (bushels)		51	84	Sorghum cut for dry for or hav (tons, dry)	age	
Product name			ode ,	Product nam			Code	Emmer and spelt Fescue seed (po	(bushels) unds)	59	99 9	orghum hogged or gra (report acres only)	zed	701
Bedding plants (include v		e plants)	479	Mushrooms			494	Flaxseed (bushel Grains, mixed (b	s) ushels)	60 61	ו סט	Sugar beets for sugar (1 Sugarcane for sugar (to	ons)	/19
Bulbs	st green:	S 4	482   485	Sod harvest Vegetable an	d flower	seeds	500	Kentucky bluegr Lespedeza seed	ass seed (po	unds) 62	29 1 9	Sugarcane for seed (tor Sunflower seed (pound	ns)	725
Nursery products - orns and nut trees, and vine	amentals	s, fruit	- 1	Greenhouse of Other - Sp	vegetable	es	503	Mint for oil (pour Peanuts for nuts	nds of oil)	64	44   -	Fimothy seed (pounds) Other crops (pounds) -		746
Foliage and flowering plant	ants	4	491					Peas, dry edible	(pounds)	6!	59	Specify		752
					UIT TRE	ES, includir	ng GRAPEV	INES, CITRUS, a	nd NUT TR	EES ON THIS I	PLACE is	1982?		
S8 1 🗍							Total acres	Acres	rrigated	]				
I		— Go to				Who		enths Whole acre		Nonci	itrus crop	s Code Citrus	crop	Code
<ol> <li>TOTAL ACRES in bear vineyards, and nut tree</li> </ol>	ring and r s on this	nonbearing place, (Do r	fruit ord	hards, citrus or o ide abandoned a	ther grov cres.)	es, 121	į	/10	/10	Apples	s	123 (Repo	rt quantity harves	ted
2. From the list at the rig	ht, ente	r name and	i code fo	or the fruit trees	, grapevi			place in 1982.		Avoca	idos	135 seaso		
Report the requested	intormat						prices, dama		etc. measure	Grape: Grape:	s, dry weig s, fresh w	ght 171 Lemoi eight 177 Limes	fruit	279
C	Code	TREES	OR VI	NES OF —		in trees vines of	Quan	Mar	k one	for S	(Report q ept. 1981	Orang	es los	297
Crop name	Code	Nonbea		Bearing		ages	harve		5   ×   pt	er harve	igh Marci est seasc	in/ 207 Tange Other	rines citrus –	309
		age	1	age	Whole ac	1	3	4	15	Pears		225 Spec	ify	315
		<del> </del>			2 -	/10	3	1 🗆 2	3 1		and prune weight	243	rons	Code
<u></u>		L			·	/10	3	1 🗆 2	30	Other	noncitrus	jnt 249 — Almoi	nds (Report	
					-	/10		1 🗆 2	3 0 1	Spec	offy		ntity in meats)	
			],			/10		1 2	☐ 3☐ <sup>15</sup>			Filbert	rt quantity in shell is and hazelnuts	327
			1		2	/10	3	1 2	3 🗆 5			Walnu	s its, English	357
			1		2	/10	3	4	□ 3 □ <sup>1</sup> 5				nut trees ify	363
If more space is needed, us	e separa	te sheet of p	paper.			, /10		1-1						

Page 2

	GROSS VALUE of CROPS SOLD from this place in taxes and expenses (Refer to the INFORMATION	n 19	82, BEFORE	SECTION 12 Did you or anyone else have any CATTLE or CALVES on this place in 1982?				
	Report your best estimate of the value for each of the follow	ing ç	roups of crop	1 YES - Complete this section				
	from this place in 1982. Include the value of the landlord's a estimating if necessary. Exclude value of Government CCC I			2 NO — Go to section 13 INVENTORY Number on this				
1	. Grains, soybeans and other beans sold in 1982 None	774	Dollars	Cents	DECEMBER 31, 1982 INVENTORY     None			
	a. Corn for grain	\$ 775		-	1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)			
	<b>b.</b> Wheat	\$ 776		<u> </u>	a BEEF COWS — Include beef heifers that Beef cows			
l	c. Soybeans	\$ 777		<u> </u>	805			
	d. Sorghum for grain	\$		1	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			
	e. Oats	778 \$		1	milk cows and milk heifers that had calved			
l	f. Other - barley, rice, dry beans, dry peas, flaxseed,	779		Ī	and c. HEIFERS AND HEIFER CALVES (Exclude heifer			
L	popcorn, safflower, sunflower seed, rye, etc	\$ 780		1	heifers that had calved)			
2	Cotton and cottonseed	\$ 781	<del></del>		d. STEERS, STEER CALVES, BULLS, AND BULL CALVES			
3	· Tobacco	\$ 782						
4.	Hay, silage, field seeds, and grass seeds	\$			CATTLE AND CALVES SOLD     FROM THIS PLACE IN 1982			
1	Vegetables, sweet corn, and melons - Do not include	783	-	<del>-</del>	Include those fed on this place on a contract or custom basis. Also report None None in 1982			
6.	Irish potatoes and sweetpotatoes, report them in item 7 below	\$ 784		I :	as sold cattle moved from this place Dollars Cents to a feedlot for further feeding.			
	pecans, strawberries, etc.	\$ 785			2. Calves weighing less than 500 pounds  \$			
7.	Other crops — Irish potatoes, sweetpotatoes, peanuts, sugar beets, sugarcane, mint for oil, etc.	, 05		!	3. Cattle, including calves weighing			
l	(Exclude nursery and greenhouse products) —				500 pounds or more \$			
s	Specify ECTION 10 LAND USE IN 1982	Þ			a. Of the total cattle sold, how many were FATTENED on this place on GRAIN or  812 813			
Γ	NOTE: If the same land had more than one use in 1982, RE				CONCENTRATES for 30 days or more			
	ONLY ONCE — in the use first listed below that applies. For a harvested and also pastured is to be reported only as "Cropk				and SOLD for SLAUGH TERF			
	S10 CROPLAND		ne Number o	of acres	DAIRY PRODUCTS SOLD FROM     DAIRY PRODUCTS     Gross value of sales			
''	a. Cropland harvested — Include all land from which crops		787		None Dollars Cents			
	were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse products	. [			from this place in 1982 — Include milk, cream,			
	b. Cropland used only for pasture or grazing — include rotation pasture and grazing land that could have been used for	_	788		butter, etc			
1	crops without additional improvements	. L	789		SECTION 13 Did you or anyone else have any HOGS or PIGS on this place in 1982?			
l	<ul> <li>c. Cropland used for cover crops, legumes, and soil- improvement grasses, but NOT harvested and NOT</li> </ul>	_	_		1 YES - Complete this section INVENTORY			
1	pastured	. L	790		2 NO — Go to section 14 Number on this place Dec. 31, 1982			
	report here land in orchards and vineyards on which the crop failed. Such acreage is to be reported in item 1a.)	. г	٦		DECEMBER 31, 1982 INVENTORY       815			
	e. Cropland in cultivated summer fallow	_	791		816			
	f. Cropland idle	_	793		a. HOGS and PIGS used or to be used for BREEDING Breeding			
١,	Woodland - Include all (a. Woodland pastured	_	794		b. OTHER HOGS and PIGS Uther Other			
-	woodlots and timber tracts and		795		• LITTERS FARROWED  2 LITTERS EARROWED on this place between None Number of litters			
	with young timber growth. <b>(b.</b> Woodland not pastured	. L	796		E. Ell Tello I Athlored on this place serveen			
3.	Other pastureland and rangeland — include any pastureland other than cropland and woodland pasture	. [	]		<b>a</b> . December 1, 1981 and May 31, 1982			
4.	All other land — Land in house lots, ponds, roads, wastelan etc. — Include any land not reported in items 1 through 3 above		797					
5.	TOTAL ACRES - Add the acres reported in items 1 through 4	٠ ــ	798		Number Gross value of sales sold     None in 1982     Dollars Cents			
	(Should be the same as section 1, item 4, page 1.)		10222		• HOGS AND PIGS SOLD None in 1982 Dollars Cents  3. HOGS and PIGS SOLD from this			
,	ECTION 11 Was any LAND in this place !RRIGATED at any tir lirigated land is all land watered by any artificial or controlled means — sp	rinkle	rs, furrows		place in 1982			
	or ditches, spreader dikes, etc. Include supplemental, partial, and prepla	nt irri	gation.		4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?			
Ì	1 YES - Complete this section	No	Number o		SECTION 14 Did you or anyone else have any SHEEP or LAMBS on this place in 1982?			
	2 NO — Go to section 12		680		S14 : YES — Complete this section			
8.4	How many acres of harvested land were irrigated?	٠ ــ	J		2 NO — Go to section 15			
2.	How many acres of pastureland, rangeland, and any other		681		INVENTORY NUMBER COLD			
	lands not included in item 1 above were irrigated?	. [	] [		Number on this Nomber 30LD Number on this in 1982			
3.	What percent of the irrigation water used on this place in		Nana Per	cent	1. SHEEP and LAMBS of all ages			
	1982 was obtained —		None 682		a.EWES 1 year old or older			
	a. From a well or wells located on this farm or another farm?		683	%	Number shorn Pounds of wool			
	b. From an on-farm surface supply not controlled by a water supply organization (stream, drainage ditch, lake, pond, spring, or reservoir on or adjacent to this farm)?			%	None in 1982 shorn in 1982			
	c. From off-farm water suppliers (U.S. Reclamation projects, irrigation district; mutual, cooperative, or neighborhood		684	A/	2. SHEEP and LAMBS SHORN Gross value of sales			
	ditches; or other irrigation organizations)?			%	3. What was the gross value of sales of SHEEP,			
CP.	d. TOTAL — Sum of a, b, and c should equal 100% ——— #82-A0213 (2-12-82)		→ <u>10</u>	0%	LAMBS, and WOOL from this place in 1982?   \$			
OH	8 02-AUZ 13 (2-12-82)			Pag	a 3			

S		else have any HORSE CK, or ANIMAL SPEC				SECTION 17 S17			
1	S15	omplete this section		Go to sect	ion 16	■ GOVERNMENT CCC LOANS 1. Amount received in 1982 from Government CCC loans for —	None 79	Dollars	Cents
		INVENTORY		Gross value	of coles	(Include regular and reserve loans, even if redeemed or forfeited)		•	ŀ
		this nlace	Total number sold in 1982			a. Corn , sorghum, barley, and oats		10	-
	None Horses and ponies of	Dec. 31, 1982		Dollars 832	Cents	b. Wheat		<del>11</del>	<del></del>
•	all ages	1		\$		c. Cotton	\$ 80		
2.	Colonies of bees	839 84	<b>+</b> 0	841 \$		d. Soybeans, peanuts, rye, rice, tobacco, and honey			<u> </u>
		845 . 84	46	847		MACHINE WORK, CUSTOMWORK, and OTHER	1		į
	Milk goats U	<del> </del>		7	+	AGRICULTURAL SERVICES  2. Gross amount received from machine work, customwork,			i
"	specialties in captivity				l l	and other agricultural services PROVIDED FOR OTHERS in	91	9	i
	(Enter name and code from "List A" below.)	1		2		1982 — planting, plowing, spraying, harvesting, etc	T [5		
	NameCode			\$	!	Specify kind of work done.			
	List A					SECTION 18 During 1982 did you SELL any crops, livesto DIRECTLY to individuals FOR HUMAN CON			
	Name Code Angera gosts 842	Name Mink and their pelts	Code Ner	ne ms <i> Refer to</i>	Code	stands, farmers markets, pick your own, etc			
	Other goets	Rabbits and their pelts Chinchillas and	., <b>851</b>   infor	mation sheet ther livestock		1 YES - Complete this section	Г	Dollars	Cents
	and donkeys 833	their pelts	854   Sp	scify		2 NO - Go to section 19	None 92		Cerns
		Total quantity sold	Gross value of s	ales		1. What was the gross value of these direct sales?	□ [\$		
5.	Livestock or animal products (Enter name and	in 1982		Cents		Specify products sold — vegetables, eggs, etc.		<b>L</b>	
	code from "List B" below.)	Pounds	!	ĺ	1	SECTION 19 TYPE OF ORGANIZATION			
	Name Code 2	OR	;		Į	S19			
		Gallons			.	Mark (X) the one item which best describes the type of of this place in 1982. Refer to the INFORMATION SHEET, Section 1982.		on for	
	List B					FAMILY or INDIVIDUAL operation —	921		
	Mohair sold 8	ode   Name 364   Honey sold		£	ode 368	(Exclude partnership and corporation)		J GO TO SI	action 21
	Goat milk sold 8	366 Other livestoo	k products - Spe	cify E	370	<ul> <li>PARTNERSHIP operation — Include family partnerships</li> </ul>	. 2	ע יייי	
6.	Fish and other aquaculture	/ater surface Total	l quantity sold	Gross value	of sales	INCORPORATED UNDER STATE LAW	., з 🗆	] Go to se	ection 20
	products (Enter name and   for	r aquaculture	in 1982	Dollars	Cents	OTHER, such as estate or trust, prison farm, grazing association, Indian reservation, etc	. 4	] Spacify	below then
	code from "List C" below.) Name Code	J	Pounds	2	1			go to se	ction 21
		/10	Number	\$	1	Specify			
	List C					SECTION 20 CORPORATE STRUCTURE (for incorporate Refer to the INFORMATION SHEET, Section 20	d operatio	only)	
	Name Code Name Catfish	Code Name	Code Nan		Code	. S20	922	_	_
	Trout 876   baitfish	880   Specify	884 pro	r aquaculture ducts — Specify	888	1. Is this a family-held corporation?	. 1 ∟	」Yes ₂	∐ No
_	If more space is needed, use separate		70V	CVENO		2. Are there more than 10 stockholders?	, з 🗆	Yes 4	☐ No
_	TURKEYS, DUCK	else have any POULT S, etc., on this place i			,	SECTION 21 CHARACTERISTICS AND OCCUPATION O	F OPERA	TOR (Senior	pertner
	for others on a con		INVEN	TORY		or person in charge) Refer to the INFORMATI	ON SHEE	T, Section 21.	•
	ı ∐ YES −	Complete this section	Number this p		number in 1982	RESIDENCE — Does the operator (senior partner or	923	Yes 2	□ <b></b> .
	2 ∐ NO —	Go to section 17	None Dec. 31,	1982	17.7302	person in charge) live on this place?	. ¹└	JYes 2	∐ No
1.	HENS and PULLETS of laying a	ge	892	893		2. PRINCIPAL OCCUPATION — At which occupation	828		
2.	Pullets for laying flock replacen	nent	894	895		did the operator spend the majority (50 percent or more) of his/her work time in 1982? For partnerships	_	Farming 2	Other
	a.PULLETS 3 months old or older	r not yet of laying age	896	897		consider all members of the partnership together		or ranching	
	b. PULLET CHICKS and PULLETS (Exclude commercial broilers)			•••		3. OFF FARM WORK — How many days did the operator	929	None	
,			898	899		(senior partner or person in charge) work at least	, , =	」 None ]1—49 day:	e
3.	BROILERS, fryers, and other me including capons and roasters			899	j	4 hours per day off this place in 1982? Include work at a nonfarm job, business, or on someone else's farm.	1 ==	50-99 da	
4.	TURKEYS		900	901		(Exclude exchange farm work)		100-149	
						i e			
	a. Turkeys for slaughter (Exclude	e breeders)						150-199	
	<ul> <li>a. Turkeys for slaughter (Exclude</li> <li>b. Turkey HENS kept for breed</li> </ul>		902	903			5 🗆		or more
5.		ing	902	903		4. In what year did the operator (or senior partner) begin	5 -	] 150—199 ] 200 days o	
5.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas	ing tivity — ducks, ants, quail, etc.	902			4. In what year did the operator (or senior partner) begin to operate any part of this place?	5 -	] 150-199	
5.	<b>b.</b> Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the	ingtivity — ducks, sants, quail, etc. e list below.)	902	903		to operate any part of this place?	925	] 150 – 199 ] 200 days (	ır
5.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas	ing tivity — ducks, ants, quail, etc.	902				925	] 150 – 199 ] 200 days (	
5.	<b>b.</b> Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the	ingtivity — ducks, sants, quail, etc. e list below.)	902			to operate any part of this place?	925	] 150 – 199 ] 200 days ( Yea	ır
5.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name Code	ingtivity — ducks, ants, quail, etc. e list below.)  Code Code	902	1	Code	to operate any part of this place?	925	] 150 – 199 ] 200 days (	ır rs old
5.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name Code Ducks 904	ingtivity — ducks, sants, quali, etc. e list below.) Code	ode   Name 108 Quali	1 Ter poultry	912	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)	925	] 150 – 199 ] 200 days o Yea Yea	ır ırs old lack
5.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name Code Ducks 904	ing  tivity — ducks, sants, quaii, etc. e list below.)  Code  Code  Code  Pigeons or squab 6	ode   Nami	1 1 er poultry —	912 914	to operate any part of this place?	925	] 150-199 ] 200 days of Yea Yea ] White ] Negro or B ] American I	rs old lack indian
	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name  Code   Ducks 904   Geese 906   POULTRY HATCHED on this place	ing  tivity — ducks, sants, quail, etc. e list below.)  Code  Code  Code  Pigeons or squab	ode   Name 108 Quali	1 Ter poultry	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)	925	] 150-199 ] 200 days of Yea Yea ] White ] Negro or B ] American I ] Asian or Pa	rs old lack indian acific
	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name Code Ducks	ing  tivity — ducks, sants, quaii, etc. e list below.)  Code  Code  Pigeons or squab	ode   Name	1 1 er poultry —	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)	925	] 150-199 ] 200 days of Yea Yea ] White ] Negro or B ] American I	rs old lack indian acific
6.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name  Poultry name  Code Ducks 904 Geese 906  POULTRY HATCHED on this plac 1982 and placed or sold — chicke turkeys, ducks, etc. — Specify kinc	ing	0de   Nam 008   Quai 110   All of the service of	1 1 er poultry —	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)	925	] 150-199 ] 200 days of Yea Yea ] White ] Negro or B ] American I ] Asian or Pa	rs old lack indian acific
6.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name  Code Ducks 904 Geese 906  POULTRY HATCHED on this plac 1982 and placed or sold — chicke	ing	0de   Nam 008   Quai 110   All of the service of	1 1 er poultry —	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)	925	] 150-199 ] 200 days of Yea Yea ] White ] Negro or B ] American I ] Asian or Pa	ars old
6.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name  Code   Ducks 904   Geese 906   POULTRY HATCHED on this plac 1982 and placed or sold — chicke turkeys, ducks, etc. — Specify kinc Incubator egg capacity on Dece	ing	902     Name	ner poultry — ify	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)  6. RACE of operator (senior partner or person in charge)  7. SEX of operator (senior partner or person in charge)	925	Yea Yea White Negro or B American I Asian or Palslander Other — S,	ars old
6.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name  Code Ducks 904 Geese 906  POULTRY HATCHED on this plac 1982 and placed or sold — chicke turkeys, ducks, etc. — Specify kinc Incubator egg capacity on Deca	ing	ode   Name   Quait   All oft   Spect	ner pouttry — ify Number	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)  6. RACE of operator (senior partner or person in charge)  7. SEX of operator (senior partner or person in charge)  8. SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent	924 1 2 926 . 1 927	Yea  Yea  Yea  White Negro or B American I Asian or Pelslander Other — Si	rs old lack indian acific pecify
6.	b. Turkey HENS kept for breed OTHER POULTRY raised in cap geese, pigeons or squab, pheas (Enter poultry name and code from the Poultry name Poultry name  Code   Ducks 904   Geese 906   POULTRY HATCHED on this plac 1982 and placed or sold — chicke turkeys, ducks, etc. — Specify kinc Incubator egg capacity on Dece	ing	902	ner poultry — ify	912 914	to operate any part of this place?  5. AGE of operator (senior partner or person in charge)  6. RACE of operator (senior partner or person in charge)  7. SEX of operator (senior partner or person in charge)  8. SPANISH ORIGIN — Is the operator (senior partner	924 1 2 926 . 1 927	Yea  Yea  Yea  White Negro or B American I Asian or Pelslander Other — Si	ars old

SECTION 22 Was any COMMERCIAL FERT LIME used on this place during		K PHOSPHATE, or	SECTION 26 EXPENDITURES FO		nd petro	leum p	roducts	ior the farm
S22	sze Include expenditures paid by you and ot					İ		
1 YES — Complete		e Acres fertilized	production of crops, livestock, and					
2 NO — Go to sect  1. Acres of cropland fertilized in 1982, othe		932	other agricultural products on this	Exper	ditures		Storage c	apacity on this place
used only for pastures reported in section			place in 1982. None	Dollar	s ¦	Cents	None	Capacity in gallons
2. Acres of pastureland and rangeland fertili		933	1. Gasoline and gasohol for	966		!	967	968
in 1982 reported in section 10, items 1b	and 3		the farm business	\$				371
3. Expenditures for commercial fertilizer purch		Dollars Cents	2. Diesel fuel for the farm	969 \$	į	- 1	970	171
— all forms, including rock phosphate and g     (exclude lime) Report cost of custom application			business	972			973	974
section 27, item 6			3. LP gas, butane, propane for the farm business	1	1	1	Í	
	lone Tons of lime	Acres limed	(4.5 lbs.= 1 gallon)	\$	i			
LIME — tons of lime used and acres on which applied (Do not include land plaster)	934	935	4. Fuel oil and kerosene for	975		- 1	976	977
or gypsum or lime for sanitation)			the farm business	\$ 978		<del>-</del>		
SECTION 23 Were any INSECTICIDES, HE	RBICIDES, FUNGICID	ES, NEMATICIDES,	5. Natural gas for the farm business	\$	1			
OTHER PESTICIDES, or OTHI	R CHEMICALS used	on this place in 1982?	6. Motor oil and grease for	979				
1 YES - Complete	this section		the farm business	\$	- 1			
2 NO — Go to sect			7. Electricity for the farm	980				
Include any materials provided by you, you	ur landlords, or contra	actors. For each	business	981	<u> </u>			
item listed, report acres only once. If			8. Other — coal, wood, coke, etc	s	i	1		
report acreage treated for each purpose.			SECTION 27 SELECTED PRODU	· ·	NSES na	id by v	ou and	
Sprays, dusts, granules, fumigants, etc., herbicide, insecticide, nematicide) to con-	(fungicide, Non-	Number of acres on which used	others for this place			,,		
1	·	936	s27 Include your best estimates of expe	nses paid by	you, yo	ur land	flord, co	ntractors,
a. Insects on crops, including hay		937	buyers, and others for production o	f crops, lives	tock, ar	nd othe	r agricu	tural products
b. Nematodes in crops			in 1982. DO NOT INCLUDE expens others; operation of nonfarm activity					
c. Diseases in crops and orchards (blight rusts, etc.)		938	not related to the farm business.				, 5. 1,00	
d. Weeds, grass, or brush in crops and		939	4				1 .	Selected expenditures
Include both pre-emergence and post emergen						Noni	e	ollars Cents
2. Chemicals for defoliation or for growth	control	940	1 . Livestock and poultry purchase				982	1
of crops or thinning of fruit			hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc.				\$	1
						🗀	983	
3. Agricultural chemicals purchased—insect		Dollars Cents	<ol> <li>Total feed purchased for liveste grain, hay, silage, mixed feeds, co</li> </ol>				s	i
herbicides, fungicides, other pesticides, e Report cost of custom applications in section 27,	10.		a. Commercially mixed formula fe			ت		
SECTION 24 Was there any INTEREST EXP	ENSE for the farm bus	iness in 1982?	complete, supplement, concer					
Refer to the INFORMATION	SHEET, Section 24.		(Exclude ingredients purchased separately,	1	ollars	Cent	s	
S24 941 1 YES — Complete	this section		such as soybean meal, 984 cottonseed None	985		ļ		
2 NO — Go to sect	ion 25 Doll	ars Cents	meal, and	/10 \$		i		
1 - How much interest was paid on all debts	<u> </u>						987	i
farm business in 1982?		1	<ol> <li>Seed cost — for corn, other grain cotton, etc. — Include plents and tree</li> </ol>				\$	i
SECTION 25 MACHINERY AND EQUIPME			ootton, oto: module points and acc	о рагелазев		ப	990	i
(Include only equipment used	or agricultural operati	ons in 1981 or 1982.)	4. Hired farm or ranch labor (See	Information S	heetl .		s	1
Value of ALL machinery and equipment	t on this place. Dec	ember 31, 1982	a. Of the hired workers, including				<del></del>	***********
What is the estimated market value of AL		·	paid family workers, how many					
equipment, and implements usually kept of		timated market value  Dollars Cents	(1) Worked 150 days or mor-					
and used for the farm or ranch business? I		Donars Cents	1	992				
motors, irrigation equipment, dairy equipment including	g milkers and		(2) Worked less than 150 day				993	
bulk tanks, livestock feeders, grinding and mixing equ	pinent, etc 3		<ol> <li>Contract labor — Include expenditu as harvesting of fruit, vegetables, berries,</li> </ol>	etc., performed	on a con-	С-7	Ì	1
SELECTED machinery and equipment			tract basis by a contractor, crew leader, a  6. Customwork, machine hire and				\$	
on this place, December 31, 1982.	Takel	Of the total, HOW MANY were manufac-	and equipment — Include expend	itures for use o	f equipme	ent	994	1
(Report only if used in 1981 or 1982,)	Total number on this place on	tured in the last 5 years	and for customwork such as grinding a combining, corn picking, drying, silo fil	nd mixing feed, lina. spravina. d	plowing, Iustina,	_		į
None	December 31, 1982	(1978 – 1982)? (Number)	fertilizing, etc. (Exclude cost of cotton	ginning)		Ц	\$	<u> </u>
2. Automobiles	944	945	SECTION 28 ESTIMATED CURR	ENT MARKE	T VALUE	E OF LA	ND and	BUILDINGS
<u> </u>	946	947	\$28	(i) Otton				
3. Motortrucks — Include pickups	948	949	Please give your best ESTIMATE of MARKET VALUE of land and build					
4. Wheel tractors other than garden	340	343	reported in section 1, items 1, 2,					ed market value
tractors and motor tillers	050	951			None	<u> </u>	OT land	l and buildings
5. Grain and bean combines,	950	951				996		3 Come
self-propelled only		Į.	1. All land owned		. Ц	\$ 997		
Con proposice only		1000						
6. Corn heads for combines	952	953	2. All land rented or leased FROM	OTHERS	. 🗀	\$		1
6. Corn heads for combines	952 956	953 957			_	\$ 998		
6. Corn heads for combines			3. All land rented or leased TO OTH	IERS	. 🗆	\$ 998 \$		
6. Corn heads for combines	956	957		IERS	. 🗆	\$ 998 \$ <b>Pleas</b>		
7. Cotton pickers and strippers	956	957	3. All land rented or leased TO OTH	IERS	. 🗆	\$ 998 \$	•	
7. Cotton pickers and strippers	956 958 960	957	3 . All land rented or leased TO OTH SECTION 29 PERSON COMPLET Name	IERSING THIS RE	PORT -	\$ 998 \$ - <b>Pleas</b>		
7. Cotton pickers and strippers	956	957 959 961	3 . All land rented or leased TO OTH SECTION 29 PERSON COMPLET Name	IERSING THIS RE	. 🗆	\$ 998 \$ - <b>Pleas</b>		
7. Cotton pickers and strippers	956 958 960	957 959 961	3 . All land rented or leased TO OTH SECTION 29 PERSON COMPLET Name	IERSING THIS RE	PORT -	\$ 998 \$ - <b>Pleas</b>		

#### INFORMATION SHEET 1982 UNITED STATES CENSUS OF AGRICULTURE

#### **Special Reporting Instructions**

#### 1. Who Should Report

WE NEED A REPLY FROM EVERYONE RECEIVING A REPORT FORM, WE NEED A RETURN FROM EACH TONE RECEIVING A REPORT FORM.

INCLUDING individuals, landlords, tenants, partnerships, corporations institutions, and THOSE NOT CONDUCTING AGRICULTURAL OPERATION Each case included in the census has a unique census tile number (CFN). In order to make the census results as complete and accurate as possible, we need to obtain information about every census file number.

#### 2. If You Received More Than One Report Form for an Operation

Complete only ONE report form for an operation. Write "Duplicate" near the address label of each extra report form. Also, write the 11-digit census file number(s) of the DUPLICATE report(s) ON THE COMPLETED REPORT in the space provided to the left of the address label. Return the extra report(s) in the same envelope with your completed report form so that we can correct our records.

#### 3. If You No Longer Farm

If you had agricultural operations at any time during 1982, please report all agricultural activity during the year. Report all land on your census form that you owned or rented. Also, report your 1982 crop and livestock production 2012/09/2019

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

#### 4. If You Never Farmed or Have No Association With Agriculture

Please write a note on the report form near the address label and return it so that we can correct our records. In our efforts to make the census as complete as possible, we obtained lists from various sources. We tried to eliminate duplicate and nonfarm addresses, however, it was not always possible to do so.

#### 5. If You Have More Than One Agricultural Operation

Complete a report form for EACH SEPARATE and DISTINCT production unit, that is, each individual farm, ranch, feedlot, greenhouse, etc., or combination of farms, etc., for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production.

#### 6. If You Have a Partnership Operation

Complete only ONE report for the entire partnership's agricultural operation and include all partners' shares on the one report.

If members of the partnership also operate separate farms or ranches in addition to the partnership farming operation, separate report forms should be completed for each individual operation.

If two or more report forms were received for the same operation, mark each additional form as a "Duplicate." Return the duplicate reports in the same envelope with the completed partnership report, if possible, or write a note on the duplicate report, such as, "Partner (provide name) has completed a report for the partnership (provide partnership name)."

#### 7. Landlord's or Contractor's Share

If you rented or leased land from others or had a contract for the production of agricultural products, include both your share and the landlord's or contractor's share of the production, sales, and expenses so your census report form will be complete for "this place."

If you do not know the landlord's or contractor's share, include your BEST ESTIMATE.

#### How to Enter Your Response

If you do not have exact figures, give your best estimate.

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

All dollar figures may be entered in whole dollars. CENTS ARE NOT REQUIRED. Enter whole numbers except where tenths are requested, such as acres of potatoes harvested. If you have 1/2, 1/3, or 1/4 of an acre, convert to tenths. For example, convert 1/2 to 5/10, 1/3 to 3/10, 1/4 to 2/10.

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

#### **Instructions For Specified Sections**

#### ▶ Section 1 -- ACREAGE IN 1982

Your answers to this section will determine the land ("Acres in This Place") referred to in the rest of the report form.

When answering the acreage questions, include the land associated with your agricultural operations in 1982 whether in production or not. Includ all land that you owned or rented during 1982 even if only for part of the year. Exclude any unrelated residential or commercial land.

IF YOU QUIT FARMING DURING 1982 — Complete the report form for the portion of the year that you did farm. Explain on the report form or another sheet when you stopped farming and the name and address of the person now using the land.

Report all land in section 1 in whole acres.

- All Land Owned - Report all land owned in 1982 whether held under title, purchase contract or mortragge, homestead law, or as heir or trustee of an undivided estate. Include all land owned by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

Item 2 — All Land Rented or Leased FROM OTHERS — Report all land rented by you or your operation even though the landlord may have supplied materials or supervision.

INCLUDE in item 2:

- a. Land for agricultural use that you rented from others for cash
   b. Land you worked on a share basis (crop or livestock)
   c. Land owned by someone else that you used rent-free
   d. Federal, State, Indian Reservation, or railroad land rented or leased by the acre

DO NOT INCLUDE in item 2: Land used on a per-head or animal unit license or permit basis, such as section 3, Taylor Grazing Act, National Forest, or Indian Reservation permit land. If you had any of these permits, mark "yes" to item 7.

Item 3 — All Land Rented or Leased TO OTHERS — include all land rented out for any purpose if it was part of the acreage reported in items 1 and 2. A report form

will be obtained from each of your tenants to cover the operations on that land.

- a. Owned land rented to others for cash or a share of crops or livestock
   b. Land you rented from someone and then subleased to someone else
   c. Land worked for you by someone for a share of crops or livestock
   d. Land which you allowed others to use rent-free

Item 4 — Acres In This Place — This figure will show the total of all land you operated at any time in 1982. To determine "Acres In This Place" ADD the land you rented or leased from others, then SUBTRACT the land you rented or leased from the substance the substance that the report item 4 to separate to report item 4 correctly (even if "O" acres) since the remainder of your report should cover only operations on the "Acres In This Place."

#### If item 4 ("Acres In This Place") is "0" and:

- You raised any crops or had any livestock or poultry on this place in 1982, complete the report.
- b. All your land was operated by a renter or sharecropper, complete item 6
- All your land was operated by a renter or sharecropper, complete item 6 (name and address of renters), skip to and complete section 29, and explain briefly, "All land rented out," etc. Mail form in return envelope. You did not have any agricultural activity on owned or rented land in 1982, complete section 29 and explain briefly, such as "retired," "sold farm," and date. Give name and address of current operator if known and return from

Item 7 - Grazing Permits - In some states, government lands and Indian Item / — Grazing Permits — In some states, government lands and under 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, "Acres in This Place," but you should report any of your livestock located on this permit land in 1982.

#### ▶ Sections 2 through 8 - CROPS

Sections 2 through 8 provide space for reporting crops harvested during the 1982 crop year from the land shown in section 1, item 4 ("Acres in This Place") of your report. Please report your crops in the appropriate sections. Do NOT include any crops grown on land rented or leased TO others, or worked by others on shares during 1982.

Acres harvested — Enter the acres harvested in 1982. Round fractions to whole acres except where tenths are requested by " /10" in the reporting box, such as fur potatoes.

Quantity harvested — The units of measure on the report form are those most commonly used in your state. If you use a different unit of measure, please convert your figure for quantity harvested to the unit requested. If the harvest was incomplete by December 31, 1982, please estimate the total quantity

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

#### How to Report Crops Harvested:

- ▶ Sections 2 and 3 In these two sections, separate lines are provided for reporting each of several crops most commonly grown in your state. Do not write in figures or information for any other crops in these two sections.
- ▶ Sections 4 through 8 Report the information requested for any crops prelisted in the sections. To report for crops not prelisted in these sections, (1) find the crop name and the code number from the list in the section; (2) enter crop name and code in the first two columns of the first available answer line in the section; (3) enter the information that is requested in the remaining columns. If a crop is not listed, use the "Other" code in the appropriate section and specify the crop name.

Example: You harvested 20 acres of alfalfa seed, yielding 6,000 pounds, and 30 acres of red clover seed, yielding 8,400 pounds. Neither crop was irrigated. You would enter the following in section 7:

	Were any OTHER CROPS harvested from this place in 1982 — small grains, field seeds, or other crops not previously reported?										
Complet	e this section										
Go to sec	tion 8										
crop nam	e and code. Report	quantity harvested in unit									
Code	Acres harvested	Quantity harvested	Acres impated								
542	20	543 6,000 Lbs	544								
671	30	8,400	1								
		, ,	,								
$\top$			1								
	Code	Code Acres harvested	Go to section 8  crop name and code. Report quantity harvested in unit  Code Acres harvested Quantity harvested  542 \$\int 0.000 \text{ [543]} \int 0.000 \text{ Lbs}								

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

Example: In 1982 you harvested 1,230 bushels of wheat from 40 acres, then on the same 40 acres planted soybeans, from which you harvested 1,550 bushels. You irrigated the soybeans but not the wheat.

Correct entires	Acres harvested	Quantity harvested	Acres angated
Wheat	40	1,230	_
Soybeans	40	1,550	40

 $\label{lem:lemma:constraints} \textbf{Interplanted Crops} \leftarrow \textbf{If two crops were grown at the same time in alternating strips in the same field, report the portion of the field used for each crop.}$ 

Example: A 60 acre field was planted in cotton and soybeans, with two rows of cotton followed by an area of the same width planted in soybeans. No irrigation was used. Thirty acres of soybeans and 30 acres of cotton would be reported in their appropriate section(s).

Skip Row Planting — If a crop is planted in an alternating pattern of planted and non-planted rows, such as two rows planted and two rows skipped (Z X Z), report the portion of the field occupied by the crop in the appropriate section for that crop, and report the skipped portion as "Cropland idle" in section 10 (Land Use).

 Section 4 - Vegetables - Report acres of vegetables harvested FOR SALE or commercial processing. Do not report acres of vegetables for home use only. Report the total acreage of each vegetable crop harvested.

Example: In 1982 you harvested 10 acres of lettuce from a field, then replanted the field in lettuce and harvested the 10 acres again. Both crops of lettuce were irrigated. Enter only 10 acres of land from which vegetables were harvested and 10 acres irrigated in item 1 of section 4, but write in 20 acres of lettuce harvested and 20 acres of lettuce irrigated in item 2 of section 4.

➤ Section 8 — Fruits 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. Acres in trees or vines that have been abandoned should not be included; these acres should be included in section 10, item f "Cropland idle." If crops other than fruit and nut trees and vines were interplanted with trees or vines, report the total acres for BOTH the orchard and the interplanted crops harvested

#### ▶ Section 9 - GROSS VALUE OF CROPS SOLD

Report the value of all crops sold from "this place" in 1982, regardless of the year they were harvested or who owned the land. Be sure to give gross values (before deducting expenses and taxes). Include payments received in 1982 from cooperatives or marketing organizations for crops produced on this place regardless of the year in which the crops were harvested. Include the landlord's or contractor's share of crops removed from this place in 1982 in the value of crops sold. If the sale price or market value is not known, give your best estimate of the crops' market value when removed from "this place." include in the value of crops sold from "this place" any cost of harvesting, tilling, fertilizer, chemicals, etc., furnished under a contract arrangement. Also include as sales your estimate of the value of any crops removed from this place in trade for services, such as hay cut in exchange for fence repair, clearing, or other services

DO NOT INCLUDE.

- a. Amount of government CCC loans received in 1982 in this section.

  Report Government CCC loans in section 17.
- b. Crops or crop products purchased from others and later resold

#### ► Section 10 - LAND USE

The purpose of this section is to classify the "Acres in This Place" you reported in section 1, item 4, by principal use in 1982. Do NOT include any acres you rented TO others (reported in section 1, item 3).

Land Used for More Than One Purpose — If part of your land was used for more than one purpose in 1982, report that land on the line for the use first listed, and NOT on the line for the second use. For example, if you plowed under a cover crop, and planted and harvested a grain crop, report the land in item 1a, "Cropland harvested," but NOT as "Cropland used for cover crop, legumes, . . etc " (item 1c).

**Double Cropping** — When more than one crop was harvested from th same land in 1982, report that land only ONCE as "Cropland harvested item 1a of this section

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

Skip Row Planted Crops — Report the acres that represent the total non-planted or skipped rows as "Cropland idle," item 11. The acres that represent the planted rows should be reported as "Cropland harvested," item 1a.

## ► Sections 12 through 16 — LIVESTOCK, POULTRY, AND ANIMAL SPECIALTIES

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 1, item 4) on December 31, 1982, include all owned by you and any kept by you for others. Include animals on untenced lands: National Forest land, distinct land, cooperative grazing association land, or rangeland administered by the Bureau of Land Management on a per-head or lease basis. Animals in transit on December 31, 1982, or animals on short-term pastruer is such as wheat pasture or crop residuel on a per-head or lease basis should be reported by the person who had control of the animals.

Animals and Poultry to Exclude from the Report — Do not report any animals or poultry kept on land rented to others or kept under a share arran ment on land rented to others. Do not include animals quartered in feedlots which are not a part of "this place." Animals kept on a place not operated by you are to be included on the report for that place.

Animals Bought and Sold — DO NOT REPORT ANY ANIMALS BOUGHT AND THEN RESOLD WITHIN 30 DAYS. Such purchases and sales are considered "dealer" transactions, and are not included in this census.

Number Sold — Report all animals and poultry sold or removed from this place if the animals were located on the place 30 days or more and were sold or removed from this place in 1982, without regard to ownership or who shared in the receipts. Include animals sold for a landlord or given to a landlord or others in trade or in payment for goods or services. Do NOT report number sold for any livestock or poultry kept on another place.

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

Fat Cattle Sold — Cattle fattened on grain or concentrates for 30 days or more and sold for slaughter are reported in section 12.

DO NOT INCLUDE WITH FATTENED CATTLE SOLD

- a. Cattle and calves sold for further feeding
   b. Dairy cows fed only the usual dairy ration before being sold
   c. Veal calves, or any calves weighing less than 500 pounds

Value of Sales — Report the total gross value of animals and poultry sold or removed from this place in 1982 without deducting production or marketing expenses (cost of feed, cost of Investock purchase, cost of hailing and selling, etc.), if the sale price or market value is not known, give your best estimate of their market value when they left "this place." Do NOT report the value of sales of any livestock and poultry owned by you but kept and sold from a place you did not operate.

Contract and Custom Feeding Operations — Livestock or poultry kept by you on "this place" on a contract or custom basis should be included on this report REGARDLESS OF OWNERSHIP. Report as "INVENTORY" numbers of animals or poultry on the place on December 31, 1992. Report as "SOLD" animals and poultry which were kept on a contract or custom basis and were removed or sold from the place in 1982. If the sale price or market value is not known, give your best estimate of the market value of the animals or poultry when they left this place.

## Section 15 - HORSES, PONIES, BEES, FISH, GOATS, ANIMAL SPECIALTIES, OTHER LIVESTOCK

Items 1 through 4 — Report the inventory number of animals, bee colonies, or animal specialties on the place on December 31, 1982, Indicate number sold and the gross value of sales for the number sold in 1982. In litem 4, specify the name and code from List A of any livestock or animal specialties on "this place" which are not covered in items 1 through 3, or 6 (fish and aquaculture products), or sections 12 through 14, or 15.

If "Inventory" or "Sold" is in units other than "Number" (such as pounds, packages, etc.), indicate the unit.

if you own colonies or hives of BEES — report all bee and honey operations conducted by you regardless of where the hives were kept most of the year. (Report hives in item 2 and honey, beeswax, or pollen in item 5). MINK PELTS, RABBIT PELTS, and CHINCHILLA PELTS should be included in number sold and value of sales, but NOT in inventory. WORMS raised for sale should be reported in beds (124 cubic feet per bed) in item 4, "Inventory" and in pounds in item 4, "Number sold."

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Item 5 — Sales of Animal Specialty Products — If any semen, manure, honey, beeswax, or other animal products were sold from this place in 1982, specify the products, the code from list B, the quantity sold, and the gross value of sales in 1982. If sold in units other than pounds or gallons, please indicate unit.

Item 6 — Fish and Aquaculture Products — Report water surface acres (estimate, if necessary) used for raising fish or other aquaculture products FOR SALE.

#### Section 16 - POULTRY

Roosters and turkey toms used or to be used for BREEDING should be specified and reported in item 5, code 914 (All other poultry).

Item 8 — Gross Value of Sales — Include an estimated value of poultry and poultry products moved from this place by contractors and others.

➤ Section 17 — AMOUNT RECEIVED FROM GOVERNMENT CCC LOANS AND AGRICULTURAL SERVICES

Item 1 — Report the amount received under the regular or reserve program for commodities placed under CCC loan druing 1982, include amount received even if commodity was redeemed or forfeited prior to December 31, 1982. Do not include CCC loans received to build crop storage facilities, or amount received for storage payments in the reserve program.

#### ➤ Section 19 - TYPE OF ORGANIZATION

Use the following definitions to help you determine the type of organization

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

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

Incorporated Under State Law — A corporation is defined as a legal entity or artificial person created under the laws of a state to carry on a business. This definition does not include cooperatives. Also complete section 20.

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

#### ▶ Section 20 — CORPORATE STRUCTURE

This section is to be answered by corporations only. Answer both items. A family-held corporation has more than 50 percent of its stock owned by persons related by blood or marriage.

# ▶ Section 21 - OPERATOR CHARACTERISTICS AND OCCUPATION

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

For Individual or Family Operation — Complete this section for the operator

For Individual or Family Operation — Complete this section for the operator. For Partnership Operations — Answer all items except? I on the "Senior Partner." The "Senior Partner" is the individual who is mainly responsible for the agricultural operations on this place, not necessarily the person senior in age. If each partner shares equally in the day-to-day management decisions, consider the oldest as the "Senior Partner." For item 2 Principal Occupation) consider all members of the partnership together, Please include as "farming" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, ranching, feedlots, broiler feeding, etc.

For Corporations and Other Operations (Cooperatives, Estates, etc.) — Complete section 21 for the person in charge, such as a hired manager, out other person primarily responsible for the on-site, day-to-day operation of the farm or ranch business.

Item 4 — Year Began Operation — Report the first year the operator or senior partner began to operate any part of this place on a continuous bas If the operator returned to a place previously operated, report the year operations were resumed.

#### Section 22 - COMMERCIAL FERTILIZER AND LIME

Report acres on which commercial fertilizer (items 1 and 2) or lime (item 4) was applied during 1982. If any acresge was fertilized or limed more than once, report acres ONLY ONCE in each item. Report expense for commercial fertilizer purchased, excluding lime, in item 3.

#### ▶ Section 24 - INTEREST EXPENSE

Report all interest expenses paid in 1982 for the farm business.

INCLUDE interest or finance charges on:

- a. Mortgage loans for land and buildings in "this place" b. Machinery, tractors, trucks, and other equipment c. Fertilizer, feed, seed, etc. d. Livestock, poultry, breeding stock e. Funds borrowed to replenish or provide working capital f. Interest paid on CCC loans
- a. Interest on debts associated with activities not related to the production of crops or livestock on "this place," such as land or buildings rented to others, packing sheds, or feed mills providing services to others
- b. Interest on owner/operator dwelling where amount is separated from interest on other land and buildings in this place.

#### ► Section 25 - MACHINERY AND EQUIPMENT

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

#### ➤ Section 27 — SELECTED PRODUCTION EXPENSES

Section 27 — SELECTED PORODOCTION EXPENSES: include expenses paid by you and by anyone else for the production of crops, poultry, livestock, and other agricultural products on this place. Also include expenses incurred even if payment was not made in 1982. Please give estimates if you do not know the exact figures. For livestock or poultry grown under contract or fed on a custom basis on "this place," report their value lestimate, if necessary in item? I (Livestock and poultry purchased), at the time they came on this place. Also, include in item 2, the value and amount of feed purchased by you or someone else for use on this place. Do not include expenses related to nonfarm activities (trading and speculation, livestock, or dealer activities). dealer activities).

Hired Labor — Include in expenses for hired labor gross wages or salaries, commissions, paid bonuses, and leave pay before deductions. Social Security taxes, health, life, or employment insurance and any other benefits paid by you should be included. Be sure any salary paid to a hired manager is part of your total figure.

Contract Labor — Applies to expenditures primarily for labor in harvestic crops, shearing sheep, etc. Exclude money paid to contractors for capital improvements such as putting up fences, repair or maintenance of building or machinery, land clearing, etc. Include the expense of items considered primarily machine work in customwork, item 6.