# APPENDIX A. General Explanation

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#### **DATA COLLECTION**

#### **Method of Enumeration**

All agriculture censuses beginning with the 1969 census primarily have used mailout/mailback data collection. Direct enumeration methods, however, continue to be used for the agriculture census in Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Commonwealth of the Northern Mariana Islands.

#### **Mail List**

The mail list for the 1987 census was comprised of individuals, businesses, and organizations that could be readily identified as being associated with agriculture. The list was assembled from the records of the 1982 census. administrative records of the Internal Revenue Service (IRS), and the statistical records of the U.S. Department of Agriculture (USDA). In addition, lists of large or specialized operations, such as nurseries and greenhouses, specialty crop farms, poultry farms, fish farms, livestock farms, and cattle feedlot operations, were obtained from State and Federal agencies, trade associations, and similar organizations. Lists of companies having one or more establishments (or locations) producing agricultural products were obtained from the 1982 census and updated using the information from the Standard Statistical Establishment List maintained by the Census Bureau. Exhaustive record linkage, unduplication, and mathematical modeling yielded a final mail list of 4.1 million names and addresses that had a substantial probability of being a farm operation.

## **Report Forms**

In 1987, three different report forms were used—a two-page, a four-page, and a six-page form to minimize the reporting burden, particularly for small farms and places less likely to be farms. The six-page sample form and the four-page nonsample form are the same, except sections 23 through 28 have been added to the sample form to obtain supplemental information from a sample of farms.

The information collected in these sections will give the Bureau of the Census a good basis for making estimates of these data for other farms included in the census. The two-page form does not have as many questions or as much detail as the four-page and six-page forms. The four-page form has 11 regional versions and the six-page form has 13 regional versions. Both forms have different crops prelisted. Appendix D contains copies of both the two-page and six-page forms.

The six-page form was mailed to 1,104,000 addressees on the mail list, including all those expected to be large (based on expected sales or acreage) or unique (farms operated by multiestablishment companies or nonprofit organizations), all those in Alaska and Hawaii, and a sample of other addressees. The two-page form was mailed to 906,000 addressees. These were expected to be small farms or less likely to be farms. The four-page form was mailed to the remaining 2,079,000 addressees. Further discussion of the criteria used to determine which form was mailed to an addressee is provided in the Census Sample Design section of appendix C.

## **Initial Mailing**

The report forms were mailed in mid-December 1987 to the approximately 4,089,000 individuals, businesses, and organizations on the mail list. The mail packages included a report form, a cover letter with a description of the purposes and uses of the census on the reverse side, an information sheet containing instructions for completing the form, and a postage-paid return envelope. Additional special instructions were included with report forms sent to grazing associations; feedlot operations; institutional organizations; Indian reservations; firms with multiple farm or ranch operations; and producers of poultry under contract, bees and honey, fish, laboratory animals, and nursery and greenhouse crops.

To provide additional help to farmers in completing their reports, copies of an Agriculture Census Guide booklet were sent to vocational agriculture instructors, USDA county offices of the Agriculture Stabilization and Conservation Service, and the Cooperative Extension Service. The Guide contained descriptions and definitions of 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.

#### **Followup Procedures**

A thank you/reminder card was mailed to those on the mail list in mid-January 1988. Five followup letters, three of which were accompanied by a report form, were sent to nonrespondents at 4-week intervals starting in mid-February and continuing until early June 1988.

Telephone calls were made to all large farms who had not responded. In addition, telephone calls were made to a sample of other nonrespondents in counties that had a response rate of less than 75 percent. 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 Census Estimation section of appendix C.

#### **DATA PROCESSING**

Selected report forms were reviewed prior to keying the data. These included reports with attached correspondence and reports with remarks or no positive data on the front page.

The data from 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. Substantial computer-generated changes to the data were clerically 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 substantial changes between 1982 and 1987. Sizeable historical differences were resolved or verified by telephone, if necessary. Respondents who reported sales or acreage above specified levels on non-sample forms were sent correspondence requesting the additional sample data. Prior to publication, tabulated totals were reviewed by statisticians to identify inconsistencies and potential coverage problems. Comparisons were made with previous census data, estimates published by the USDA, and other available data.

#### **MAJOR DATA CHANGES**

Prior to each agriculture census, the Census Bureau reviews the content of the census forms to eliminate questions no longer needed and to identify new items necessary to meet user needs and to better describe the agricultural situation in our Nation. Data requests are solicited from farmers, farm organizations, land grant colleges and universities, State and federal agencies, and members of the Census Advisory Committee on Agricultural Statistics. Each agency and organization is asked to identify and justify its specific data needs. The following data inquiries were added to the 1987 report form:

income from farm-related sources

Acres under the Conservation Reserve Program

Payments received for participation in federal farm programs

Grazing permits by source

Additional data on production expenses were added in 1987:

Repair and maintenance expenses Cash rent

Cash rent

Property taxes paid

All other production expenses

The following separate data inquiries were eliminated from the 1987 form:

Storage capacity for petroleum products

Number of hired farm and ranch workers

Value of agricultural products sold directly to individuals for human consumption

Source of irrigation water

Tons of commercially mixed feed

Expenditures for coal, wood, and coke

Selected machinery items: automobiles, corn heads for combines, and field forage harvesters

Chinchillas

Worms

Tropical and baitfish

# FOLLOW-ON SURVEYS, SPECIAL CENSUSES, AND RELATED PUBLICATIONS

In addition to the 1987 Census of Agriculture for the 50 States, Puerto Rico, Guam, the U.S. Virgin Islands, American Samoa, and the Commonwealth of the Northern Mariana Islands, the census of agriculture program includes the 1988 Farm and Ranch Irrigation Survey, the 1988 Agricultural Economics and Land Ownership Survey, and the 1988 Census of Horticultural Specialties.

The 1988 Farm and Ranch Irrigation Survey provides data on water use by irrigated farms and ranches. Data include: the amount of water applied by crop, method of water distribution, source of water, and energy costs for pumping water. Data from this survey will be published as volume 3, part 1.

The 1988 Agricultural Economics and Land Ownership Survey provides detailed data on debts, expenses, taxes, credits, assets, land ownership, and farm and off-farm income for farm operators. Many of these items, as well as detailed data on landlord characteristics, are being collected from the landlords of the farms involved in the survey. Data from this survey will be published as volume 3, part 2.

The 1988 Census of Horticultural Specialties covers operations growing and selling \$2,000 or more of horticultural products such as greenhouse products, outdoorgrown floricultural products, nursery products, mushrooms, and sod. These data will be published as volume 4.

Additional publications of the 1987 Census of Agriculture data include the Agricultural Atlas of the United States (previously called the Graphic Summary), Coverage Evaluation, Ranking of States and Counties, and Government Payments and Market Value of Agricultural Products Sold.

The Agricultural Atlas of the United States presents the Nation's agriculture graphically illustrated by dot and multicolor pattern maps. The maps provide displays on size and type of farm, land use, farm tenure, market value of products sold, crops harvested, livestock inventories, and other characteristics of farms. This report will be published as volume 2, part 1.

The Coverage Evaluation report provides estimates of the completeness of the 1987 Census of Agriculture for the United States, geographic regions, and selected States and groups of States. Estimates with their associated sample reliability are provided for farms not on the mail list, farms classified as nonfarms, duplicate farms, and nonfarms classified as farms. This report will be published as volume 2, part 2.

The Ranking of States and Counties report ranks the leading States and counties for selected items in the 1987 census and provides comparative data from the 1982 census. This report will be published as volume 2, part 3.

A new publication on Government Payments and Market Value of Agricultural Products Sold presents 1987 data for the United States and each State. The U.S. table has a format similar to volume 1, U.S. table 52 and presents summary data by size of farm. This report will be published as volume 2, part 5.

#### **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 1987 census report forms and the information sheet which accompanied these forms, see appendix D. 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 operations. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations. Land in farms includes acres set aside under annual commodity acreage programs as well as acres in the Conservation Reserve Program for places meeting the farm definition.

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. Land under the exclusive use of a grazing association was to be reported by the grazing association and included as land in farms. 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 represents the total land area as determined by records and calculations as of January 1, 1988. These data are updated periodically; however, the acreages shown for 1987 are essentially the same as for 1982. Any differences between the land area for 1987 and 1982 are due to 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 1982 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 substantially 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 value 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. Included also was all cropland used for rotation pasture and land in government diversion programs that were pastured. However, cropland that was pastured before or after crops were harvested was to be included as harvested cropland rather than cropland for pasture or grazing.

Other cropland—This category includes cropland not harvested and not grazed which was used for cover crops, 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, land planted for Christmas tree production, and woodland pastured. 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.

Cropland in annual commodity acreage adjustment programs—This category includes land diverted or set aside under the provisions of the Federal Commodity Acreage 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. Information was not obtained as to which crops would have been grown on the acres set aside.

Cropland in the Conservation Reserve Program (CRP)—This category includes acres of "highly erodible" cropland taken out of agricultural production and planted to protective cover crops or reforested. The CRP was established through the 1985 Food Security Act and provides for annual rental payments and shared costs of conservation practices through a 10-year contract with the USDA. Appendix B presents data on places with all their cropland enrolled in the Conservation Reserve Program and which were not counted as farms in the 1987 census.

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, and marketing. The operator may be the owner, a member of the owner's household, a hired 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 the operator. If it is not clear which partner is 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 operation.

Operator characteristics—All operators were asked to report place of residence, principal occupation, days of off-farm work, year in which his/her operation of the farm began, age, race, sex, and Spanish origin. If race, age, sex, and principal occupation were not reported, they were imputed based on information reported by farms with similar acreage, tenure, and value of sales. No imputations were made for nonresponse to place of residence, Spanish origin, off-farm work, or year began operation. Operators of Spanish origin were tabulated by reported race.

Farm production expenses—In 1987, additional specific expense items and a category for all other farm production expenses were added to the selected farm production expenses collected in 1982. Consequently, we are publishing total farm production expenses in 1987. The expenses are limited to those incurred in the operation of the farm business. Expenses include the share of the expenditures provided by landlords, contractors, and partners in the operation of the farm business. Property taxes paid by landlords are excluded. Expenditures for nonfarm activities; farm-related activities such as providing customwork for others, the production and harvest of forest products, and recreational services; and household expenses are excluded. In 1987, as in other recent censuses, operators producing crops, livestock, or poultry under contract often were unable or unwilling to estimate the cost of production inputs furnished by the contractors. As a consequence, extensive estimation was required for contract producers.

Commercial fertilizer—The expense for commercial fertilizer is the amount spent on fertilizer during 1987

including the cost of custom application. The cost of custom application was excluded from the 1982 and 1978 data.

Agricultural chemicals—These expenses include the cost of all insecticides, herbicides, fungicides, and other pesticides, including the cost of custom application. Data exclude commercial fertilizer purchased. The cost of custom application was excluded from the 1982 and 1978 data. The cost of lime was excluded from the 1987 and 1982 data, but included in 1978.

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 custom application of fertilizer and chemicals was included in the 1982 and 1978 customwork data, but is included in expenditures for these items in 1987. The cost of hired labor for operating rented or hired machinery is included as a hired farm and ranch labor expense.

Interest—In 1987, separate data were collected for interest paid on debts secured by real estate and interest paid on debts not secured by real estate. In 1982, only total interest expenses were collected.

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 1987 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 receipts from placing commodities in the Commodity Credit Corporation (CCC) loan program in 1987. It does not include payments received for participation in federal farm programs nor does it include income from farm-related sources such as customwork and other agricultural services, or income from nonfarm sources.

The value of crops sold in 1987 does not necessarily represent the sales from crops harvested in 1987. Data may include sales from crops produced in earlier years and exclude some crops produced in 1987, 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 the total value received in 1987.

The value of agricultural products sold was requested of all operators. If the operator failed to report this information, estimates were made based on the amount of crops harvested, livestock or poultry inventory or number sold. Extensive estimation was required for operators growing crops or livestock under contract.

Caution should be used when comparing sales in 1987 with sales reported in earlier censuses. Sales figures are expressed in current dollars and have not been adjusted for inflation or deflation.

Government payments—This category is limited to direct cash or generic commodity certificate (PIK) payments received by the farm operator in 1987. It includes deficiency and diversion payments; wool payments; payments from the Dairy Termination Program, the Conservation Reserve Program, other conservation programs, and all other federal farm programs under which payments were made directly to farm operators.

Other farm-related income—The 1987 report form included a new inquiry on income from farm-related sources. These data consist of gross income in 1987 before taxes and expenses from the sales of farm by-products and other sales and services closely related to the principal functions of the farm business. These data are for income producing activities that are primarily a by-product or supplemental to the farm operation. They exclude income from business activities that are separate from the farm business.

Customwork and other agricultural services—This income includes gross receipts received by farm operators for providing services for others such as planting, plowing, spraying, and harvesting. Income from customwork and other agricultural services is generally included in the agriculture census if it is closely related to the farming operation. However, it is excluded if it constitutes a separate business or is conducted from another location.

Rental of farmland—This income includes gross cash rent or share payments received from renting out farmland; payments received from the lease or sale of allotments for crops such as tobacco; and payments received for livestock pastured on a per-head, permonth, or per-pound basis. It excludes rental income from nonfarm property.

Sales of forest products—This income includes gross receipts from the sales of Christmas trees, standing timber, maple products, gum for naval stores, firewood, and other forest products from the farm business. It excludes income from nonfarm timber tracts and sawmill businesses.

Other farm-related income sources—This income includes gross receipts from hunting leases, fishing fees, camping, other recreational services, patronage dividends of cooperatives, sales of farm by-products, and other sales and services closely related to the farm business. It excludes income from nonfarm businesses.

Commodity Credit Corporations loans—This category includes loans for corn, wheat, soybeans, sorghum, barley, oats, cotton, peanuts, rye, rice, tobacco, and honey.

Agricultural chemicals used, including fertilizer and lime—For each type of agricultural chemical, the acres treated were to be reported only once even if the acres were fertilized or limed more than 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.

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.

Citrus enumeration-in the 1987 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 also was 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 1987 census, 7 caretakers in Arizona reported 175 grove owners having 12,000 acres of citrus; the 65 caretakers in Florida reported 3,000 grove owners having 170,000 acres of citrus; and 20 caretakers in Texas reported 800 grove owners having 14,500 acres of citrus.

Crop year or season covered—Acres and quantity harvested are for the calendar year 1987 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 1986 through July 1987 harvest season, except limes that were harvested in the April 1987 through March 1988 harvest season. The data for Texas relate to the quantity harvested in the September 1986 through May 1987 harvest season. The data for States, other than Florida and Texas, relate to the quantity harvested in the 1986-87 harvest season.

**Avocados**—The data for California relate to the quantity harvested in the November 1986 through November 1987 harvest season and for Florida the April 1987 through March 1988 harvest season.

Olives—The data for California relate to the quantity harvested in the September 1986 through March 1987 harvest season.

**Vegetables—**The data for Florida relate to the crop harvested in the September 1986 through August 1987 harvest season.

Sugarcane for sugar—The data for Florida relate to the cuttings from November 1986 through April 1987, and for Texas the cuttings from October 1986 through April 1987.

**Pineapples—**The data for Hawaii relate to the quantity harvested in the year ending May 31, 1987.

Coffee—The data for Hawaii relate to the 1986-87 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 crops; 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. An exception to this procedure is hay crops. When more than one cutting of hay was taken from the same acres, the acres are counted only once but the quantity harvested includes all cuttings. However, hay cut for both dry hay and green chop or silage would be reported for each applicable crop. For interplanted crops or "skip-row" crops, acres were to be reported according to the portion of the field occupied by each crop.

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

Quantity harvested was not obtained for crops such as vegetables; nursery and greenhouse crops; 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.

#### "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 1987, 1982, and 1978, selected data were collected from only a sample of farms. These data are subject to sampling error. For 1987, the six-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 23 through 28 of the 1987 census forms included inquiries on production expenses, commercial fertilizer and lime, chemicals, machinery and equipment, value of land and buildings, and income from farm-related sources. Estimates of the reliability of county totals for selected items are shown in table F of appendix C.

**Operators of Spanish origin—**No imputation was made for those not responding to the question on Spanish origin.

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.

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 crops and hay. Respondents were asked to include landlords' and contractors' shares. The value of commodities placed in CCC loans are included as sold. In 1987, all farms including abnormal farms were tabulated by size based on reported sales. In 1982 and 1978, abnormal farms were included in the total sales figure, but excluded from the detailed size breakdowns. Abnormal farms include institutional farms, experimental and research farms, and Indian reservations.

Farms with sales of less than \$1,000—This category includes all farms with actual sales of less than \$1,000, but having the production potential for sales of \$1,000 or more. These farms normally could be expected to sell \$1,000 or more of agricultural products.

Net cash return from agricultural sales for the farm unit—This category is derived by subtracting total operating expenditures from the gross market value of agricultural products sold. Depreciation and the change in inventory values are excluded from expenditures. Production expenditures may be understated on part owner and tenant farms because property taxes paid by landlords are excluded. Other landlord expenditures, such as insurance or rent paid, which are not readily known to renters may also be omitted or understated. Gross sales include sales by the operator as well as the share of sales received by

partners, landlords, and contractors. Consequently, the net cash return is that of the farm unit rather than the net farm income of the operator.

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 National Agricultural Statistics 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 on the place during the year and placed or sold. Incubator egg capacity on December 31, 1987, is tabulated under the column heading "Inventory" and the number of poultry hatched and placed or sold is under the heading "Sales."

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.

**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 of fresh weight. The conversion used was 4 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 of fresh weight. The conversion used was 3 pounds fresh weight to 1 pound dry weight.

Cherries—For 1987, cherries were reported as "sweet cherries," "tart cherries," or "cherries" depending on the regional form the respondent completed. On regional

forms for States where cherries are an important fruit crop, "sweet cherries" and "tart cherries" were listed separately. On the other regional forms, either "cherries" were listed or could be written in. For publication purposes, "cherries, total" could be shown along with the individual breakdown of "sweet cherries," "tart cherries," or "cherries, not specified." "Cherries, not specified" is used to account for cherries where the "sweet" and "tart" breakdown was not asked or where respondents wrote in "cherries" but did not specify or code the kind of cherry. All the individual cherry items may not be shown. Data for "sweet cherries," "tart cherries," and "cherries, not specified" are not available for 1982.

Other fruits and nuts—Data shown for other fruits and nuts relate to any fruits and nuts not having a specific code on the 1987 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 crops grown for sale—These data are a summation of the individual items reported. All of the individual items may not be shown.

Nursery, floriculture, vegetable and flower seed crops, sod, etc., grown in the open, irrigated—Data refer to farms reporting irrigated nursery, floriculture, vegetable and flower seeds, sod, bedding plants, etc., grown in the open.

Other grains—These data are for the total market value of other grains sold including dry edible beans, dry lima beans, buckwheat, dry southern peas (cowpeas), 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 1987 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 usually from publications of the National Agricultural Statistics 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

State tables 48 through 53 present detailed 1987 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 1987, all farms were tabulated by size based on reported sales. In 1982 and earlier censuses, abnormal farms were not tabulated based on sales size. In the tables on market value of agricultural products sold, the sales of abnormal farms in 1982 and earlier censuses were included in the total sales figure, but excluded from the detailed size categories. Abnormal farms included institutional farms, experimental and research farms, and Indian reservations. The category "farms with sales of less than \$1,000" included all farms with actual sales of less than \$1,000 but having the production potential for sales of \$1,000 or more. These farms normally could be expected to sell \$1,000 or more of agricultural products.

The sales size categories used in this report are consistent with the standard business size categories issued by Office of Management and Budget (OMB) in 1982. In State table 52, data are presented for four sales size categories between \$10,000 and \$49,999. This provides users with bridge data under both the OMB and the 1978 census classifications. For the 1992 census, data will be presented only for the OMB sales size categories of \$10,000 to \$24,999 and \$25,000 to \$49,999.

Abnormal farms—This category includes institutional farms, experimental and research farms, and Indian reservations. Institutional farms include those operated by hospitals, penitentiaries, churches, schools, grazing associations, and government agencies. In 1987 and 1982, nongovernmental units such as church farms and Future Farmers of America camps 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.

Farms by tenure of operator—The classifications of tenure used in the 1987 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 1987 census. The classifications used were:

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

Partnership, including family partnership.

Corporation, including family corporation.

Other, cooperative, estate or trust, institutional, etc.

Corporations were subclassified by two additional characteristics into:

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

Farms by age and principal occupation of operator—Data on age and principal occupation were requested from all operators in 1987. The principal occupation classifications used were:

**Farming**—The operator spent 50 percent or more of his/her worktime in 1987 in farming or ranching.

Other—The operator spent more than 50 percent of his/her worktime in 1987 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 1987, all agricultural production establishments (farms, ranches, nurseries, greenhouses, etc.) were classified by type of activity using the standard industrial classification (SIC) system. These classifications, found in the 1987 SIC Manual<sup>1</sup>, are used to promote uniformity and comparability in the presentation of statistical data collected by various agencies.

<sup>&</sup>lt;sup>1</sup>Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-003-14-2.

An establishment primarily engaged in crop production (major group 01) or production of livestock and animal specialties (major group 02) is classified in the four-digit industry and three-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 four-digit industry, but 50 percent or more from the products of two or more four-digit industries within the same three-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. Establishments that derive 50 percent or more of the value of sales from horticultural specialties of industry group 018 are classified in industry 0181 or 0182 according to their primary activity.

Characteristics of all farms by selected SIC groupings are shown in State tables 18 and 53. The SIC groupings shown in State table 53, 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, buckwheat, cowpeas, dry field and seed beans and peas, flaxseed, lentils, milo, mustard seed, oats, popcorn, rye, safflower, sorghum, sunflowers, and other small grains.

Cotton (0131)—Cotton and cottonseed.

Tobacco (0132)—Tobacco.

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

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, bananas, coffee, dates, figs, olives, pineapples, and tropical fruit.

Horticultural specialties (018)—Bedding plants, bulbs, florists' greens, flower and vegetable seeds, flowers, foliage, fruit stocks, nursery stock, ornamental plants, shrubberies, 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 three-digit industry group.

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

**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, ducks, geese, pheasants, pigeons, quail, and squab.

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

General farms, primarily livestock and animal specialties (029)— Livestock and animal specialties and their products, but less than 50 percent of sales from any single three-digit industry group.

The SIC manual was revised for 1987. Animal aquaculture (0273) was established as a new industry and horticultural specialties, not elsewhere classified (0189) was deleted.

# APPENDIX B. Places With All Cropland in the Conservation Reserve **Program**

The Food Security Act of 1985 established the Conservation Reserve Program (CRP). This program provides annual payments for highly erodible cropland enrolled in the program and meeting its conservation requirements. It also requires that the land be taken out of agricultural production for 10 years.

The 1987 Census of Agriculture includes Conservation Reserve acreage as land in farms on operations that meet the census farm definition. For census purposes, a farm is any place from which agricultural products of \$1,000 or more were produced and sold or normally would have been sold during the census year. Operations which placed all of their cropland in the CRP and did not otherwise meet the farm definition based upon sales, livestock inventories, planted crops, or other criteria for potential sales were not included as farms in the census tabulations.

The following table provides CRP data for places not meeting the census farm definition ("whole farm" CRP places). It also contains separate but corresponding CRP data for farms included in the census tabulations. In addition to State data, detailed county data are presented for counties with three or more"whole farm" CRP places reported. For counties with less than three "whole farm" CRP places reported, their data are combined and reported in "all other counties."

The data for "whole farm" CRP places are not complete for all counties. The census mail list was developed from sources which indicated the farm had agricultural production activity. It was not designed to cover all "whole farm" CRP places. Therefore, the data for these places are limited to what was reported in the census and have not been adjusted to account for nonresponse, incomplete coverage, and reporting errors.

## Land in Conservation Reserve Program: 1987

	Agricultural places excluded by farm definition with acres in the CRP			Farms with acres in the CRP			
Geographic area	ļ	III trie Che				T	
	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)	
Indiana	562	51 062	27 490	1 642	564 876	79 945	
dams	5	735	302	15	4 841	287	
llen	22	1 152	805	33	8 011	983	
lackford	5	719	531	31	10 427	2 034 257	
FOWN	6 5	668   278	144 169	41	1 035 1 677	257 (D)	
arrollass	8	408	263	13	7 351	637	
lark	6	1 063	420	18	2 783	839	
lay	1 71	587	423	17	6 968	653	
rawford	13	1 742	411	24	12 240	811	
aviess	3	58	35	12	2 226	530	
e Kalb	22	1 251	761	60	21 981	3 170	
elaware	4	183	119	11	6 589	735	
ubois	4	657	138	30	9 888	1 669	
oyd	3	227 372	121   160	16	586   7 843	108 607	
ountainranklin	4	653	136	20	4 255	697	
ulton	4	207	169	25	10 713	892	
ibson	5	446	313	-	1 959	295	
rant	8	651	535	9	1 025	185	
reene	8	490	214	20	8 909	1 107	
ancock	3	99	64	5	2 821	425	
arrison	4	454	143	26	4 153	1 216	
untington	13	761	342	38	12 112	1 077 1 485	
ackson	9 19	547 1 638	176 1 200	20 69	9 201 18 067	3 127	
Ny	1 19	373	189	16	4 529	535	
onings	6	329	110	18	9 867	1 975	
osciusko	14	952	493	57	21 322	2 522	
agrange	1 41	571	157	13	4 370	674	
ake	5 !	167	101	15	4 762	740	
a Porte	4	201	119	17	6 848	1 071	
awrence	15	1 437	799	35	12 618	3 073	
arshall	j <u>3</u>	191	101	24	6 356	733	
iami	7 3	362	216	23	11 107 8 144	1 281 (D)	
ewton	32	85 2 625	70   1 717	69	16 575	2 859	
oble	11	704	365	17	3 123	555	
wen	' <u>'</u>	579	162	21	6 171	1 207	
arke	5	410	142	10	6 068	408	
ery	11	1 899	375	14	4 363	474	
ke	4	317	133	11	5 302	678	
Jlaski	3	197	195	23	12 132	(D)	
utnam	10	990	441	31	10 251	1 929	
andolph	.5	256	150	18	3 595	896	
ipley	10	867	306	29	6 654	596	
ush t. Joseph	4 3	837 122	566   52	8 8	3 514 1 460	380 150	

# Land in Conservation Reserve Program: 1987-Con.

[For meaning of abbreviations and symbols, see introductory text]

Geographic area	Agricultural places excluded by farm definition with acres in the CRP			Farms with acres in the CRP		
	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)
Spencer Starke Starke Steuben Sullivan Vermillion Wabash Warren Warrien Warrin Warrien Warrien Wayre Wells White Whitte Whittey All other counties	3 21 23 4 3 21 3 5 18 12 10 4 32 35	166 2 086 2 411 185 125 1 571 3 718 497 3 725 1 184 905 412 2 596 3 908	83 1 378 1 537 134 63 1 076 300 162 2 289 790 743 394 1 832 1 481	20 34 52 13 10 48 9 11 54 39 26 13 64 210	5 573 23 794 23 284 7 414 2 552 14 512 3 343 3 599 14 846 10 347 4 707 7 209 15 682	575 1 897 4 603 425 182 2 656 288 447 3 776 2 139 1 188 981 3 645

# APPENDIX C. Statistical Methodology

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- B. RELIABILITY ESTIMATES FOR NUMBER OF FARMS IN A COUNTY REPORTING A COMPLETE COUNT ITEM: 1987
- C. RELIABILITY ESTIMATES FOR NUMBER OF FARMS IN A COUNTY REPORTING A SAMPLE ITEM: 1987
- D. RELIABILITY ESTIMATES OF STATE TOTALS: 1987
- E. RELIABILITY ESTIMATES OF PERCENT CHANGE IN STATE TOTALS: 1982 TO 1987
- F. RELIABILITY ESTIMATES OF COUNTY TOTALS: 1987
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#### MAIL LIST MODEL

A statistical discriminant model was developed to predict the probability that a mail list addressee operated a farm. The model was used to identify the 4.1 million records from the preliminary census mail list of 6.0 million records that would receive a census of agriculture report form. Records from the 1982 census mail list were used to build the model. Record characteristics such as the source of the mail list record (see appendix A for a description of record sources), number of source lists on which the record appeared, expected value of agricultural sales, and geographic location were used to separate mail list records into model groups. The proportion of 1982 census farm records in each group was calculated to provide an estimate of the probability that an addressee in the group operated a farm.

Using these same group definitions, the 1987 census mail list records were separated into groups, each with an associated estimate of farm probability from the model. The 4.1 million mail list records in groups with the largest estimate of farm probability were selected to receive the census report form. A large percentage of the 1.9 million records that were dropped from the 6.0 million preliminary census mail list were nonfarm records from the previous census. This procedure was used to obtain a more complete census enumeration without excessive respondent burden and data collection cost.

#### **CENSUS SAMPLE DESIGN**

Each of the 4.1 million name and address records on the census mail list was designated to receive one of three different types of census report forms. The three forms were the nonsample census form (a four-page form), the sample form (a six-page form), and the short form (a two-page form). Sections 1 through 22 of the sample form were identical to sections on the nonsample census form. However, the sample form contained additional sections on farm production expenditures, usage of fertilizers and insecticides, value of machinery and equipment, value of land and buildings, and farm-related income. The short form contained abbreviated versions of the sections on the nonsample census form. These three different forms were used to reduce the response burden of the census, while providing quality information on a large number of data items at the county level.

The sample form was mailed to all mail list records in Alaska and Hawaii and to a sample of records in other States identified when the mail list was constructed. Addresses were selected into the sample with certainty if they were expected to have large total values of agricultural products sold or large acreage, if they were firms with two or more farms, or if they had other special characteristics. When a nonsample large farm was identified during processing, a supplemental form that contained the additional data inquiries was mailed. All farms in counties with less than 100 farms in 1982 were included in the sample with certainty; counties containing 100 to 199 farms in 1982 were systematically sampled at a rate of 1 in 2; and counties containing 200 or more farms in 1982 were systematically sampled at a rate of 1 in 6. This differential sample scheme was used to provide reliable data for sections 23 through 28 of the report form for all counties.

To determine which mail list records would receive the short form, all mail list records not designated for the sample were sorted into model groups according to farm probability as specified by the mail list model. The 906,000 mail list records in the model groups with the lowest probability of being farms and with an expected total value of agricultural product sales less than \$20,000 were designated to receive the short form. The remaining mail list records were selected to receive the nonsample census form.

#### **CENSUS ESTIMATION**

The 1987 Census of Agriculture used two types of statistical estimation procedures. These estimation

procedures accounted both for nonresponse to the data collection and for the sample data collection. These procedures are used because some farm operators never respond to the census despite numerous attempts to contact them, and not all farm operators are requested to provide the sample data items.

#### **Whole Farm Nonresponse Estimation**

A statistical estimation procedure was used to account for the census farms among mail list nonrespondents that were not designated for telephone followup. A stratified systematic sample of eligible census nonrespondents were mailed a simplified report form. Five sample strata were defined based on form type, expected value of sales, and previous census status. The report form was designed to provide sufficient information to determine farm status. Additional mail and telephone contacts were made to survey nonrespondents to obtain sufficient response for survey estimates.

Estimates of the proportion of census nonrespondents that operated farms were made for each stratum in the State using survey results and applied to the total number of census nonrespondents in that stratum. A synthetic estimation procedure was used to estimate the number of census nonrespondents that operated farms for each county by stratum. This estimation procedure is based on the assumption that the distribution of farms in a stratum by county is the same for census nonrespondents as for census respondents.

Within each stratum in a county, a noninteger nonresponse weight was calculated and assigned to each eligible respondent farm record. The procedure used for calculating the nonresponse weight assumed the eligible census respondents and the nonrespondent farm operations in a county had similar characteristics within each stratum. The noninteger nonresponse weight was the ratio of the sum of the estimated number of nonrespondent farms (using nonresponse survey results) and the number of eligible census respondent farms to the number of eligible census respondent farms. Stratum controls were established to ensure that this weight was never greater than 2.0. The noninteger nonresponse weight was used in the estimation of the final weight for the sample items. It was randomly rounded to an integer weight of either 1 or 2 for each record for tabulating the complete count items.

The procedure assumed that we obtain complete response from large and unique farm operations because these cases received intensive telephone followup during census processing. In situations where addressees could not be contacted by telephone or refused to cooperate, secondary sources such as Agricultural Stabilization and Conservation Service offices or county extension agents were asked to provide information as to whether or not the addressee had agricultural activities. Data from previous census reports for the specific addressee, in conjunction with other information, were used to complete the census report form.

Table A quantifies the effect of the nonresponse estimation procedure on selected census data items. The percentage of the census value contributed by nonresponse estimation as provided in this table indicates the potential for bias in published figures resulting from this procedure. The estimates provided in these tables do not reflect the effect of nonresponse to individual data items on respondents' census report forms. The effect of this item nonresponse is discussed further under Census Nonsampling Error.

Table A. Percent of State Totals Contributed by Whole Farm Nonresponse Estimation: 1987

Item	Percent of total
Farmsnumber	10.6
Land in farmsacres	7.3
Value of land and buildings\$1,000	7.8
Market value of agricultural products sold\$1,000	5.0
Harvested croplandacres	6.8
Corn for grain or seedacres	6.3
Wheat for grainacres	7.1
Livestock and poultry inventory:	
Cattle and calvesnumber	7.3
Hogs and pigsnumber	4.7
Hens and pullets of laying agenumber	.3

#### Sample Estimation

All respondent sample records received a sample weight. The sample data estimates the actual figures that would have resulted from a complete census of the items in sections 23 through 28 of the report form. The estimates were obtained from an iterative ratio estimation procedure that resulted in the assignment of a weight to each record containing sample items. For any given county, a sample item total was estimated by multiplying the data items for each farm in the county by the corresponding sample weight and summing overall sample records in the county.

Each sample farm was assigned one sample weight to be used to produce estimates for all sample items. For example, if the weight given to a sample farm had the value 5, all sample data items reported by that farm would be multiplied by 5. The weight assigned a certainty farm was 1. The estimation procedure used to assign weights was performed for each county.

Within a county, the ratio estimation procedure for farms was performed in three steps using three variables. The first variable contained eight 1987 total value of agricultural production (TVP) groups. Both the second and third variables, Standard Industrial Classification (SIC) code and farm acreage, contained two groups. The variable groups were as follows:

IVP
\$1 to \$999
\$1,000 to \$ 2,499
\$2,500 to \$ 4,999
\$5,000 to \$ 9,999
\$10,000 to \$24,999
\$25,000 to \$49,999
\$50,000 to \$99,999

\$100,000 or more

T\/D

## SIC Acres

01 All crops 0 to 69 02 All livestock 70 or more

The first step in the estimation procedure was to partition the sample records into 32 mutually exclusive initial post strata formed by combining the three variable groups. This produced a three dimensional array where the cells of the array corresponded to the initial post strata groups. Each sample farm record was assigned an initial weight equal to the ratio of the total farm count to the sample farm count, expanded for nonresponse estimation, for the cell containing the sample farm. This weight was approximately equal to the inverse of the probability of selecting a farm for the census sample.

The second step in the estimation procedure was to combine, if necessary, the cells of the array (prior to the repeated ratio estimation) to increase the reliability of the ratio estimation procedure. Any cell within the array that either contained less than 10 sample farms or had a ratio of total farms to sample farms that was more than 2 times the mail sample rate was collapsed with another cell (in the same variable) according to a specified collapsing pattern. New total farm counts and sample farm counts were computed for each of the collapsed cells (final post strata) and were used in the ratio estimation procedure to calculate final sample weights.

In the third step in the ratio estimation procedure, complete counts for the three variables (TVP, SIC, acreage) were used to compute the marginals of the array defined by the final post strata. Factors were then applied to expanded sample totals in each cell of the array to obtain agreement with the row marginal (TVP) complete counts. The sample totals then had factors applied to obtain agreement with the column marginal (SIC) complete counts. Lastly, the sample totals had factors applied to obtain agreement with the depth marginal (acreage) complete counts. This procedure that requires the row totals, then the column totals, and then the depth totals to agree with the complete counts for the rows, columns, and depths, respectively, is continued iteratively until the process converges (the marginal totals agree with the complete count totals).

The ratio of the adjusted total farm count to the sample farm count obtained from the second iteration of the estimation procedure was the noninteger final post stratum sample weight assigned to the sample farm records in that post stratum. The noninteger sample weight, the product of the noninteger final post stratum sample weight and the nonresponse weight, was randomly rounded to an integer weight for tabulation. If, for example, the final weight for the

farms in a particular group was 7.2, then one-fifth of the sample farms in this group were randomly assigned a weight of 8 and the remaining four-fifths received a weight of 7.

#### CENSUS SAMPLING ERROR

Sampling error in the census data results from the nonresponse sample and the census sample data collection. Census items were classified as either complete count or sample data items. The complete count items were asked of all farm operators. The complete count data items included land in farms, harvested cropland, livestock inventory and sales, crop acreages, quantities harvested and crop sales, land use, irrigation, government loans and payments, conservation acreage, type of organization, and operator characteristics (sections 1 through 22 of the census report form). Variability in the complete count data items is considerably smaller than in the sample items as the variation is due only to the nonresponse sample estimation procedure. The sample items were asked of approximately 25 percent of the total census farm operators. The sample data items included farm production expenditures, fertilizer and chemical usage, farm machinery and equipment, value of land and buildings, and farm-related income (sections 23 through 28 of the census report form). Variability in the estimates of sample items is due both to the census sample selection and estimation procedure and the nonresponse sample estimation procedure.

The sample for the 1987 Census of Agriculture is one of a large number of 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 sample estimates is called the sampling deviation. The standard error 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 percent relative standard error of estimate is defined as the standard error of the estimate divided by the value being estimated multiplied by 100. If all possible samples were selected, each of the samples were surveyed under essentially the same conditions, and an estimate and its standard error were calculated from each sample, then:

- 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.
- Approximately 90 percent of the intervals from 1.65 standard errors below the estimate to 1.65 standard errors above the estimate would include the average value of all possible samples.

The computations involved to define the above confidence statements are illustrated in the following example. Assume that the estimate of number of farms for the State is 94,382 and the relative standard error of the estimate (percent) is .1 percent (0.001). Multiplying 94,382 by 0.001 yields 94, the standard error. Therefore, a 67-percent confidence interval is 94,288 to 94,476 (i.e., 94,382 plus or minus 94). 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 90 percent confidence interval is 94,227 to 94,538 (i.e., 94,382 plus or minus 1.65 x 94).

Tables B and C provide the reliability estimates of the estimated number of farms in a county reporting complete count and sample items, respectively. Both tables show the percent relative standard errors for selected estimated number of farms in a county reporting an item. These are derived from a regression equation. The parameters of the regression equation were estimated using the estimated number of farms in a county reporting the complete count or sample item as the independent variable and the standard error of that estimate as the dependent variable for all counties in the State.

Table B. Reliability Estimates for Number of Farms in a County Reporting a Complete Count Item: 1987

Farms	Relative standard error of estimate (percent)
Number of farms reporting:	
25	6.5
50	4.5
75	3.7
100	3.1
150	2.5
200	2.1
300	1.6
500	1.1
750	.7
1,000	.3
1,500	.3
2,000	.2

Note: Complete count items are items in sections 1 to 22 of the report form

To illustrate the use of these tables, assume that the estimate of the number of farms reporting hogs and pigs for a particular county, as given in county table 12, is 89. Since hogs and pigs is a complete count data item, refer to table B and select the estimated relative standard error of the estimate from the row whose value is equal to or just less than the estimated number of farms, 89. For this example, the relative standard error of the estimate comes from the row for 75 farms reporting. For sample data items, follow the same procedure using table C. In counties that had less than 100 farms in the 1982 Census of Agriculture, table C does not apply because the farms in these

counties were sampled with certainty (1 in 1), and thus, the reliability estimates for the number of farms in these counties are smaller than for counties that were sampled at lower rates (1 in 2 or 1 in 6).

Table C. Reliability Estimates for Number of Farms in a County Reporting a Sample Item: 1987

Farms	Relative standard error of estimate (percent)
Number of farms reporting:	
25	38.0
50	26.4
75	21.3
100	18.1
150	14.3
200	11.9
300	9.0
500	5.6
750	2.5
1,000	2.2
1,500	1.8
2,000	1.6

Note: Sample items are items in sections 23 to 28 of the report form.

Table D presents the relative standard error of selected State data items for all farms and for all farms with sales of \$10,000 or more. The percent relative standard error of the estimate for complete count data measures the variation associated with the sample-based adjustment for whole farm nonresponse. The percent relative standard error of the estimate for sample items measures both the sampling error due to the nonresponse sample estimation procedure and the census sample selection and estimation procedure. The reliability of State estimates may vary substantially from State to State. Generally, State estimates for a given data item are less reliable than the corresponding U.S. estimate.

Table E presents the standard error (not relative standard error) for percent change in State totals from 1982 to 1987. The general purpose of the percent change estimate is to provide a relative measure of the difference in a characteristic between censuses. The relative change for a given characteristic is defined as the ratio of the difference of the 1987 and the 1982 estimate for that characteristic to the 1982 estimate. This ratio is multiplied by 100 to obtain the percent change. The percent standard error of a percent change estimate, then, is the standard error of the ratio multiplied by 100.

Table F presents the relative standard error for county totals for 10 major complete count items and 7 sample items. The relative standard error of the estimate (percent) for the same item differs among counties in a State. Reasons for this are differences among counties in (1) the total number of farms, (2) the number of large farms included with certainty, (3) the size classifications of the farms sampled, (4) the amount of nonresponse, (5) the general agricultural characteristics, and (6) the specific characteristic being measured.

#### **CENSUS NONSAMPLING ERROR**

The accuracy of the census counts are affected by the joint effects of the sampling errors described in the previous section and nonsampling errors. Extensive efforts were made to compile a complete and accurate mail list for the census, to design an understandable report form and instructions, and to minimize processing errors through the use of quality control, verification, and check measures on specific operations. Nonsampling errors arise from incompleteness of the census mail list, duplication in the mail list, incorrect data reporting, errors in editing of reported data, and errors in imputation for missing data. These specific nonsampling errors are further discussed in this section. Evaluation studies will be conducted to measure the extent of certain nonsampling errors such as coverage error, classification error, and item imputation.

#### **Census Coverage**

The main objective of the census of agriculture is to obtain a complete and accurate enumeration of U.S. farms with accurate data on all aspects of the agricultural operation. However, the cost and availability of resources for this enumeration place restrictions on operationally feasible data collection methodologies. The past five agriculture censuses have been conducted by mail enumeration with telephone contact for selected nonrespondents. The completeness of such an enumeration thus depends to a large extent on the coverage of farm operations by the census mail list.

Historically, the census of agriculture has included approximately 90 percent of the farms in the United States and over 96 percent of the agricultural production. Complete enumeration of agricultural operations satisfying the farm definition of \$1,000 or more in agricultural sales is complicated by fluctuations in agricultural operations qualifying for enumeration, the variety of arrangements under which farms are operated, the multiplicity of names used by an operation, the number of operations in which an operator participates, the accuracy of data reporting, etc. A new mail list is compiled for each census because no current single list of agricultural operations is comprehensive.

An evaluation of census coverage has been conducted for each census of agriculture since 1945. The evaluation provides estimates of the completeness of census farm count and major census data items. In addition, the evaluation helps to identify problems in the census enumeration and provide information that can form the basis for improvements. The results of the 1987 Coverage Evaluation program will be published in volume 2, part 2.

The evaluation of coverage conducted in 1987 was designed to measure errors in the census mail list and in farm classification. Mail list error includes a measurement of farms not on the census mail list (undercount), and a measurement of farms enumerated more than once in the

census (overcount). Classification error includes a measurement of farms classified as nonfarms in the census (undercount) and of nonfarms classified as farms in the census (overcount). Classification error arises from reporting and processing errors. Mail list undercount dominates all coverage errors. Net coverage error is defined as the difference of undercounted and overcounted farms. Measurements of these errors, as well as a description of the complete coverage program, will be available in the Coverage Evaluation report.

### **Mail List Coverage**

A major problem with the use of a mail list for the census of agriculture enumeration is the difficulties that are encountered in compiling a complete list. The percentage of farms on the census mail list varies considerably by State. Several reasons have contributed to farm operators' names not being included on the census mail list—the operation may have been started after the mail list was developed, the operation may be so small as not to appear in agricultural related source lists used in compiling the census list, or the operation may have been falsely classified as a nonfarm prior to mailout. A large proportion of the farms not included on the mail list were small in both acres and sales of agricultural products.

The 1987 Census of Agriculture Coverage Evaluation used the area segment sample of the 1987 June Enumerative Survey (JES) of the National Agricultural Statistical Service (NASS) to estimate farms not on the census mail list. The Census Bureau contracted with the NASS to augment the JES data collection and receive survey data under the confidentiality protection afforded by Title 13, U.S. Code, from all residents of area sample segments with agricultural activity. These survey records were matched to the census mail list. Records that did not match were mailed a census of agriculture report form to estimate mail list coverage. Estimates of farms not on the census mail list used the capture-recapture dual frame estimator that will be described in the Coverage Evaluation report.

Table G provides coverage evaluation estimates of the number of farms not on the mail list and selected characteristics of those farms with their percent relative standard error. The table also provides an estimate of characteristics of farms not on the mail list as a percentage of total farms in the State. The estimate of total farms in the State is based on census farm count and the estimated number of farms not on the census mail list. This estimate of total farms in the State was not adjusted for classification and list duplication errors. Estimates of these errors will be made at the regional rather than the State level and will be available in the Coverage Evaluation report. The table provides the standard error (not relative standard error) of this percent estimate.

#### Respondent and Enumerator Error

Incorrect or incomplete responses to the mailed census report form or to the questions posed by a telephone

enumerator introduce error into the census data. Such incorrect information can lead, in some cases, to incorrect enumeration of farms. This type of reporting error is measured by the Classification Error Study discussed later in this section. To reduce all types of reporting error, questions were phrased as clearly as possible based on tests of the census report form, and detailed instructions for completing the report form were provided to each addressee. In addition, each respondent's answers were checked for completeness and consistency.

### **Item Nonresponse**

Nonresponse to particular questions on the census report that we would logically or statistically expect to be present may create a type of nonsampling error in both complete count and sample data. When information reported for another farm with similar characteristics is used to edit or impute for item nonresponse, the data may be biased because the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. Any attempt to correct the data for nonresponse may not completely reflect this difference either at the element level (individual farm operation) or on the average.

## **Processing Error**

The many steps of processing of each census report form are sources for the introduction of nonsampling error. The processing of the census report forms includes clerical screening for farm activity, computerized check-in of report forms and followup of nonrespondents, keying and transmittal of completed report forms, computerized editing of inconsistent and missing data, review and correction of individual records referred from the computer edit, review and correction of tabulated data, and electronic data processing. These operations undergo a number of quality control checks to ensure as accurate an application as possible, yet some errors are not detected and corrected.

#### Classification Error

An evaluation study of classification errors was conducted in the 1987 Census of Agriculture as part of the census coverage evaluation program. A sample of mail list respondents was selected, and these addresses reenumerated to determine whether they were a farm or nonfarm. A farm status determination was made based on the evaluation questionnaire and compared with the status based on the data reported on the census form. Differences in status were reconciled.

In past censuses, the proportion of farms undercounted due to classification errors was higher for farms with small values of sales. The classification error rate was higher for (1) livestock farms than crop farms, (2) farms with a small number of acres than larger farms, or (3) tenant farms than full or part-owner farms. Results from the 1987 classification error study will be published in the Coverage Evaluation report.

# EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

For the 1987 Census of Agriculture, as in previous censuses, all reported data were keyed and then edited by computer. The edits were used to determine whether the reports met the minimum criteria to be counted as farms in the census. Computer edits also performed a series of complex, logical checks of consistency and completeness of item responses. They provided the basis for deciding to accept, impute (supply), delete, or alter the reported value for each data record item.

Whenever possible, edit imputations, deletions, and changes were based on component or related data on the respondent's report form. For some items, such as operator characteristics, data from the previous census were used when available. Values for other missing or unacceptable reported data items were calculated based on reported quantities and known price parameters.

When these and similar methods were not available and values had to be supplied, the imputation process used information reported for another farm operation in a geographically adjacent area with characteristics similar to those of the farm operation with incomplete data. For example, a farm operation that reported acres of corn harvested, but did not report quantity of corn harvested, was assigned the same bushels of corn per acre harvested as that of the last nearby farm with similar characteristics that reported acceptable yields during that particular execution of the computer edit. The imputation for missing items in each section of the report form was conducted separately; thus, assigned values for one operation could come from more than one respondent.

Prior to the imputation operation, a set of default values and relationships were assigned to the possible imputation variables. The relationships and values varied depending on the item being imputed. For example, different default values were assigned for several standard industrial classification and total value of sales categories when imputing hired farm labor expenses. These values and item relationships for the possible imputation variables were stored in the computer in a series of matrices. The computer records were sorted by reported State and county, where the county sequence was based on similar types of farms and agricultural practices.

Each execution of the computer edit consisted of records from only one State. For a given execution of the edit, the stored entries in the various matrices were retained in the computer only until a succeeding record having acceptable characteristics for some sections of the report form was processed by the computer. Then the acceptable responses

of the succeeding operation replaced those previously stored. When a record processed through the edit had unreported or unacceptable data, the record was assigned the last acceptable ratio or response from an operation with a similar set of characteristics. Once each execution of the computer edit for a State was completed, the possible imputation variables were reset to the default values and relationships for subsequent executions.

After the initial computer edit, keyed reports not meeting the census farm definition were reviewed to ensure that the data were keyed correctly. Edit referrals were generated for about 30 percent of the reports included as farms, and they were also reviewed for keying accuracy and to ensure that the computer edit actions were correct. If the results of the computer edit were not acceptable, corrections were made and the record was reedited. More extensive discussions of the edit and item imputation methodology with measures of the extent of imputation in the census estimates will be provided in a separate research report.

Tables D through G follow.

# Table D. Reliability Estimates of State Totals: 1987

[For meaning of abbreviations and symbols, see introductory text]

		All fa	ms	Farms with sales of \$	10,000 or more
item		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standa error of estima (percen
armsand in farms Average size of farm	acres	70 506 16 170 895 229	(Z) .1 .1	40 486 14 373 913 355	
/alue of land and buildings1Average per farmAverage per acre	\$1,000	18 715 544 265 446 1 158	.5 .6 .9	16 267 368 402 438 1 134	1
stimated market value of all machinery and equipment <sup>1</sup>	\$1,000	3 129 398 44 502	.6	2 729 951 67 628	
arms by size: 1 to 9 acres		5 444	.5	1 503	1
10 to 49 acres	acres	20 898 15 010	.6 .2 .3	4 523 2 179	1
50 to 179 acres	acres farms acres	412 052 24 892 2 557 352	.3 .2 .2	60 841   12 964   1 480 596	
180 to 499 acres	1	15 902 4 810 883	.2	14 645 4 502 225	
500 to 999 acres	farms	6 670	.3 ]	6 614	
1,000 to 1,999 acres		4 584 410 2 291	.3	4 549 124 2 284	
2,000 acres or more	acres farms acres	2 987 817   297   797 483	-	2 979 121 297 797 483	
otal cropland	farms	65 529	.1	38 931	
Harvested cropland	acres farms acres	13 592 873 61 689 10 706 298	.1   .1   .1	12 558 448 38 239 10 118 251	
Acres harvested:	farms.	6 677	.4	761	1
10 to 49 acres	acres	32 099 18 268	.5	3 296 3 706	1
50 to 99 acres	acres farms	469 774 10 947	.2	114 223 8 224	
100 to 199 acres		770 833 9 495	.3	598 854 9 261	
200 to 499 acres	acres farms	1 347 360   10 712	.4	1 319 536 10 697	
500 to 999 acres	acres	3 410 400 4 401	.3	3 406 510 4 401	
1,000 acres or more	acres	3 005 244 1 189 1 670 588	.2	3 005 244 1 189 1 670 588	
Cropland used only for pasture or grazing	farms	22 987	.2	12 600	
Other cropland	acres farms acres	746 649 35 907 2 139 926	.3 .1 .2	510 657   26 608   1 929 540	
rrigated land		1 481 169 703	.7	1 176 167 186	
Acres irrigated:		542	1.1	310	
10 to 49 acres	acres	1 285   221	1.8	698 159	2
50 to 99 acres	acres	5 253 185	2.2	3 967 174	
	acres	13 324	2.4	12 680	2
100 to 199 acres	acres	258 35 984 214	1.9 1.9 1.4	258 35 984 214	
500 to 999 acres	acres i	63 010   45	1.4	63 010 45	
1,000 acres or more	acres farms	28 702 16	-	28 702   16	
Market value of agricultural products sold	acres \$1,000	22 145 4 067 684	.1	22 145 3 955 893	
Average per farm	:	57 693	.1	97 710	
Less than \$2,500	\$1,000	12 433 13 968	.3	-	
\$2,500 to \$4,999	farms \$1,000	8 072   29 267	.4	-	
\$5,000 to \$9,999	farms \$1,000	9 515 68 555	.3	-	
\$10,000 to \$24,999	\$1.0001	12 820 207 805	.3	12 820 207 805	
\$25,000 to \$49,999	farms \$1,000	8 682 310 731	.4	8 682 310 731	
\$50,000 to \$99,999	\$1.000	8 031 574 798	.4	8 031 574 798	
\$100,000 or more	\$1,000	10 953 2 862 558	.2 .1	10 953 2 862 558	
Sales by commodity or commodity group:  Crops, including nursery and greenhouse crops	farms	54 079 2 127 135	.1	35 916 2 061 697	
Grains	\$1,000	1 964 283 1 022 700	.1	1 911 291 1 000 063	
Wheat	\$1,000	74 937	.1	71 489	
SoybeansSorghum for grain	\$1,000	840 563 726	.1 2.9	814 200 689	<b>3</b>
Barley	\$1,000 \$1,000	59 2 779	6.0 1.0	57 2 437	1

See footnotes at end of table.

Table D. Reliability Estimates of State Totals: 1987—Con.

		All farm	IS	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
Sales by commodity or commodity group—Con. Crops, including nursery and greenhouse crops—Con.					
Cotton and cottonseed	\$1,000	-	_	-	-
Tobacco	\$1,000 \$1,000	15 113 25 774	1.0	10 690 20 347	1.3
Hay, silage, and field seeds Vegetables, sweet corn, and melons Fruits, nuts, and berries	\$1,000	34 383	.6	33 444	1.3 .8 .7 1.3
Fruits, nuts, and berriesNursery and greenhouse crops	\$1,000 \$1,000	11 457 65 774	1.2	10 639 64 981	1.3
Other crops	\$1,000	10 350	.9	10 306	
Livestock, poultry, and their products	farms	40 277	.1	24 457	:
Poultry and poultry products	\$1,000 \$1,000	1 940 549 406 886	.1	1 894 196 406 527	1.0
Dairy products Cattle and calves	\$1,000	243 229 419 966	.4 .2 .2	242 344 387 329	
Hogs and pigs	\$1.000	847 652	.2	839 319	
Sheep, lambs, and wool	\$1,000 \$1,000	4 819 17 997	1.1 1.3	3 162 15 515	1.0 1.4
arms by standard industrial classification:					
Cash grains (011)	acres	35 912 11 137 726	.1	24 340 10 394 136	
Field crops, except cash grains (013)	farms	3 265	.6	475	1.0
Vegetables and melons (016)	acres	280 134 484	.8 1.6	98 198 268	1.0 2
	acres	56 213	1.3	50 389	1.3
Fruits and tree nuts (017)		451 24 808	1.7	151 16 292	2.0
Horticultural specialties (018)	acres farms	542	1.9	349	2.4
General farms, primarily crop (019)	acroe i	24 880 1 310	1.0	21 678 412	1,3
denotal familis, plittainy crop (019)	acres	175 678	1.3	120 507	1.6
Livestock, except dairy, poultry, and animal specialties (021)		22 609	.2	10 529	.:
Dairy farms (024)	acres	3 404 010 2 756	.2 .2 .6	2 686 468 2 585	.2 .6
Poultry and eggs (025)	COTOD	667 227 892	.5 .8	660 320 744	      
rouldy and eggs (025)	acres	118 648	.6	113 971	). ).
Animal specialties (027)		1 608	.9	178	3.0
General farms, primarily livestock and animal specialties (029)		61 497 677	1.6 1.3	12 723 455	3.0 1.4
b b	acres	220 074	.9	199 231	2.
arms by type of organization: Individual or family (sole proprietorship)	farms	59 955	.1	32 459	.1
Partnership	acres	12 127 077 7 469	.1	10 491 852 5 394	.1 .5 .3 .6
•	acres	2 455 855	.4 .3 .6	2 326 549	.3
Corporation	acres_	2 823 1 523 906	.6	2 495 1 499 471	
Other-cooperative, estate or trust, institutional, etc.		259 64 057	2.3	138 56 041	3.1 1.7
enure of operator:	acres	04 007	1.0	30 041	1.7
Full owners		40 747	.1	16 097	.4
Part owners	acres farms	4 482 976 22 094	.2 .2	3 031 973 18 786	
Tenants	acres	9 733 301 7 665	.1 .4	9 480 216 5 603	.2 .3 .4 .1 .1 .2
TOTALIS	acres	1 954 618	.4	1 861 724	.7
Operators by principal occupation: Farming	<b></b>	00.054		00.040	
	acres	36 654   12 752 675	.1	28 348   12 145 242	.1
Other	farms acres	33 852 3 418 220	.1	12 138 2 228 671	.1 .3 .4
Operators by sex:	20103	0 410 220	.0	2 220 0/1	
Male		67 650	(Z)	39 422	.1
Female	acres farms	15 800 102 2 856	.7	14 116 910 1 064	.1 1.2
verage age of operator	acres	370 793 50.5	1.0	257 003 49,4	1.4 .1
Cropland under federal acreage reduction programs:	years	50.5	• • •	40.4	.1
Annual commodity acreage adjustment programs		30 284	.1	25 518	.1
Conservation reserve program	acres farms	1 613 291 1 642	.1	1 569 561 903	.1 1.1
	acres	79 945	1.1	51 782	1.4
iovernment payments: Amount received in cash	61.000	216 773	.2	210 662	.2
Value of certificates received	\$1,000	223 808	.1	215 436	.1
let cash return from agricultural sales1:					
Net cash return from agricultural sales for the farm unit (see text)	\$1,000	70 506 883 642	.1 .8	40 422 923 513	.á .7
Average per farm		12 533	.9	22 847	1.0
Farms with net gains <sup>2</sup>	number \$1,000	43 008 1 033 188	.2 .5	31 577 1 012 056	.2 .5 .4
Farms with net losses	number	27 498	.2 [	8 845	
	\$1,000	149 546	1.4	88 543	1.8
otal farm production expenses1	farms \$1,000	70 506 3 178 679	.1 .3	40 422 3 026 088	.2 .3
Livestock and poultry purchased	farms	22 203	1.2	15 409	1.2
Feed for livestock and poultry	\$1,000	328 366 35 268	1,0	317 720 22 029	1.0 9.
· · · · · · · · · · · · · · · · · · ·	\$1,000	576 585	.5	565 363	.9 .6
Seeds, bulbs, plants, and trees	farms \$1.000	55 085 155 273	.4	37 397 148 525	.4 .6
Commercial fertilizer	farms	55 026	.5 .5	36 542	.4
	\$1,000	354 501	.6	339 725	

See footnotes at end of table.

Table D. Reliability Estimates of State Totals: 1987-Con.

		All fa	ms	Farms with sales of	f \$10,000 or more
Item		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)
Total farm production expenses—Con.	<b>.</b>	50.000		00.000	
Agricultural chemicals	\$1.000 l	53 232 183 674	.5 .6	36 383 175 855	.4 .6
Petroleum products	\$1,000	66 922 171 786	.2 .5	39 833 159 829	.2
Electricity	\$1,000 \$1,000	52 989 62 563	.5 .6	34 581 57 454	.6 .2 .5 .5
Hired farm labor	farms	25 132	1.1	18 813	1.1
Contract labor	\$1,000	196 231 4 754	.8 2.9	193 364 3 245	.8 3.1
	\$1,000	16 266	2.9	15 284	2.2
Repair and maintenance	\$1,000	57 696 211 790	.4 .5	36 377 193 727	.4 .6
Customwork, machine hire, and rental of machinery and equipment		28 181	1.0	18 497	1.2
Interest	\$1,000	48 656 38 370	1.8 .8	43 717 27 508	1.9
	\$1,000	306 836	.8.	284 405	.8
Cash rent	\$1,000	18 877 216 582	1.2 1.0	16 494 213 806	1.2 1.9 .8 8 1.2 1.0
Property taxes	farms	66 974	.2	38 446	. <u>3</u>
All other farm production expenses	\$1,000	105 135 66 083	.6 .3	87 544 40 406	.3 .7 .2 .5
All Outer laint production expenses	\$1,000	244 435	.5	229 770	.5
Livestock and poultry:	fo	30 340		47.005	
Cattle and calves inventory	number	1 236 480	.2 .2 .2	17 025 1 041 956	.2
Beef cows	number	19 150 315 784	.2   .3	9 189 223 946	.3
Milk cows	farms	5 204 163 867	.3 .4 .4	4 367 161 068	.2 .2 .3 .4 .5 .4
Cattle and calves sold	farms	28 905	.2	16 997	.2
Hogs and pigs inventory	number	881 663 14 834	.2 .3	789 961 11 978	.3
	number l	4 372 294	.2	4 298 213	.2
Hogs and pigs sold	number	15 458 8 024 713	.2 .2 .2 .2	12 544 7 914 959	2332 222 222
Sheep and lambs inventory		3 008	.6	1 529	.9
Sheep and lambs sold	number   farms	82 757 2 906	1.0 .6	49 783 1 486	1.4 .9 1.4 .8
	number	67 279	1.0	42 690	1.4
Hens and pullets of laying age inventory	number	3 632 23 215 449	.6 .1	1 702 23 161 008	.0 .1
Broilers and other meat-type chickens sold		311	2.0	186	2.5
Horses and ponies inventory	number farms number	22 306 685 9 632 52 675	.7 .3 .5	22 283 106 4 016 26 264	2.5 .7 .5 .7
Selected crops harvested:	ildinosi	32 0/3	.5	20 204	.,
Corn for grain or seed	farme	45 383		34 510	1
COLITICAL START OF SECULARIZATION CONTRACTOR	acres	4 884 114	.1	4 710 392	.1
	bushels	619 045 978	.1	602 387 989	.1
Corn for silage or green chop	farms	4 710	.4	4 391	.4
	tons, green	112 812 1 961 381	.5 .6	109 522 1 913 400	.5 .6
Wheat for grain	farms	18 294	.2	15 316	.2
	acres bushels	590 920 30 789 151	.2 .2 .2	555 057 29 250 533	.2 .2 .2
Onto for grain	forms	4 000		4 007	
Oats for grain	acres bushels	4 982 69 063 4 317 321	.4 .6 .6	4 037 59 650 3 859 307	.5 .6 .6
Soybeans for beans	acres	40 068 4 397 253	.1	30 852 4 202 983	.1 .1
	bushels	169 749 051	.1	163 867 007	.1
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, et (see text)		27 050	او	15 526	9
(//y	acres tons, dry	720 914 1 892 446	.2 .2 .3	539 661 1 547 067	.2 .3 .3
Vegetables harvested for sale (see text)		1 203	.9	768	1.1
- Services little to total food total security s	acres	32 934	1.0	31 366	1.0

<sup>&</sup>lt;sup>1</sup>Data are based on a sample of farms. <sup>2</sup>Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains.

Table E. Reliability Estimates of Percent Change in State Totals: 1982 to 1987

		All fa	rms	Farms with sales of \$10,000 or more		
Item		Percent change	Standard error of estimate (percent)	Percent change	Standard error of estimate (percent)	
Farms	number	-8.6	.1	-9.1	.1	
Land in farms		8		6	]	
Value of land and buildings1:  Average per farm	dellara	01.0	.6	-22.6	.7	
Average per tarm	uoliars	-21.6	.0	-22.6	.,	
Total cropland	farms	-8.8	.1	-9.6	. ا	
·	acres	2.0	.1	1.8	.1	
Harvested cropland		-9.3	-:11	-10.1	·1	
	acres	-11.8	.1	-12.0		
Irrigated land	farms	22.8	.9	23.4	.9	
	acres	28.6	.9	28.3		
Market value of agricultural products sold	farms   \$1.000	-8.6 -3.8	.1 .1	-9.1 -3.5	.1	
	\$1,000	73.0	.,1	~0.0	٠٠'	
Crops, including nursery and greenhouse crops	farms	-10.1	.1	-10.8	.1	
	\$1.000 l	-12.8	.1	-12.8	.1	
Livestock, poultry, and their products		-12.7	.1	-12.5	.2	
Poultry and poultry products	\$1,000	8.6 -27.8	.2 .5	9.2 -23.8		
rouldy and podicy products	\$1,000	26.9	.2	27.1	.2 .2 .6 .2	
	. ,					
Selected farm production expenses1:						
Livestock and poultry purchased	farms	-8.9	1.5	-2.8	1.8	
Feed for livestock and poultry	\$1,000 forms	9.3 -17.1	1.7	9.9 -13.0	1.8 1.1	
reed for avestock and poditry	\$1,000	10.4	1.1	11.7	1.1	
Seeds, bulbs, plants, and trees	farms	-8.3	.6	-9.5	.5	
	\$1,000	.6	.8	.5	-8	
Commercial fertilizer <sup>2</sup>	farms	-5.8	.6 .7	-7.2	.6 .7	
Agricultural chamicale?	\$1,000 ferms	-21.9 1.4	.8	-22.5 4.5	 .6	
Agricultural chemicals <sup>2</sup>	\$1,000	5.6	1.0	4.5	1.0	
Hired farm labor	farms	-5.0	1.5	-5.2	1.5	
Interest <sup>3</sup>	\$1,000	29.0 -3.6	1.7 1.1	32.0 -8.2	1.7 1.0	
11161631	\$1,000	-28.0	.8	-29.5	).i	
		]				
Livestock and poultry inventory:		47.0	_	16.5	_	
Cattle and calves	number	-17.8   -14.0	.1	-16.5 -12.2	.2 .2 .2 .2 .6	
Hogs and pigs		-16.0	.2 .2 .2	-13.0	.2	
• • •	number	1.7	.2	2.2	.2	
Hens and pullets of laying age	farms	-33.5	.4 .1	-29.9 27.8	.6 .1	
Selected crops harvested:	number	27.4	•1	27.8		
Corn for grain or seed	farms	-9.8	.1 ]	-9.9	.1	
•	acres	-18.3		-18.5	.1	
Sorghum for grain or seed		15.4	3.1	27.2	3.7 5.8	
Wheat for grain	acres	43.6 -23.0	5.5	46.1 -22.8	5.0	
Whole for grain	acres	-33.8	.2	-33.8	.2	
Soybeans for beans		-5.8   (7)	.1	-6.3 .3	.1 .2	
Hay-alfalfa, other tame, small grain, wild, grass silage, green cho	acres	(Z)	.2	.3	·-	
(see text)	farms	-6.5	.2 .3	-9.5	.2	
	acres	-1.5		-3.2	.3	
Vegetables harvested for sale (see text)		-15.8	.8	-5.2 10.5	1.1 1.2	
Land in orchards	acres	6.8 -13.2	1.1   1.1	10.5 4.8	1.2	
	acres	-4.6	2.0	1.8	2.6	

<sup>&</sup>lt;sup>1</sup>Data are based on a sample of farms. <sup>2</sup>Data for 1987 include cost of custom applications. <sup>3</sup>Data for 1982 do not include imputation for item nonresponse.

Table F. Reliability Estimates of County Totals: 1987

	Farm	ns	Land in	farms	Average valuand buildings	ue of land per farm 1	Estimated ma of all machin equipment	nery and	Harvested	cropland	Irrigated	land
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)	Totai (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Totai (acres)	Relative standare error o estimat (percent
Adams	1 195	.3	205 872	.9	275 479	4.7	53 981	4.4	159 654	.9	106	15.
Allen	1 649 748	.2 .4	291 154 175 883	.6 1.0	287 471 310 505	4.1 3.4	73 055 34 394	4.3 4.7	219 473 120 062	.7 1.2	1 393   1 977	2.: 6.:
Benton	614 3 <b>6</b> 4	.4 .6	271 516 91 040	.7	562 919 196 269	5.1 2.4	44 977 16 126	3.7	212 963 65 273	.6 1.3	(2)	(0
Blackford	822	.4	227 524	1.2 .7	394 892	5.5	41 885	6.6 3.2	175 403	.8	(D) (D)	(D (D (D 29.
Brown	200 770		25 696 230 159	2.2	125 485 402 484	3.3 5.0	3 421 44 202	11.3 3.4	8 012 172 573	2.9 .6	25 334	29. 13.
Cass	920	.3	221 878	.9	286 109	4.0	49 817	4.6	158 667	.9	1 723	13. 7.
ClarkClay	691 646	.4	118 810 162 594	1.2 .9	181 886 245 983	4.4 3.6	20 155 28 266	12.9 7.1	57 603 111 037	1.5 1.0	700   (D)	(I
Clinton	801	.4	247 015 71 615	.9 .7	451 469 110 556	7.7 1.7	56 775 6 032	4.3	195 402 15 693	.8	(D) I	(I (I 3 12 (I 4
Crawford	418 1 257	.4	228 419	1.3	227 815	5.1	52 218	8.6 5.1	143 888	2.6 .9	(D) 583	3
DearbornDecatur	796 816	.3 .4	90 024 209 556	.8 .8	122 813 320 574	5.4 3.8	15 989 40 818	7.4 3.7	29 121 138 784	1.4	162 (D)	12
De Kalb	824	.4	175 153	1.0	196 197	5.6	31 403	5.9	123 657	1.2	675	4
Delaware	834 ( 982	.3 .3 .3	179 317 195 077	.8 .7	246 312 225 274	3.4 10.4	33 721 48 499	3.9 3.4	136 739 98 441	.9 .9	82   143	4 5
!khart	1 556	.3	204 547	.7	207 376	4.7	53 108	4.6	146 542	.7 ]	19 866	1
ayette	514 394	.5 .4	119 238 32 299	1.3 1.5	235 670 177 749	3.7 8.1	20 933 8 265	9.0 16.1	67 597 10 745	1.4 2.7	(D)   56	(i 17
ountain	693	.4	234 599 160 889	1.5 .7 .7	340 364 183 582	5.1 5.1	34 177 33 197	3.5	158 653 76 421	.8	254	24
ranklin	921 773	.3 .4 .3	201 724	.8	246 392	4.3	34 821	5.5 5.5	141 983	1.0 .9	11 449	16 4
Ribson	846 744	.3 .4	248 054 196 132	.6 .8	351 981 351 922	4.6 4.9	47 910   39 584	3.5 3.2	178 420 158 578	.6 .9	(D) (D)	I) I)
ireene	987	.3	202 544	.9 (	179 585	3.9	25 544	5.6	103 559	1.2	103	14
lamilton	772 698	.4 .4	172 157 167 113	1.0 -9	383 850 345 925	5.0 3.3	35 170 34 432	5.2 6.9	130 975 133 327	1.1	86   61	3 6
larrison	1 297	.3	184 573	.8	133 588	5.1	36 993	4.4	73 947	1.1	54	8
endricks	926 938	.4 .3	181 806 186 172	.9 .9	280 394 199 643	4.0 4.2	32 647 36 337	4.2 5.6	132 640 136 127	1.0 1.0	63   (D)	29
oward	677	.4	153 607	1.0	367 437 293 945	4.7	33 140 39 337	4.3	119 901 145 851	1.0 .8	22 56	28 28
untingtonackson	818 963	.4 .3 .3	194 605 216 454	.7 .9	242 178	4.4 4.4	44 285	4.3 4.4	128 046	1.0	437	4 24
asper ay	780   922	433553235333	306 098 188 637	.6 .8	400 796 211 899	4.3 5.6	48 865 38 688	3.5 5.2	222 509 130 597	.6 .9	9 138	3
efferson	962	.3	137 233	1.0	112 435	5.5	27 344	7.0	56 711	1.3	218	.2
ennings	671 650	.5	131 481 139 792	1.2 1.1	168 653 306 527	4.1 5.4	22 015 33 809	6.1 8.3	68 210 102 011	1.5 1.2	(D)	16 (I
(nox	833	.3	309 372	.6	354 891	4.4	51 360	3.6	222 449	.7	5 237	(I 2
osciusko agrange	1 327 1 437	.2	268 334 191 358	.6 .6	239 496 169 372	4.6 4.2	63 224 43 975	3.5 4.4	176 926 110 726	.7 .7	9 381 18 561	2
ake	551 914	.5	145 566 258 506	1.0 .7	346 299	4.2	27 265 50 041	6.6	108 284 185 603	1.0 .8	5 524 15 607	3
a Porte	865	.3	172 226	.8	310 716 130 457	5.2 2.9	18 534	3.9 6.0	58 223	1.2	52	21
fadison	956 3 <b>6</b> 1	.3 .6	225 979 56 772	.7 1.6	359 639 324 125	4.4 4.8	50 058 11 227	6.8 6.3	174 298 40 992	.8 1.9	1 208 1 065	3
larshall	1 090	.3	222 394	.9	209 771	6.4	44 100	5.4	152 894	.9	4 086	3
lartinliami	361 818	.4	67 373 196 019	1.0	135 967 255 768	5.0 5.3	10 384 35 776	9.1 3.3	24 308 144 500	1.2	(D) 2 026	11
fonroe	583	.4	73 054	1.6	165 304	9.6	12 908	12.0	24 708	1.8	48	23
Montgomery	942 713	.3 .4	288 755 145 490	.6 1.0	359 191 228 136	4.5 3.6	58 583 26 532	2.9 5.6	205 584 90 594	.5 1.1	22 28	16 16
ewton	480 1 057	.4	227 126 197 875	.6	553 565	3.8	40 901 34 637	5.4	164 672 124 520	.6 1,0	9 874 2 171	3
oble	283	.3 .8	37 230	.9 2.4	162 412 116 558	4.6 2.6	5 389	5.1 18.4	9 760	3.1	10	22
range	566 665	.4 .5	112 057 115 428	1.0 1.4	167 516 158 613	4.6 3.7	15 548 16 442	6.8 7.6	42 141 48 575	1.3 2.1	(D) (	14
'arke	587	.5	192 238	.9	275 709	3.2	26 502	6.1	108 213	.9	319	1
erryikei	526 382	.4 .5	92 209 98 958	1.4 1.4	122 465 246 252	5.0 4.8	12 874 16 819	14.8 9.8	29 825 59 978	2.2 1.6	10   61	23 17
orter	597	.4	162 544	.9	348 034	5.8	26 940	3.1	122 036	1.6 .9 .7	3 618	- 3
oseyiuaski	551 718	.4	217 084 243 476	.6 .8	446 359 325 072	5.2 6.1	41 664 41 124	5.6 5.0	154 790 175 066		(D) 7 932	}
utnam	891 1 074	.4 .4 .3 .3 .3	210 905 244 226	.9 .8	256 816 232 372	5.5 5.8	31 991 52 613	4.3 5.8	116 676 182 240	1.1	105 (D)	20
ipley	1 071	.3	173 795	.9 .7	154 112	7.2	33 582	5.8	96 170	1.2	(D) (	(
t. Joseph	834 897	.3	239 641 174 226	.7 .9	351 141 257 056	4.9 7.6	48 123 43 325	4.2 6.7	171 791 126 049	.7 .9	(D)   10 632	2
cott	390	.4	63 520	1.2	157 662	6.0	11 807	8.6	31 876	1.3	(D)	17 2 () 20 () () () 4 ()
helby pencer	876 808	.4	217 961 178 720	.8 1.0	305 910 213 226	5.7 5.3	44 776 37 156	6.2 6.7	168 241 102 328	.9 1.3	1 242 205	21
tarke	449	.4 .6 .5	140 869 132 099	1_1	274 412	3.9	20 666 22 113	6.5	93 003 75 117	1.1	8 650 1 819	2
teuben	573 599	.5 .5	188 948	1.2	183 421 297 184	4.8 5.4	37 090	6.8 7.0	130 615	1.4 1.0	1 976	21 2 3 2 8
witzerland	660 881	.4 .3	86 245 247 010	1.0 .7	106 976 393 976	6.0 4.0	14 190 49 488	11.1 5.3	21 285 176 258	1,4 .8	65 1 070	8
ippecanoe	551	.4	161 040	.6	483 426	3.8	41 881	4.9	129 004	.6	177	22
Inion	300 378	.4 .6 .5	87 958 85 852	1.1 1.2	471 767 396 690	11.4 7.6	19 144 24 120	7.5 14.2	56 104 65 911	1.2 1.2	(D)	
anderburgh	393	.5 .5	127 753	.9	337 959	4.0	25 945	9.9	87 069	.9	(D)	
/igo Vabash	623 865	.4	147 757 202 566	1.0 .7	240 415 254 541	3.4 6.3	27 732 43 473	5.6 5.2	102 189 147 531	1,1 .7	57 1 524	1
Varren	486	.5	204 827	.7	485 562	6.5	32 117	5.1	141 311	.8		
Varrick	432 1 034	.4 .3 .5 .5 .3	99 944 195 118	1.1	274 870 155 102	6.4 5.5	18 934 29 784	8.9 4.3	64 228 82 246	1.4 1.1	142	7 14
Vayne	888	.4	196 898	.9	218 476	4.5	42 231 48 204	5.5	122 936 164 116	.9 .7	60	10
Vells	875 786	.3 .4	209 261 292 938	.6 .6	325 539 461 948	5.2 4.2	48 204 54 768	4.1 3.3 6.5	214 753	./ .6	2 326	3

See footnotes at end of table.

Table F. Reliability Estimates of County Totals: 1987—Con.

	Cattle and invent		Hogs and pigs	s inventory	Corn for grain	n or seed	Wheat for	r grain	Soybeans fo	or beans	Market value of agricultural products sold		
Geographic area	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)	Total (acres)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent	
Adams	18 118	1.3	91 989	1.2	50 786	1.0	16 147	1.6	77 877	1.1	74 175	.5	
AllenBartholomew	20 383 10 657	1.2 1.6	82 992 37 859	2.3 1.8	65 295 65 687	.7 1.5	28 200 8 125	1.0 2.1	108 892 41 210	.9 1.2	74 484 37 144	.6 .8	
Benton	5 020	2.4	22 388	1.3	95 410	.7	2 428	3.1	111 734	.7	56 085	.6	
Blackford	2 707 10 074	4.2 2.4	22 875 69 944	2.1 1.3	24 553 82 012	1.2	5 067 3 561	2.5 3.5	33 874 85 866	1.8 1.0	20 595 59 441	1.1 .6	
Brown	2 481 9 017	2.9	1 154 204 237	13.6 .7	3 467 97 709	3.9 .6	113 6 315	29.5 2.0	1 016 64 110	4.7 .8	1 856 92 306	2.7	
Carroll	13 081	1.4 1.4	90 867	1.5	80 551	.9	6 582	1.9	63 562	1.3	59 641	.: .6	
Clark	13 864 7 054	1.7 1.9	6 217 24 794	4.4 3.8	20 854   53 648	2.5 1.1	4 683 5 753	3.1 1.9	21 321 48 110	2.0 1.1	16 065 29 417	1.3	
Olinton	6 263	2.1	193 591	.6	99 426	.8	5 323	2.6	88 602	.9	82 297	2.	
Daviess	8 907 25 069	2.2 1.2	2 119 129 864	8.6 1.5	4 081 81 504	5.2	474 10 016	11.2 2.4	1 763 41 097	8.6 1.7	4 503 92 105	2.	
Dearborn	11 895	1.7	5 702	4.7	8 394	2.1	1 244	2.7	6 229	2.9	8 693	1.	
Decatur	22 287 14 876	1.2 1.7	134 736 27 596	1.2 2.7	85 099 37 738	.9 1.3	7 303 15 038	2.1 1.9	38 699 58 394	1.3 1.5	69 640 35 459		
Delaware	7 606	2.1	33 270	2.1	52 105 56 580	1.1	6 795 8 015	1.8	71 458 18 495	1.0	39 452 122 576		
Oubois	29 147 44 210	1.0 1.1	123 705 60 226	1.0 2.3	65 860	1.0	6 952	1.4 1.9	39 600	1.4 1.1	86 172		
ayette	10 810	2.6	60 570	2.7	36 460	1.4	4 858	2.7	21 167	2.0	26 558	1.	
loyd	5 076 13 652	2.5 1.5	1 202 21 773	12.1 1.6	2 779 69 750	5.4	936 4 711	3.4 2.2	1 257 78 564	10.0 .9	5 922 43 307	3	
ranklin	18 512	1.5	76 772	1.3	40 696	1.1	4 499	1.9	19 356	1.8	33 735		
ulton	14 181 9 441	1.7 1.9	55 988 42 504	1.7 1.6	68 029 90 718	1.0	6 551 18 217	1.7 1.0	55 062 69 196	1.1 .9	45 784 54 942	•	
irant	7 395	2.1	54 739	1.6	54 975	1.0	6 311	2.0	92 478	1.0	51 871	;	
ireene	23 126 7 312	1.7 2.9	21 414 43 316	3.2 1.5	45 629 53 997	1.4 1.0	3 494 4 650	2.7 2.1	36 552 68 545	1.9 1.3	32 763 47 479	-1	
lancock	5 883	3.1	41 643	1.4	56 186	1.0	3 128	2.5	70 715	1.0	40 306		
larrisonlendricks	27 563 11 416	1.5 2.8	23 496 32 915	5.0 1.8	24 036 55 997	1.5 1.2	9 825   4 192	1.7 2.4	15 734 66 351	2.0 1.1	51 388 40 708	-	
enry	17 031	1.4	46 601	1.9	57 456	1.0	4 192	3.0	67 351	1.2	45 569	•	
owarduntington	8 752 9 410	1.6 1.5	80 254 62 155	1.4 1.7	50 874 47 806	1.0 .9	2 414 11 265	3.2 1.9	63 298 78 131	1.2 .8	47 705 49 685		
ackson	24 795	1.7	49 312	2.5	66 311	1.1	7 760	1.8	42 366	1.7	66 820	). ).	
asper	11 129 13 070	1.1 2.1	90 907 41 993	1.4 2.3	121 192   42 575	.6 1.0	2 391 11 810	2.8 1.7	90 595 65 121	.7 1.1	86 116 55 866		
efferson	13 168	1.7	7 519	4.0	22 448	1.6	2 558	2.6	20 013	2.5	18 357	1.1	
ennings	9 682 9 651	2.7 2.1	18 971 19 360	4.1 3.3	33 661 50 211	1.7 1.2	2 224 5 905	3.3 2.6	26 468 41 306	1.9 1.7	28 857 31 821	.8 .8 .3 .3 .8 .8 .8	
ohnson	15 040	1.6	55 759	1.3	100 588	.8	32 603	.9	84 336	.9	66 039	ij	
osciuskoagrange	35 567 42 501	1.0 1.1	109 582 92 035	1.0 1.2	86 743   53 842	.8 .8	10 707 6 644	1.3 1.6	60 340 19 976	.9 1.6	115 932   81 433		
ake	6 096	3.9	9 871	4.8	50 363	1.3	3 854	2.4	45 728	1.2	32 553		
a Porteawrence	22 219 26 291	1.3 1.2	32 920 13 244	3.0 3.1	94 986 22 749	.8 1.6	5 318 3 104	2.1 3.5	68 425 12 080	1.2 2.4	65 355 15 696	1	
ladison	10 967	1.5	40 626	1.5	75 579	.8	6 188	2.3	88 585	.9	57 622		
Marion	3 562 22 302	3.2 2.6	4 870   30 336	6.1 2.8	16 797 73 328	1.8 1.0	1 134 7 013	4.0 2.1	20 322 53 707	2.5 1.4	22 047 51 382		
farshall	8 975	1.5	34 966	.9	12 667	1.5	1 281	1.9	4 560	3.1	23 499		
Miami	20 657 11 607	1.4 3.4	108 971 3 972	.8 5.6	63 708 7 303	1.1 3.2	7 291 730	1.6 4.0	62 509 5 338	1.0 3.8	62 590 7 366	1.1	
Monroe	15 595	1.6	121 051	.8	102 305	.5	5 178	1.8	89 059	.7	83 378		
forgan	11 502 9 356	2.0 2.5	15 349 24 078	3.2 2.1	43 858 90 247	1.3 .6	4 037 2 116	3.3   3.9	36 176 67 613	1.4 .8	26 282 59 193		
lewton	19 837	1.9	45 463	2.6	55 472	1.2	8 425	2.2	41 713	1.5	46 352		
Ohio Orange	4 844   14 853	3.6 2.0	1 874 28 354	6.1 2.9	2 128 22 645	7.4 2.0	269 2 070	8.0 2.9	871 5 692	8.6 2.6	2 695 17 179	3. 1.	
wen	11 898	1.9	11 641	3.6	20 355	2.8	2 801	4.8	15 966	3.1	12 481	1.	
erry	8 889   11 636	1.8	35 318   17 617	2.5 4.3	55 919 9 989	1.0 3.7	5 219 1 787	1.9 4.1	41 269 6 584	1.2 4.1	30 339 8 795	1.	
!KO	5 584	1.5 4.8	15 481	3.5	32 467	1.8	3 813	3.0	21 086	2.2	18 578	1.	
orter	5 377 6 524	2.4 3.5 2.5	20 027 26 556	2.7 3.0	56 772 69 081	1.0	5 684 25 640	2.0 .9	53 708 66 376	1.1 .9	33 273 41 201		
ulaski	8 437	2.5	62 742	1.2	89 676	.8	3 241	3.3	73 419	1.1	67 481		
utnam	16 937 12 699	1.4 1.6	60 736 70 723	2.1 1.3	55 408 64 202	1.1	6 027 13 882	3.0 1.3	43 996 97 181	1.6 1.0	38 317 54 844		
lipley	17 060	1.7	34 490	1.8	46 984	1.5	3 622	2.2	35 313	1.5	30 680	:	
ush	17 284 10 192	1.3 1.9	118 424 34 207	1.0 2.9	91 720 62 399	.8	7 149 5 999	1.6 1.9	66 758 43 400	.9 1.1	66 542 47 350		
cott	5 255	2.2	5 769	2.4	16 763	1.1 2.1	1 151	5.3	11 837	1.7	8 733	1.	
helby	11 720	1.9 1.6	39 507 42 703	2.8 2.2	83 670 43 023	1.0	7 111	2.2 2.2	70 594 40 292	1.0	49 819 34 588		
tarke	17 974 4 680	2.3	10 008	3.8	56 369	1.6 1.2	7 115 843	4.3	25 966	1.8 2.0	25 312	ار ر ر	
teuben	11 844	2.4 3.1	20 357 17 237	2.8	35 708 56 349	1.7	6 483 13 078	2.8 2.0	18 980	1.8	23 011 32 145	1.	
witzerland	6 056 11 122	3.1 1.7	7 706	4.6 1.1	5 247	1.1 2.9	843	3.7	59 393 3 103	1.3 3.5	10 195	1.	
ippecanoe	13 246	1.5	76 886	1.1	83 506	.9	6 988 2 360	2.4 1.8	75 294	.9	60 306 51 162		
nion	3 699 6 862	2.0 2.1	49 913 47 064	.9 1.6	60 426 33 719	.6 1.5	3 087	2.1	63 192 16 489	.8 1.5	22 508	اء	
orter oosey ulaski utnam andolph ipley tush t. Joseph cott helby pencer tarke teuben ullivan witzerland ippecanoe ippton inion anderburgh ermillion	2 862	3.1	4 041	4.2	32 789	1.1	5 491	2.6	28 299	1.6	17 993	1.	
ermillion	5 675 4 827	2.5 3.5	15 134 15 390	1.4 2.2	41 820 42 355	1.0	3 199 7 428	2.0 2.7	38 535 48 022	1.1 1.3	23 138 23 724	1.	
/abash	38 615	3.5 .7	135 358	.9	60 946	.8	11 038	1.4	65 068	.9	99 745	:	
/arren/	7 556 5 854	2.4 2.5	8 664 13 397	3.4 5.7	59 733 28 551	.8 1.5	5 338 3 522	2.3 2.6	71 341 27 581	.9 1.9	36 876 16 135	1.	
/ashington	30 435	1.7	38 278	1.7	38 001	1.4	6 141	2.1	16 351	2.1	38 861	•••	
anderburgh 'emrillion 'igo Vabash Varren Varrick Varrick Vashington Vayine Veilis Vhitte Vhittey	24 946 12 166	1.7	62 716 56 644	2.0 2.1	58 067 55 222	1.0	6 490 13 017	1.9 1.4	46 257 89 156	1.2 .8	57 418 54 721	1.	
Vhite	9 555	1.2 1.7	117 585	.9	99 409	.6	4 582	2.0	90 025	.7	89 594		
//hitlan	13 472	1.4		1.8	39 616	1.1	12 764	1.7	47 857	1.3			

See footnotes at end of table.

Table F. Reliability Estimates of County Totals: 1987—Con.

Geographic area	Livestock a purch	ased	Commerci	al fertilizer	Hired fa	rm labor	Petroleum	products	Electricity for th	e farm busines
Georgi aprilio alea	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)	Totai (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relatir standard err of estima (percer
ams	8 582	7.4	4 741	3.4	2 925	4.8	2 374	3.0	1 040	3
en	10 047	8.3	6 146	3.2	2 999	2.6	3 239	2.9	1 036	3
rtholomew	2 250 1 250	10.3	4 212	4.2 2.8	1 358 1 599	5.0	1 793 2 744	3.9	621	4
nton	1 250 952	14.2 9.8	5 706 1 960	5.9	663	3.9 1.6	860	3.0 6.3	624 279	4
one	2 626	6.0	5 856	6.2	2 631	2.5	2 440	3.2	749	' 3
own	113	35.5	154	17.7	67	41.1	132	13.7	61	18
rroll	10 931	3.6	6 399	3.5	4 136	1.8	2 483	1.9	948	3
ss	4 381	9.0	5 731	4.2	2 432	10.0	2 776	3.0	779	5
ark	905 1 813	24.9 20.4	1 795 3 559	8.0 7.1	1 585 1 016	9.2 2.6	869 1 644	6.9 8.1	336 446	13
nton	5 448	5.9	5 924	3.0	3 942	1.7	3 262	3.2	984	
awford	223	17.5	442	16.2	171	5.4	260	13.1	94	13
viess	10 913	5.4	6 394	3.5	3 169	4.2	2 702	3.4	1 052	
arborn	783	43.3	844 5 992	19.9	772 : 3 324	45.3	588 2 310	12.9	278 943	17
catur	8 437 2 811	4.4 2.7	3 562	3.3 5.8	2 060	3.7 16.9	1 745	2.6 4.6	660	
laware	1 100	10.5	4 035	3.2	1 810	10.2	2 009	3.4	580	ì
bois	15 670	1.8	5 153	3.9	4 710	2.7	2 919	2.8	2 148	
nart	8 394	5.9	5 429	3.6	2 589	7.8	3 115	4.2	1 923	
ette	1 686 878	5.8 58.4	2 716 327	9.1 27.1	837 864	9.5 16.6	966   634	5.8 11.6	385 108	1
/dntain	3 103	58.4 2.6	4 782	3.8	1 330	16.6 5.5	2 082	11.6 3.7	474	1
iklin	3 306	7.6	3 101	5.4	817	7.9	1 482	5.0	727	
On	3 317	15.0	3 995	4.2	1 679	13.1	2 108	4.7	764	
on	5 639	9.5	7 148	2.8	2 709	3.1	2 497	3.1	746	
nt	3 692 2 390	2.0 7.7	4 931 3 455	4.6 6.8	1 679 1 408	3.6 5.5	2 232 1 683	2.6 5.6	576 530	
ene	2 390 2 782	9.8	3 455	4.0	1 408 3 649	7.9	2 219	3.6	584	
cock	1 534	13.0	3 781	4.8	1 623	10.9	1 625	5.5	478	
ison	3 436	5.1	2 440	6.6	1 980	6.4	1 601	3.9	760	
iricks	2 088	13.1	3 939	4.1	2 600	5.6	1 747	4.2	528	
y	4 186	5.0	4 571	4.7	1 472	5.3	2 123   1 940	3.3	652 562	
ard	3 634 4 495	3.4 4.9	4 921 3 841	13.9 3.5	1 537 1 938	2.7 4.4	2 062	3.6 4.9	638	
ington	7 243	7.7	3 879	5.6	4 938	3.5	2 019	4.3	1 650	
er	7 818	3.2	7 451	2.4	3 530	1.1	3 410	3.5	1 130	
	5 900	6.7	3 494	4.7	2 792	15.1	2 184	4.2	889	
rson	891	17.9	1 648	6.9	1 118	6.4	977	6.6	326 747	
ings	1 624 2 528	23.1 21.3	2 199 3 074	7.9 3.9	1 965 1 514	3.3 8.1	1 122 1 452	10.0 <b>4.</b> 7	438	
son	4 608	7.5	8 209	3.4	3 664	2.8	3 434	6.2	706	
iusko	14 795	3.4	5 754	5.7	6 838	.9	3 334	3.0	1 938	
ange	11 524	5.3	3 483	3.7	5 633	1.6	2 571	3.9	1 711	
	1 058	8.5	3 306	6.6	2 406	7.5	1 617	4.3	632	
orte	4 381 1 544	6.2 20.3	5 530 1 900	3.5 7.5	3 872 902	3.4 13.1	3 051 977	2.9 5.8	1 266 344	1
son	2 954	8.5	5 535	5.8	2 714	4.1	2 531	3.7	663	,
on	750	9.1	1 003	4.2	2 380	4.8	735	5.0	244	
hall	2 429	8.8	5 168	4.5	2 057	8.1	2 569	3.8	1 053	
n	2 959	6.0	1 020 5 003	8.1	741	2.4	517 2 290	5.6	327 828	
ni	7 114 818	5.4 18.1	5 003 621	4.0 14.7	2 277 544	1.1 35.7	2 290 519	2.2 12.8	183	1
gomery	6 309	3.4	7 142	2.7	2 363	2.8	3 344	2.4	1 067	
ian	2 426	13.4	2 714	4.6	1 690	2.2	1 340	3.7	449	
on	1 802	5.5	5 623	3.1	3 720	1.0	2 098	2.3	1 042	
Ð	3 871 466	5.3 84.3	3 193 306	6.5 15.1	2 167 219	5.4 37.1	2 044 221	6.1 27.3	911 78	
ge	1 384	7.1	1 795	8.3	853	9.7	850	27.3 8.1	346	
ñ	999	9.8	1 520	9.7	564	12.5	873	10.1	275	
θ	2 064	5.8	3 372	5.8	1 548	7.0	2 142	9.8	541	
/	1 077 1 103	9.1	1 055 2 599	14.5 7.9	294 928	19.3	597	9.9 5.2	253 249	•
or	1 103	3.8 30.3	3 954	4.5	1 126	7.3 7.6	953 1 754	5.2 3.6	542	
y	1 897	27.3	5 638	3.6	2 069	9.3	2 085 1	3.0	521	
ski	3 127	4.8	5 600	2.9 5.7	3 808	2.5	2 488 1 830	2.9	1 220	
am i	2 491	6.7	4 077	5.7	1 402	6.3	1 830	3.3 3.5	511	
dolph	3 226	7.8	5 646	4.0	2 175	6.0	2 671	3.5	793 606	
y	2 686 5 455	20.7 6.5	3 432 6 504	4.7 2.6	1 286 2 512	14.7 4.3	1 631 2 462	6.4 2.6	984	
	2 890	3.5	4 206	4.1	3 650	20.2	2 150	3.2	915	
Dy Cer e	360	35.0	1 029	13.6	357	9.8	483	13.1	152	
ру	2 943	15.7	5 396	4.1	2 215	12.3	2 242	4.1	735	
cer	2 577	11.4	3 675	4.2	1 726	7.8	1 806	4.8	578	
ie	1 017	5.3	3 505 2 200	6.3 5.9	1 738 1 237	18.3 23.1	1 612 1 260	5.1 7.0	450 572	
van	1 470 1 047	13.4 9.5	2 200 5 146	5.9 7.2	1 237	23.1 3.1	1 925	4.1	372	1
/anzerland	270	26.8	596	11.0	516	8.4	533	9.0	276	
ecanoe	2 963	3.5	5 652	3.6	3 904	3.7	3 004	3.1	770	
n	2 961	3.5	4 506	4.0	2 739	3.0	2 071	4.5	506	
ecanoen	1 834	2.4	2 148	8.3	583	9.1	1 039	10.3	349	1
erourgh	1 100	61.9	2 472	17.1	1 255 1 021	9.1	1 103	10.5 6.3	251 289	
nillion	1 447 835	2.3 8.8	2 341 2 657	6.2 4.7	1 558	1.9 9.1	1 263 1 331	6.2	289	
ash	15 209	4.3	4 510	3.4	6 313	.9	2 788	3.0	1 614	
en	15 209 608	9.6	4 151	2.7	2 057	5.6	1 940	3.0	441	
ink	687	14.9	2 283	7.9	651	7.0	1 025	10.9	240	
hington	4 210	9.9	3 499	8.2	1 494	7.5	1 606	6.4	617	
16	5 673	9.0	4 285	3.1	5 061	8.1	3 155	2.8	831 664	
s	3 184 4 574	11.3 7.9	4 956 7 505	4.2 2.7	1 479 4 835	1.1 4.2	2 445 3 330	4.7 2.2 5.7	1 433	

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

# Table G. State Coverage Evaluation Estimates of Farms Not on the Mail List: 1987

[Data are based on a sample of farms; see text. For meaning of abbreviations and symbols, see introductory text]

	Not on	mail list	Percent not on mail list			
ltem	Total number	Relative standard error of estimate (percent)	Total percent	Standard error of percent		
Farmsnumber_ Land in farmsacres_	4 164 191 004	10.1 40.0	5.6 1.2	.6 .5		
Farms by size: Less than 50 acres	3 240 924	12.5 10.5	13.7 1.8	1.7		
Harvested croplandfarmsacres	1 697 80 208	29.9 70.0	2.7 .7	.8 .5		
Farms by value of sales:  Less than \$2,500	2 973 1 191 (S) (S)	13.6 8.6 (S) (S)	19.3 2.0 (S) (S)	2.6 .2 (S)		
Market value of agricultural products sold\$1,000	21 957	68.7	.5	.4		
Farms by standard industrial classification:  Crops (01)	1 536 2 628	2.8 16.0	3.5 8.4	.1 1.3		
Farms by tenure of operator: Full owners	3 649 515	11.5 2.7	8.2 1.7	.9 (Z)		
Operators by principal occupation: Farming	1 084 3 081	11.9 12.5	2.9 8.3	.3 1.0		
Average age of operatoryears_	44.1	(Z)	(X)	(X)		

Note 1: Farms classified as nonfarms, nonfarms classified as farms, and farms appearing more than once in the census are not accounted for in these estimates, but will be provided in the 1987 Coverage Evaluation publication. See appendix C for futher explanation.

Note 2: Detail may not add to total due to rounding.

# APPENDIX D. Report Form and Information Sheet

	E BY FEBRUARY 1, 1988								O	AB No. 0607-053	14: Approval Expires	s Septemb	per 30, 1989		
FOF (8-2	M 87-A0202		U.S. DEP	BUREAU OF T	MMERCE HE CENSUS	NOTICE R	esponse to this inqu BUREAU IS CONFI tical purposes. Your	iry is required by la DENTIAL. It may be report CANNOT b	w (title 13, U.S e seen only by e used for purpo	. Code). By ti swom Censu ses of taxati	he same law Y0 us employees a on, investigatio	OUR RE	PORT TO be used		
	AG CENSUS USA		CE	O STATE NSUS ICULTUI		The law also p	rovides that copies dence pertaining t	retained in your file	es are immune f	rom legal pro r Census Fil	cess. e Number (CF				
300	case complete this			CENSUS		- F	87-A0202								
10	rm and RETURN TO	1201 E	et Tenth												
S	lote — If your records are n sed. If you cannot file by Fe ent to the above address lumber (CFN) as shown in y s.	bruary 1, a Include 1	i time ext vour 12-	ension request character Ceri	may be sus File										
re C ar yo	you received more than one port form, enter extra ensus File Number(s) here of return extra copies with our completed report.	<del>†        </del>	- 037	036											
Lυ	ENSUS SE 039 040		041	042		Please co	rrect errors in name	, address, and ZIP	Code. ENTER s	treet and nun	nber if not sho	wn.			
ខ្លីទី	s1 organization f REGARDLESS pastureland, r	ipouse, or or which y S OF LOCA	by the pa ou are re TION OF	artnership, co porting. Inclu RUSE — cropi	rporatio de ALL land,	ised n, or LAND,	INSTRUCTION Use section 7 to	VS — Please rep to report ONLY DO NOT INCLU Were any of the f	ort your crop those CROPS DE crops gro	s in the ap NOT liste wn on lan	propriate se d in sections d rented to o	ction. 2 throthers.	ough 6		
	If the acres you operated in refer to the INFORMATION	1987 cha	nged dur	ing the year,			52 52	in 1987?	Acres	<del></del>	harvested	A	cres		
	All land owned					Number of acres	1. Com (field) f	uantity on a	harvested 087	Oes		irri 069	gated		
2.	All land rented or leased FRO	M OTHERS	, including	land worked			dry shelled-wei 2. Com (field) f	or silage	070	071	Bu. Tons.	072			
	by you on shares, used rent if payment of taxes, etc. Include the control of taxes, etc.	le leased Fe	ederal, Sta	te, and railroad		144	or green cho		088	089	green Bu.	090			
	land. (DO NOT include land u grazing permit.) Also comple					48	4. Beans, dry 6		554	555	Cwt.	556			
3.	All land rented or leased TO shares by others and land su	OTHERS, in	cluding la	nd worked on	_ [		5. Wheat for g		073	074	Bu.	075			
	•					046	6. Oats for grai	in	076	077	Bu.	078			
	Acres in "THIS PLACE and acres rented (item 2), TO OTHERS (item 3), and	then SUB	TRACT a	cres rented	_, l		7. Barley for gr	ain	078 686	687	Bu.	588			
	For this census report thes						8. Rye for grain		082	(083	Bu.	084			
	If the entry is zero please re	efer to the l	NFORMA	TION SHEET,	section		9. Sorghum for or seed (incl		."	{  <del>-</del>	OR — <u>Bu.</u> — Cwt.	}			
5.	If you rented land FROM OTHE Name of landlord			following inform (Include ZIP C		each landlord. Number of acres	10. Sorghum for a	silage or	085	086		087			
			<u> </u>			·	sorghum-sudan		662	663	Tons, green Lbs.,	664			
				-			11. Popcom	_	094	095	shelled	096	Ţ		
	List additional landfords on a sep	erate sheat o	f caper				12. Tobacco — :		097 /10	000	Lbs. Cwt.	099	/10		
6.	If you rented land TO OTHER			following inform	nation fo	r each renter.		Was any DRY HA	<b>t</b> .			EN CH			
	Name of renter	Mailir	ng address	(Include ZIP C	ode) 1	Number of acres		_Include sorghun -	n-eudan croesi	s and hay c	ut from pastu	r <del>es</del> .			
		+						YES — Comple re made for both dry				ction 4			
							from the same	fields, report the ad under GRASS SILAC	reage in the app	opriate items	under DRY				
	a. Of the land you rented or a scress did you own?	eased to ot	hers, how		053	Acres	hay were mad	(If two or more cu de from the same a ce, but report total	cres, report	Acres harvested	Quantity harvester (Report either or green weigl indicated)	d dry	Acres irrigated		
7.	Did you have any grazing perm	its on a per-	head basis				a. Alfalfa an	d alfalfa mixtures		103	104 T	ons,	05		
	1 Yes — Mark (X) all box	es which a	pply		Grazing	Sec. 3 (BLM)	<b>b.</b> Small grai	hydrating in hay — oats, wh	eat,	106	107 T	ons,	08		
	2 No – Go to item 8		(	s Indian a Other		ify)	c. Other tam timothy, t	e, etc ne dry hay – clove promegrass, Suda	er, lespedeza, ngrass,	109	110	ons,	11		
8.	LOCATION OF AGRICULTUR	RAL ACTIVI	TY FOR "	THIS PLACE"		<del></del>		h		112	113	lry _	14		
	a. In what county was the largest value of your			inty name	State	Number of acres						ry			
	agricultural products raised or produced?	Principal county_			ſ	56	GREEN CH were made fr	AGE, HAYLAGE OP (If two or mon om the same acres	e cuttings s, report	115	118		17		
	<b>b.</b> If you also had agricultural operations in any other	Other				958	all cuttings.) 3. HAY SOLI	D — Did you se	il any hay	118		ons, reen			
	county(ies), enter the county name(s), etc	counties			1	059	or grass sil of hay sold in	age in 1987? (R section 9, item 4)	eport value	1 🔲 Yes	2 🗌 N	0			

SALE from "THIS PLACE" in 1987? (Do not include those grown for home use.)							≋ SEC	TION	68 We "T	re any S HIS PLA	TRAY CE" ii	VBERRIE n 1987?	8 or OT (Do not	HER BER include t	RIES har hose gro	rveste wn fo	d FOR SALI r home use.	E from	
1 2		— Comp — Go to:						1 YES — Complete this section 2 NO — Go to section 7											
				Acres		Acres	irrigated	-		- •			00.00						
1 Land from which w	antobl			Whole acres	Tenths		res Tenths		Сгор г	name	Code		res harv		Quantit	y harves	bet	Acres irri	
1. Land from which ve harvested in 1987	yetabi	es were		375	/10	376	/10				-	Who	le acres	Tenths	537		1	Whole acres	Tenths
2. From the list below If more than one ve	getable	a crop was h	arvest	ed from the sa	me acres			Stra	wberr	ies	536			/10	510		Lbs.	511	/10
each crop. Report of			Code	Acres harv		Acres	irrigated	Blac	kberri	es	509	<u> </u>		/10			Lbs.		/10
Sweet com			461	Acres nor	/10	462	/10	Rive	horrio	s, tame	512	1		/10	613		Lbs.	514	/10
Tomatoes			463		/10	484	/10		DS1116.	3, Lui 110	0.2			. ,,,,	534			636	!
					/10	,	1 /10	Ras	pberrie		533	-		/10	540		Lbs.	541	/10
					/10		/10		er berr	ies —	539								1
					/10		/10	<u> </u>			<u> </u>	<u> </u>		/10			Lbs.		/10
If more space is needed, u				<u> </u>	/10	<u> </u>	/10		ne spac TION	e is needed			برسيون		ad from '	THIS DI	ACE'	' in 1987 —	
Crop name Asparagus Beans, snap (bush and pol Beets Broccoli Cabbage, head Cantaloups and muskmelons Carrots	Cod 375 e) 385 381 39	le Crop na g Eggplant Honeyde Kale Lettuce Lims bet Onions, Onions,	and ro	Code415 fons423425 maine429 s431433	Pepp Pum Radis Spins Squa	pkins shes ach sh ips	Code 445 451 457 465 465 465	For 1	those o	8m 100 1 [ 2 [	ell grain t previou YES NO	s, field siy re; — —	d seeds, ported? ( Compli Go to se	sugar be (Report : extention 8	eets, sunf <i>fruit in se</i>	Rowers, rection 8.)	mint,	or other cro	ps
Cauliflower	399	91. Okra		437	. Othe	r vegetables	s — 475		Cro	o name	C	Code	Acres h	ervested	Quant	ity harve	sted	Acres in	rigated
Cucumbers and pickles	40	7   Peas, gr 1   Peppers	een	t 441	i			Sug	ar bee	ts for sug	ar	719			720		Ton	721	
SECTION 58 Were	\$10	1							lfa sec			542			543		Lbs.	544	
bulbs	, flowe	rs, flower se	eds, v	NHOUSE CRO egetable seed	s and pla	ints, vegeta	ibles under		clover			671			672		Lbs.	673	
glass	or othe	r protection	, GRO	WN FOR SALE	E on "TH	IS PLACE"	' in 1987?	Sorg	hum d	ut for dr		•			689		Tons	700	
		— Сотр				Area irrigate		fora	ge or i	nay		698	ļ		735		dry	736	
2 🗆	NU	— Go to s	ection		Square fe			Sun	flower	seed		734			866		Lbs.	867	
1. Nursery and greenh	ouse c	rops irrigate	d in 19	987 🔲 🌃	7	478	/10	Pros	o mille	et		665			845		Bu.	648	
2. From the list below,	enter 1	the crop nan	ne and	code for each	crop gro	wn.		Mint	for o	l		644.					of oil		
Crop name	Code	Square under gla	ss or	Acres in the in 1987		Sales in	n 1987	1—										-	<del></del>
	<u> </u>	in 198		Whole acres T	enths	Dollars	Cents												
·				,	/10 \$		00												
				1	/10 8	_	00	If mo	re spec	e is needed	i, use a sa	parate	sheet of p	рарег.	·L				
				1	/10 \$		00		name				Cod		rop name				Code
If more space is needed, us Crop name Bedding plants (Include v Bulbs (Exclude bulb flow Cut flowers and cut flor Nursery crops — ornam and nut trees, and vine Foliage plants	regetab rering p ist gree entals,	ole plants) 4 flants) 4 ens 4 fruit	79 82 85 88 07	Crop name Potted flower Mushrooms Sod harveste Vegetable an Greenhouse v Other — Spe	d flower: vegetable	seeds	494 497 500 506	Buck Corn or c Cotte Emm Fesc Grain Lesp	wheat cut for grazed on (bale er and ue seed as, mixe edeza s	seed (po (bushels) dry fodde (report ac as) spelt (bus i (pounds) ed (bushel seed (pou	er, hogge res only) hels) s)	d	57 58 09 59 60	1   S 1   T 9   T 2   W 4   C	treport ac weetclove imothy se	er seed (p ed (pound wahels)	ounds ds)	pecify	. 701 . 737 . 746
SECTION 82 Was t	here a	combined to	stal of	20 or more FR	UIT TRE	ES, includi	ing GRAPE	/INES a	ind NU	T TREES	, on "TH	IIS PL	ACE" in	1987?					
· =	-	— Comp					Total acre	. 1	A-	eno lerion	tod i								
		— Go to s				Wh		Tenths		res irriga acres 1	enths								
TOTAL ACRES in and nut trees on this     For those crops not Report the requeste	s place listed t	. (Do not inc below, enter	<i>lude a</i> the na	bandoned acre ime and code f	s.) rom the	list at the rig		/10 r fruit a				in 19	87.						
Crop name	Code	NU TREES O	MBER R VINI		Acres in	nes of	Quant			of measu Mark one		7							
		Nonbearin age	g	Bearing w	ali a	ges Tenths	harves	ted	Lbs.	Tons Box	Lbs. es per box		C=	op name				Code	
Apples	123	-6-	124				26		127	2 🗔 3 🛭	128	1	Ap	ricots .				129	
Peaches	225		226	22	7	1 (2:	28		229 1 🗆	2 3 3	230	1	Ne	ctarines				201	
Grapes	177		178	17	9		80		181	2 3 3	1182	1	Per Plu	simmon: ms and	prunes .			237	
Старов				2		/10			1 🗆	2 3	15	1	Pec	cans				339 369	
	$\vdash$		1	2		/10			4		15	1							
	<del>  </del>	-	+	2		/10	<del></del> -		<u> </u>	2 3	. 5	1							
If more space is needed, u	se a sep	arate sheet of	paper.			i /10			<u>.                                     </u>	2 🔲 3 🗆		ال.							

Page 2

SECTION 93 GROSS VALUE of CROPS SOLD from "THIS PLACE" in 1987, BEFORE taxes and expenses (Refer to the INFORMATION SHEET, section 9.)	SECTIONALS. Did you or anyone else have any CATTLE or CALVES on this place in 1987?
Report your best estimate of the value for each of the following groups of crops sold	1 YES — Complete this section
from this place in 1987. Include the value of the landlord's and/or contractor's share, estimating if necessary. Include value of Government CCC loans.	2 NO — Go to section 14 INVENTORY Number on this
1. Grains, soybeans and other beans sold in 1987 None Dollars Cents	• DECEMBER 31, 1987 INVENTORY None place Dec. 31, 1987
a. Com for grain	1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)
b. Wheat	a .BEEF COWS — Include beef heifers that had calved. Beef cows
1 00	b. MILK COWS kept for production of milk or
d. Sorghum for grain	cream for sale or home use — Include dry Milk milk cows and milk heifers that had calved
e. Barley	808 Heifers and
Other — we dovedible hears sunflower seed 779	c. HEIFERS AND HEIFER CALVES — (Do not include heifers that had calved.)
popcorn, proso millet, etc	d. STEERS, STEER CALVES, BULLS, Steers and bulls of
2. Cotton and cottonseed	AND BULL CALVES all ages
3. Tobacco	CATTLE AND CALVES SOLD
4. Hay, silage, field seeds, and grass seeds	FROM THIS PLACE IN 1987 Include those fed on this place on a Number sold Gross value of sales
Irish potatoes and sweetpotatoes, report them in item 7 below.)	contract or custom basis. Also report ss sold cattle moved from this place None in 1987 Dollars ICents to a feedlot for further feeding.
6. Fruits, nuts, and berries — apples, peaches, strawberries, etc	2. Calves weighing less than 500 pounds
7. Other crops - potatoes, mint for oil, sugar beets, etc.	3. Cattle, including calves weighing
(Do not include nursery and greenhouse crops.) —	500 pounds or more
SECTION 102 How were the ACRES in this place USED in 1987?	a . Of the total cattle sold, how many were FATTENED on this place on GRAIN or 812 813
1. Copy acres in "THIS PLACE" from section 1, item 4, page 1 Acres	CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?
NOTE: For items 2 to 5 below, if land was used for more than one purpose in 1987 report it in the FIRST land use listed below that applies. For example, report cropland	DAIRY PRODUCTS
harvested and also pastured, only as "Cropland harvested."	THIS PLACE IN 1987 Gross value of sales
2. CROPLAND  a. Cropland harvested — Include all land from which crops  None   Number of acres   787	4. Gross value of sales of DAIRY PRODUCTS 814
were harvested or hay was cut, and all land in orchards, citrus groves, vinayards, and nursery and greenhouse crops.	from this place in 1987 — Include milk, cream, butter, etc
b. Cropland used only for pasture or grazing — Include rotation pesture and grazing land that could have been used for crops without additional improvements.	SECTION SIGN Did you or anyone else have any HOGS or PIGS on this place in 1987?
	1 YES — Complete this section INVENTORY
c. Cropland used for cover crops, legumes, and soil- improvement grasses, but NOT harvested and NOT	2 NO — Go to section 15 Number on this
d. Cropland on which all crops failed— (Exception: Do not	DECEMBER 31, 1987 INVENTORY     None 815
d. Cropland on which all crops failed— (Exception: Do not report here land in orchards and vineyards on which the crop failed. Such accesses is to be reported in item 2a.)	1. HOGS and PIGS of all ages (Total of a and b below)
e. Cropland in cultivated summer fallow	a. HOGS and PIGS used or to be used for BREEDING Breeding
f. Cropland idle	b. OTHER HOGS and PIGS Other
3. Woodland — Include all woodland pastured	LITTERS FARROWED  2 LITTERS FARROWED on this place between None Number of litters
cutover and deforested land with young timber growth.  b. Woodland not pastured	2. LITTERS FARROWED on this place between — None Number of Inters  a. December 1, 1986 and May 31, 1987
4. Other pastureland and rangeland — include any pastureland other than cropland and woodland pasture.	b. June 1, 1987 and November 30, 1987
5. All other land — Land in house lots, ponds, roads, wasteland,	Number Gross value of sales
6tC. — Include any land not reported in items 2 through 4 above	HOGS AND PIGS SOLD     None in 1987     Dollars Cents
(Should be the same as item 1 above .)	3. HOGS and PIGS SOLD from this place in 1987
SECTION 11: Was any LAND in this place IRRIGATED at any time in 1987?  Irrigated land is all land watered by any artificial or controlled means — sprinklers, furrows	4. Of the hogs and pigs sold, how many were
or ditches, spreader dikes, etc. Include supplemental, pertial, and preplant inigation.	sold as FEEDER PIGS for further feeding?
1 YES — Complete this section Number of acres	SECTION 155 Did you or anyone else have any SHEEP or LAMBS on this place in 1987?
2 NO — Go to section 12 None irrigated	1 L YES — Complete this section 2 NO — Go to section 18
How many acres of harvested land were irrigated?     Include land from which hay was cut and land in bearing and     nonbearing full and nut crops reported in section 10. is me 2e.	INVENTORY
nonbearing fruit and nut crops reported in section 10, item 2a	Number on this NumBER SOLD None place Dec. 31, 1987
lands not included in item 1 above were irrigated?	1. SHEEP and LAMBS of all ages
SECTION ID. Were any ACRES in this place SET ASIDE, DIVERTED, OR IDLED under FEDERAL acreage reduction programs in 1987?	a.EWES 1 year old or older
\$12	Number shorn Pounds of wool
1 LI YES — Complete this section 2 NO — Ga to section 13	None in 1987 shorn in 1987
None Number of acres	2. SHEEP and LAMBS SHORN
How many acres were set aside (or diverted) under ANNUAL commodity acreage adjustment programs?	Gross value of sales
2. How many acres were under the CONSERVATION RESERVE	3. What was the gross value of sales of SHEEP,
PROGRAM (10 year, CRP)?	LAMBS, and WOOL from this place in 1987?   \$ i 00

SECTION 16% Did you or anyon	ne else have any H DCK, or ANIMAL	ORSES, B	EES, FISH,	, GOAT	S, in 1987?		SECTION 13 GOVERNMENT CCC LOANS	
518	Complete this sec		ı □ NO	-		17	1. Amount received in 1987 from Government CCC loans for - None Dollars	Cents
	INVENTORY	1				-	Include regular and reserve loans, even if redeemed or forfeited.	1
	Number on this place		antity sold 1987	Gros	s value of a	Bales	a.Com	1 00
1. Horses and ponies		831		832	ollars	Cents	b. Wheat	00
of all ages			Number	1		00	e.Soybeans	00
1	839	840	Number	842		i I	d. Sorghum, barley, and oats	00
2. Colonies of bees		841	Pounds	*		00	e. Cotton	00
Li Colonies di Dees		844	honey	-		<del> </del> -	891	<del></del>
	843	845	Number	12		i i	f. Tobacco, rye, and honey	: 00
3. Milk goats			Gailons milk	)*		00	in 1987 (DO NOT INCLUDE CCC loans.) Refer to INFORMATION	
	847	848	Number	850		i	SHEET, section 19. None Dollars	Cents
4. Angora goats	1	849	Pounds	8		00	1. Amount received in cash	00
	851	852	mohair	853		<u> </u>	2. Value of certificates received — payment-in-kind (PIK)	1 00
5. Other goats		<u> </u>	Number	8		00	or commodity certificates	00
6.Mules, burros, and	833	834		835			S20	
donkeys	836	837	Number	838		00	Mark (X) the one item which best describes the type of organization for	
7. Mink and their pelts		}	Number	١.		00	this place in 1987. Refer to the INFORMATION SHEET, section 20.	
	854	855		856			◆ FAMILY or INDIVIDUAL operation — 921	
pelts			Number	\$		00	(Do not include permership and corporation.)	n 22
9. All other livestock and livestock products	857	858		859		l I	pertnerships	
Specify			Number	1	ļ	00	INCORPORATED UNDER STATE LAW	n 21
1	Total quantity	eold Gro	ss value o		<u> </u>		OTHER, such as estate or trust, prison farm, grazing association, Indian reservation, etc	
10. Fish and other aquaculture products (Enter name and	in 1987	Solu	Dollars	Cents	1		go to section	n 22
code from list below.) Name Code	ORPG	zunds 2		1			Specify	
	F04	mber 3		00	j		SECTION 21 CORPORATE STRUCTURE (for incorporated operations only) Refer to the INFORMATION SHEET, section 21.	
1	Code	Name			Code		\$21	
Catfish	860 863	Other ago	1 — Specify Jaculture				1. Is this a family-held corporation?	No
If more space is needed, use a sepa			- Specify				2. Are there more than 10 stockholders?	No
TURKEYS, DUC	ve else have any P( KS, etc., on this pl					п .	CHARLES OF CHARACTERISTICS AND OCCUPATION OF OREDATOR (Series nor	tner
for others on a c	ontract basis.		INVENT				or person in charge) Refer to the INFORMATION SHEET, section 22.	
	Complete this se		Numbe this pl	ace	Total nur sold in 1		1. RESIDENCE — Does the operator (senior partner or 923 person in charge) live on this place?	No
· —	Go to section 18		Dec. 31,	1987	893		porcent in ordings, and out and product that the transfer of the contract of t	140
1. HENS and PULLETS of laying 2. PULLETS for laying flock repl	_	· · · · · ·					2. PRINCIPAL OCCUPATION — At which occupation did the operator spend the majority (50 percent or	
a.PULLETS 3 months old or old		age 🗆	894		898		more) of his/her worktime in 1987? For partnerships consider all members of the partnership together	Other
b.PULLET CHICKS and PULLET	TS under 3 months	old	896		(		or ranching	
(Do not include commercial bro					<u>'                                     </u>		3. OFF- FARM WORK — How many days did the operator (senior partner or person in charge) work at least	
<ol> <li>BROILERS, fryers, and other including capons and roaster</li> </ol>			898		899		4 hours per day off this place in 1987? —include work at a nonfarm job, business, or on someone else s farm for 3 50-99 days	
4. TURKEYS			900		901		pay. (Do not include exchange farmwork.)	ys
a.Turkeys for slaughter (Do n			902		903		s ☐ 150—199 da	
b.Turkey HENS kept for bree		· Ц					o □ 200 days or n	nore
<ol> <li>OTHER POULTRY raised in ca geese, pigeons or squab, phe</li> </ol>							4. In what YEAR did the operator (or senior partner) begin oeo to operate any part of this place?	
(Enter poultry name and code from			]	]	1		925	
Poultry name	Code		<del> </del>		1		5. AGE of operator (senior partner or person in charge) Years	old
Poultry name	Code		<u> </u>				924	
Mame Code Ducks	Name Pigeons or squab	Code	Wester	•	Cod		₂ ☐ Negro or Blac	k
Geese	Pheasants		All oth	ner poult			6. RACE of operator (senior partner or person in charge) 3 American Indi	
6. POULTRY HATCHED on this pla		None		Numbe			4 Asian or Pacificial Asia	ic
placed or sold — chickens, turk	eys, ducks, etc. –		918				9 ☐ Other — Spec	ify_
Specify kind of poultry	917							
7. Incubator egg capacity on De	ecember 31, 198	7□[					7. SEX of operator (senior partner or person in charge) 1 Male 2	Female
		G	oss value (	of sales				
8. What was the gross value of sa		918	Dollars	!	Cents		8. SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent	
poultry and poultry products (e etc.) from this place in 1987?		\$		}	00		(Mexican, Puerto Rican, Cuban, or other Spanish)? 1 Yes 2	No
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SE	PRODUCTION EXPENSES paid by you and ott place in 1987	ers for	this	8	SECTION: 25% Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATICIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1987?							
Inc	ude your best estimates of expenses paid by you, your landk	ord, cor	ntractors,	1	1 YES - Complete this section 2 NO - Go to section 26							
oth	ers, and others for production of crops, livestock, and other a 987. (DO NOT INCLUDE expenses connected with perform ers; operation of nonfarm activities, businesses, or services; enses not related to the farm business.)	ing cus or hou	tomwork for sehold	- 1	Include any materials provided by you, your landlords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report acreage treated for each purpose.							
1.	Livestock and poultry purchased — cattle, calves,	None	Dollars Cer	118	1 Common dusts annuals furnished to the solids Acres on which	╗						
	hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc.		\$ ! 0	- 1	herbicide, insecticide, nematicide) to control —	$\dashv$						
2.	Feed purchased for livestock and poultry — grain,		972	7	a. Insects on crops, including hay	$\dashv$						
	hay, silage, mixed feeds, concentrates, etc		<b>s</b>	Q.	b. Nematodes in crops	긕						
	<ul> <li>Commercially mixed formula feeds purchased — complete, supplement, concentrates, premixes.</li> </ul>				c. Diseases in crops and orchards (blights, smuts, rusts, etc.)	╛						
	(Do not include ingredients None Dollars	Cente			d. Weeds, grass, or brush in crops and pasture —							
	purchased separately, such as soybean meal, cottonseed	1		▓ ,	Include both pre-emergence and post emergence.  2. Chemicals for defoliation or for growth control	ᅥ						
_	meal, and urea.)	00	974	888E	of crops or <b>thinning</b> of fruit	┙						
3.	Seed cost — for com, other grains, soybeans, tobacco, cotton, etc. — Include plants and trees purchased			o 🏻	SECTION 262 MACHINERY AND EQUIPMENT on this place on December 31, 1987 —  828 Include only equipment used for egricultural operations in 1986 or 1987.							
4.	Commercial fertilizer purchased — all		975		825	1						
	forms, including rock phosphate and gypsum.  Include cost of custom applications.				Value of ALL machinery and equipment on this place, December 31, 1987	-						
	Agricultural chemicals purchased — insecticides,	_	976	_	What is the estimated market value of ALL machinery,     Fetimated market value	-1						
	herbicides, fungicides, other pesticides, etc. — Include				equipment, and implements usually kept on this place							
	cost of custom applications. (Do not include lime.)		18	-	and used for the farm or ranch business? — Include cars, trucks, tractors, combines, prows, disks, harrows, dryers,	٦						
	purchased for the farm business — a.Gasoline and gasohol		977		pumps, motors, irrigation equipment, dairy equipment including milkers and builk tanks, livestock feeders, grinding and mixing equipment, atc. 900	,						
		]	978	-1	operation, and	$\exists$						
	b.Diesel fuel	므	979	<u> </u>	SELECTED machinery and equipment on this place, December 31, 1987. (Report on this place on MANY were manufally the second of the total, HOW on this place on this pl	ю-						
	c. Natural gas		8 0	0	only if used in 1986 or 1987.)  None  December 31, 1997 tured in the last 5 yet (1983 - 1987)?	JITS						
	d. LP gas, fuel oil, kerosene, motor oil, grease, etc		\$ 0	ο,	2. Motortrucks — Include pickups	ᆌ						
	Electricity for the farm business (Do not		981		3. Wheel tractors other than garden tractors	٦						
	include household expenses.)  Hired farm and ranch labor — also include employer's cost	. ⊔	\$ 0	0	and motor tillers	Ì						
	for social security, workman's compensation, insurance		982	Ī	b. 40 horsepower (PTO) or more	$\Box$						
	premiums, pension plans, etc. (See INFORMATION SHEET)	L	\$ ! 0	0 4	4. Grain and bean combines, all types							
9.	Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc.,		983		5. Cotton pickers and strippers	$\Box$						
	performed on a contract basis by a contractor, crew leader, a cooperative, etc.				6. Mower conditioners	4						
10.	Repair and maintenance expenses for the		984	7	7. Pickup balers — Include rectangle and round belors	J						
	upkeep of buildings, motor vehicles, and farm equipment			, 2	SECTION 27 ESTIMATED CURRENT MARKET VALUE OF LAND and	٦						
				<b>*</b>	527 BUILDINGS	╝						
	Customwork, machine hire and rental of machinery and equipment — include expenditures for		:		Please give your best ESTIMATE of the CURRENT MARKET VALUE of land and buildings for all acres reported in  Estimated market value of land and buildings	•						
	use of equipment and for customwork such as grinding and mixing feed, plowing, combining, com picking,		i ess i	ı	section 1, items 1, 2, and 3, page 1. None Dollars Cen	ts						
	drying, silo filling, spraying, dusting, fertilizing, etc. (Do not include cost of cotton ginning and application of	_	1		996	$ \cdot $						
	fertilizer and chemicals.)	ш	986 I	<b>-</b>	1. All land owned	닉						
	Interest paid on debts — (See INFORMATION SHEET)  a. Secured by real estate		s [ 0	0 2	2. All land rented or leased FROM OTHERS	,						
			987	<b>.</b>	3. All land rented or leased TO OTHERS	١,						
	b.Not secured by real estate	Ш	968	_	SECTION 262 INCOME FROM FARM - RELATED SOURCES IN 1987	$\dashv$						
13.	Cash rent paid for land and buildings in 1987— (Do not include grazing fees.)		\$ 0		S28 Report amount received before taxes and expenses.	_						
14.	Property taxes paid — Include farm real estate,		989 1	٦,	1. Customwork and other agricultural services provided for None Dollars Cen	-1						
	machinery, livestock, etc. for the farm business. (Do not include texes paid by landlords.)				farmers and others — clowing pienting enraying	7						
			i		harvesting, preparation of products for market, etc. (If austornwork is a separate business, refer to INFORMATION SHEET, section 28 \$ 000	۱,						
15.	All other production expenses — include insurance, water, animal health costs, grazing fees, marketing charges, miscellaneous farm supplies, etc. (Do not include depreciation,		1	1.		丨						
	household expenses, and expenses not associated with the		990	•	2. Gross cash rent or share payments received from renting out farmland or payments received from lease or sale of	-						
	farm business.)	ليا	\$ 0	<u>۷</u>	allouments — Include payments for livestock pastured on a per-head basis, per-month basis, per-pound basis, etc	۱ ر						
SE	Was any COMMERCIAL FERTILIZER, Includin LIME used on this place during 1987?	ng ROC	K PHOSPHATE, or	1	3. Sales of forest products and Christmas trees - Include	1						
	327	NO	Go to section 25	- 1	maple products, naval stores, firewood, etc	닉						
			one Acres fertilize	₫'	4. Recreational services, patronage dividends of cooperatives, and other income which is CLOSELY RELATED to the	1						
1. /	Acres of cropland fertilized in 1987 — (Do not include cropla or pastures reported in section 10, item 2b.)	nd [	32	1	agricultural operation on this place -	- [						
2.	Acres of pastureland and rangeland fertilized in 1987	•	933	Ļ	Specify \$ 00	깈						
•	eported in section 10, items 2b and 4	l			SECTION 29 PERSON COMPLETING THIS REPORT — Please print Name 999 Date	4						
	IME — tons of lime used and acres on	of lim	e Acres limed	4		╝						
١.	which applied — (Do not include land plaster or ypsum or fime for sanitation.)		1	1	Telephone number Area Code Number	٦						
	37-A0202 (8-20-86)				<u> </u>							

age o

## INFORMATION SHEET

#### **1987 UNITED STATES CENSUS OF AGRICULTURE**

## **Special Reporting Instructions**

#### 1. Who Should Report

WE NEED A REPLY FROM EVERYONE RECEIVING A REPORT FORM, INCLUDING individuals, landlords, tenants, partnerships, corporations, institutions, and THOSE NOT CONDUCTING AGRICULTURAL OPERATIONS. Each case included in the census has a unique Census File Number (CFN). In order to make the census results as complete and accurate as possible, we need to obtain information about every CFN.

#### 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 1987, please report all agricultural activity during the year. Report all land on your census form that you owned or rented. Also, report your 1987 crop and livestock production and 1987 sales.

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 explaining this and return the form 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, i.e., 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 report(s) in the same envelope with the completed partnership report, where possible, or write a note on the duplicate report, such as, "(Name of partner) has completed a report for the partnership (provide name and CFN of partnership.)"

#### 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. If you do not have records available for all data items, use your best estimate.

#### **How to Enter Your Response**

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

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 will 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 1987

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 1987 whether in production or not. Include all land that you owned or rented during 1987 even if only for part of the year. Do not include any unrelated residential or commercial land.

IF YOU QUIT FARMING DURING 1987 — Complete the report form for the portion of the year that you did farm. Explain on the report form in the space to the left of the address label (or on another sheet of paper) when you stopped farming and include the name and address of the person now using the land.

Report all land in section 1 in whole acres.

Item 1 — All Land Owned — Report all land owned in 1987 whether held under title, purchase contract or mortgage, 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 of the 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.

#### **INCLUDE** in item 3:

- Owned land rented to others for cash or a share of crops or livestock
- Land you rented from someone and then subleased to someone else
- 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 1987.

#### If item 4, Acres in "THIS PLACE" is "O" and:

- You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. 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.
- e. You did not have any agricultural activity on owned or rented land in 1987, complete section 29 and explain briefly, such as "retired," "sold farm," and date. Give name and address of current operator if known and return form.

#### Sections 2 through 8 — CROPS

Sections 2 through 8 provide space for reporting crops harvested during the 1987 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 1987.

Acres harvested — Enter the acres harvested in 1987. Round fractions to whole acres except where tenths are requested by "/10" in the reporting box, such as for potatoes.

Quantity harvested — If your unit of measure is different than the unit on the report form, please convert your figure for the quantity harvested to the unit requested. If the harvest was incomplete by December 31, 1987, please report the quantity harvested and estimated quantity to be harvested.

Acres irrigated — 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/or preplant irrigation. Do not report water applied in transplanting tobacco plants, trees, or vegetables as irrigation. Leave "Acres irrigated" blank for crops that are not irrigated.

#### **How to Report Crops Harvested**

- ▶ Sections 2 and 3 Report only for the listed crops.
- ➤ Sections 4 through 8 To report: (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 you harvested a crop not listed in sections 4 through 8, use the "Other" code in the appropriate section and specify the crop name.

**Double Cropping** — If two or more crops were 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 1987 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.

Section 25 Were any c "THIS PLA	Were any of the following CROPS harvested from "THIS PLACE" in 1987?												
None	Acres harvested	Quantity hervested	Acres irrigated										
1. Cotton	091	092 Bales	093										
2. Soybeans for beans	088 40	089/,550 Bu.	090 40										
3. Wheat for grain	073 40	074, 230 Bu.	075										
4. Oats for grain	076	077 Bu.	078										

**Interplanted Crops** — 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 the 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 (2  $\times$  2), 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, item 2f.

Section 4 — VEGETABLES — Report acres of vegetables harvested FOR SALE or commercial processing. Do not include vegetables grown for home use. Report the total acreage of each vegetable crop harvested.

Example: In 1987 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 2f "Cropland idle."

If crops other than fruit and nut trees and vines were interplanted with trees or vines, report the total acres for the orchard crop in section 8 and the total acres of the interplanted crop in the appropriate section.

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

Report the value of all crops sold from "THIS PLACE" in 1987, regardless of the year they were harvested or who owned the land. Be sure to report gross values before deducting expenses and taxes. Include Government CCC loans received for "THIS PLACE" in 1987. Include payments received in 1987 from cooperatives or marketing organizations for crops produced on "THIS PLACE" regardless of the year in which the crops were harvested.

Also include as sales, your estimate of the value of any crop removed from "THIS PLACE" in trade for services, such as hay cut in exchange for fence repair, clearing, or other services. If the sale price or market value is not known, give your best estimate of the crop's market value when removed from "THIS PLACE."

DO NOT INCLUDE crops or crop products purchased from others and later sold.

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#### ► Section 10 - USE OF ACRES IN "THIS PLACE"

This section is used to classify the acres in "THIS PLACE" reported in section 1, item 4. (Do not include any acres you rented to others reported in section 1, item 3). The sum of the acres entered in various categories should equal total acres in "THIS PLACE."

Land Used for More Then One Purpose — Do not report the same acreage for more than one of the listed purposes. If part or all of your land was used for more than one listed purpose in 1987, report that land only in the first category listed. For example, if you plowed under a cover crop, and planted and harvested a grain crop, report the land in item 2a, "Cropland harvested," but do NOT report as "Cropland used for cover crops, legumes, etc." (item 2c).

**Pouble Cropping** — When more than one crop was harvested from the same land in 1987, report that land only ONCE as "Cropland harvested," in item 2a.

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

Skip Row Planted Crops — Report the acres that represent the total nonplanted or skipped rows as "Cropland idle," item 2f. The acres that represent the planted rows should be reported as "Cropland harvested," in item 2a.

# ➤ Section 12 — ACRES SET ASIDE, DIVERTED, OR IDLED UNDER FEDERAL ACREAGE REDUCTION PROGRAMS IN 1987

Include in item 2 all acres in "THIS PLACE" retired from production and placed, by long-term contract, into the Conservation Reserve Program. Acres placed into the program during and prior to 1987 should be included.

# ➤ Sections 13 through 17 —LIVESTOCK, POULTRY, OTHER LIVESTOCK, OR ANIMAL SPECIAL TIES

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, 1987. Include all owned by you and any kept by you for others. Include animals on unfenced lands, National Forest land, district 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, 1987, or animals on a short-term pasture (such as wheat pasture or crop residue) 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 animals or poultry kept on land rented to others or kept under a share arrangement 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 capeaus.

Number Sold — Report all animals and poultry sold or removed from "this place" in 1987, 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.

Dairy Termination Program or "Whole-Herd Dairy Buy-Out Program" — The amount received in 1987 from the Government under the dairy termination program should be included in section 19, item 1. Dairy animals and products sold in 1987 should be reported in section 13.

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 13, item 3a.

#### DO NOT INCLUDE WITH FATTENED CATTLE SOLD:

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

Page 2

Value of Sales — Report the total gross value of animals and poultry sold or removed from "this place" in 1987 without deducting production or marketing expenses (cost of feed, cost of livestock purchased, cost of hauling 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, 1987. Report as "SOLD" animals and poultry kept on a contract or custom basis and removed or sold from the place in 1987. 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 the place.

# ► Section 16 — HORSES, BEES, FISH, GOATS, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES

Item 2 — If you owned BEES — Report all colonies or hives of bees and honey operations conducted by you, regardless of where the hives were kept most of the year. Report hives or colonies, pounds of honey sold,

Items 7 and 8 — Mink pelts and rabbit pelts should be included in number sold and value of sales, but not in inventory.

Item 9 - Other Livestock and Livestock Products - Include in all other livestock and livestock products manure, beeswax, and any other animal products sold from "this place" in 1987. Please indicate units used in reporting.

Item 10 — Fish and Other Aquaculture Products — Report number of pounds sold and gross value of sales for each. Enter name and code

#### ► Section 17 - POULTRY

The person who furnished the housing and labor should report the poultry operation on his/her report form regardless of who owns the birds. Report as sold poultry that were taken or moved from the place in 1987.

# ► Section 18 -- AMOUNT RECEIVED FROM GOVERNMENT CCC LOANS

Item 1 — Report the amount received under the regular or reserve program for commodities placed under CCC loan during 1987. Include amount received even if commodity was redeemed or forfeited prior to December 31, 1987.

Do not include CCC loans received to build crop storage facilities or amount received for storage payments in the reserve program.

#### tion 19 — FEDERAL PAYMENTS RECEIVED

Report all payments received from Federal Farm Programs in 1987 regardless of whether payment was made in cash or commodity certificates. Include cash payments in item 1. In item 2, include the value of any certificates held or the value received from sale or redemption of any certificates in 1987.

Federal payments include receipts from Federal programs such as deficiency payments, "Whole-herd dairy buy-out," support price payments, indemnity programs, disaster payments, paid land diversion, inventory reduction payments, payments received for approved soil and water conservation projects, etc.

#### tion 20 — TYPE OF ORGANIZATION

Use the following definitions to determine the type of organization for

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

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

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. Information on type of corporation should be reported in section 21.

Other — Such as cooperatives (defined as an incorporated or unincorporated enterprise or an 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 government or religious entity, etc.

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#### ► Section 21 — 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 22 — CHARACTERISTICS AND OCCUPATION OF OPERATOR

This section collects information about the operator of "this place" defined as the individual owner, the operator, the senior partner, or person in charge for the type of organization reported in section 20.

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

For Partnership Operations — Answer all items, except item 2, for 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" working at all types of agricultural Please include as "farming" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, renching, feedlots, broiler feeding, etc.

For Corporations and Other Operations (Cooperatives, Estates, etc.) — Complete section 22 for the person in charge, such as a hired manager, business manager, or 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 basis. If the operator returned to a place previously operated, report the year operations were resumed.

▶ Section 23 — PRODUCTION EXPENSES paid by you and others for "this place" in 1987
Include farm production expenses paid by you, your landlord, contractors, or anyone else for crops, livestock, or poultry produced on "this place." Include expenses incurred in 1987 even if they were not paid for in 1987. Please estimate if exact figures are not known. Refer to the individual expenditure items below for further explanations. explanations.

Livestock and Poultry Purchased — Report the cost of cattle, calves, hogs, pigs, sheep, lambs, horses, goats, chicks, pullets, poults, etc., including breeding stock and dairy cows. Contract growers or custom feeders who did not own or purchase the livestock or poultry themselves should estimate the value of the cattle, calves, pigs, baby chicks, pullets, etc. at the time they came onto the place.

Feed Purchased for Livestock and Poultry — Report the purchase cost of corn, sorghum, oats, barley, other grains, silage, hay, mixed feed, concentrates, etc., fed to livestock and poultry on "this place." Contract livestock and poultry growers should estimate the value of feed provided by the contracting company. Custom feedyards should include feed costs for all cattle fed even if the owners of the cattle were billed for the feed. Feed raised on "this place" should not be reported as purchased.

Cost of Hired Farm and Ranch Labor — Include gross salaries and wages, commissions, dismissal pay, vacation pay, and pald bonuses paid to hired workers, family members, hired managers, administrative and clerical employees, and salaried corporate officers. Also, include supplemental cost for benefits such as employer's social security contributions, unemployment compensation, workmen's compensation insurance, life and medical insurance, pension plans, etc.

Contract Labor — includes the labor costs of workers furnished on a contract basis by a labor contractor, crew leader, or cooperative for harvesting vegetables or fruit, shearing sheep, or similiar farm activities. Do not include costs for building or repair work done by a construction contractor. Include the cost of customwork or machine hire in item 11.

Repair and Maintenance Expenses for the Upkeep of Buildings, Motor Vehicles, and Farm Equipment — Include the cost of repairs and upkeep of farm machinery, vehicles, buildings, fences, and other equipment used in the farm business. Do not include repairs to vehicles not used in the farm business or for equipment used only for performing customwork for others. Do not include expenditures for the construction of new buildings or the cost of additions to existing buildings. Include the

Page 3

Interest Expense Pald on Debts — Report all interest expenses paid in 1987 for the farm business. Include interest on loans secured by land and buildings (real estate) in item 12a. Include all loans not secured by real estate such as for fertilizer, feed, and seed in item 12b. Include interest paid on CCC loans. Do not include interest associated with activities not related to production of crops or livestock on "this place" such as land or buildings rented to others, packing sheds, or feed mills that provide services to others. Do not include interest on owner/operator dwelling where amount is separated from interest on other land and buildings on "this place."

Cash Rent Paid for Land and Buildings in 1987 — Report rent paid in cash during 1987 for land and buildings in "this place." Do not include rent paid for operator dwelling or other nonfarm property. Do not include the value of shares of crops or livestock paid to landlords.

Property Taxes Paid — Include real estate property taxes you paid on the acres and buildings you operated and used in the farm business.

Do not include:

- a. Property taxes on land or buildings rented to someone else
- b. Taxes paid by landlords
- Property taxes paid on other property not associated with the farm business
- d. Income and excise taxes

All Other Production Expenses — Farm production costs not previously listed should be reported here. In addition to items listed on the report form, include bookkeeping charges, tax preparation fees, postage, advertising, commission for sale of cattle, and fees paid for farm-related advice or for farm consultants. Do not include depreciation or expenditures for the purchase of land and buildings or new or used machinery.

#### ▶ Section 24 — COMMERCIAL FERTILIZER AND LIME

Report acres on which commercial fertilizer (items 1 and 2) or lime (item 3) was applied during 1987. If any acreage was fertilized or limed more than once, report acres ONLY ONCE in each item. Report expense for commercial fertilizer purchased, excluding lime, in section 23, item 4.

#### ► Section 26 -- 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. Report the value in its present condition, not the replacement or depreciated value. Specialized equipment, which is an integral part of a building, should be included as a part of the value of land and buildings.

# Section 27 — ESTIMATED CURRENT MARKET VALUE OF LAND AND BUILDINGS

The value for each of the three listed categories should be your estimate of the value of the land and buildings if they were sold in the current market. The real estate tax assessment value should not be used unless that value rapresents a full market value assessment and the land and buildings could reasonably be assumed to be sold at that price. Do not deduct real estate marketing charges from your estimate. Report the total value, not the value on a per acre basis.

#### ► Section 28 — INCOME FROM FARM—RELATED SOURCES IN 1987

Item 1 through 4 refer only to those income producing activities for which you use part of the land, machinery, equipment, labor, or capital normally used on "this place," and which you do not consider as entirely separate from your farming activities. Report gross amounts received before taxes and expenses.

- **Item 1 Customwork** Do not report income for customwork or agricultural services provided to others if operated as an entirely separate business from your agricultural operations.
- Item 2 Rental Income Do not include rental income from nonfarm property.
- Item 3 Forest Products Include only those forest products or Christmas trees cut from "this place," not items cut from other nonfarm timber acreage. Do not include income from saw mill husiness.

Item 4 — Other Farm-Related Income — Include income from hunting leases, fishing fees, and other recreational services, sales of farm by-products, and other business or income closely related to the agricultural operation on "this place." Include dividends for business done with farmer-owned cooperatives. Do not enter previously reported farm sales or income from investments not associated with the farm. Do not include retirement pensions or social security benefits received.

FORM 87-A01(I) (12-17-86)

DUE BY FEBRUARY 1, 1988						•			OMB No. 0807-0534; Appro-	val Expires Septer	mber 30, 1989
FORM 87-A0400 (3-13-87)	U.:	S. DEPART	MENT OF	COMMERCE THE CENSUS	MOTICE - THE CENSU only for stat	Response to this inquiry is req S BUREAU IS CONFIDENTIAL istical purposes. Your report C provides that copies retained	uired by L. It may CANNOT	law (title 13, U be seen only be be used for pur	S. Code). By the same y sworn Census empl poses of taxation, inve	law YOUR R	REPORT TO
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AG CENSUS USA	BUREAU OI	F THE CE	NSUS								
form and RETURN TO	1201 East T Jeffersonvil	Ne, IN 4	7133								
Note — If your records are no used. If you cannot file by Februa to the above address. Include yo as shown in your address label in	ery 1, a time e our 12-charact	extension re ter Census	File Nun	ay be sent nber (CFN)							
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and return extra copies with your completed report. A		<u> </u>	038								
CENSUS USE OSS OSS OSS OSS	03,		042		Plea	se correct errors in name, edo	iress. en	d ZIP Code. EN	TER street and numbe	r if not show	n.
SECTION 1			2 7 2			SECTION 4				4.	
1 - At any time during 1987, did • Hay or tobacco?		row, or ha uit, nut, or		rees. Grane	wines?	PART A — CROI     (Do not include crops				CE" In 19	87.
<ul> <li>Corn, wheat, or other grain</li> <li>Other crops?</li> </ul>	ns? • Ve	getables, eenhouse	meions,	or berries				Acres			s value of ps sold
	Yes	D N	1.0	ay cropar		1. Hay crops —	Nor	ne harvested	<u> </u>	Dolla	
2. At any time during 1987, did		all, or keep	any:			a - Alfalfa and alfalf mixtures	" ⊏	103		ons, 782 Iry \$	00
<ul> <li>Cattle, hogs, sheep, or gos</li> <li>Chickens or other poultry?</li> </ul>		rses or po h in captiv				b. Small grain hay .	□	108		ons, 782 lry \$	00
• Bees?	The fire that the same	her anima		ties?		c.Wild hay	.,, ⊏	112	1	ons, 782 lry \$	00
If you answered YES to El	J Yes THER of the	UN	****	en RECTI	ON 2	d.Other hay	. 15 (2) A 	1 100	7	ons.	00
If you answered NO to BO	TH of these	question	, go to	BECTION	10.	2. Corn for grain or se	ed [	087	068	773 lu. \$	00
SECTION 2 . ACREAGE IN your spouse, or						3. Soybeans for beans	******* <u>**</u>	088	089	776 Ju. \$	00
which you are r	eporting. Inc	clude ALL	LAND,	REGARDI	ESS OF	4. Wheat for grain	⊏	073	074	774 ku. \$	00
LOCATION OR woodland, idle	land, house	lots, etc.	toreland		lumber of scre	그렇게 뭐야 하다 맛있다. 하는데 없다.	в 🗀	094	095	781 bs. \$	. 00
1. All land owned					43	6. Potatoes, Irish -/De	0	097	098	785	i
2. All land rented or leased FRO	M OTHERS.	includina l	and	` ' '	7 V 45 c	not include those grows for home use.)	" □	<i>ــــــن</i>	10 0	wt. 8	00
worked by you on shares, us services, payment of taxes,	ed rent free, i	in exchang	ge for		44	7. All vegetables for sa	ماد	None Total	acres Dollars C	ents	11.
and railroad land. (DO NOT in basis under a grazing permit.	nclude larid us	sed on a p	er-head			(Do not include those gr for home use.)	OWN	375	/10 \$	00	
3. All land rented or leased TO 01 shares by others and land suble	THERS, includi	ing land w	orked on	_ [	45	Specify {			/10 /10		
4. Acres in "THIS PLACE" and acres rented (item 2), t TO OTHERS (item 3), and e	hen SUBTRA	ACT acres	rented		048	8. All fruit and nut orci		None Total	acres Quantity herve	sted Doffer	rs Cents
If the entry is zero please refe				***/an 2	14 15 <b>1</b> 18 18 18	Specify \$				be.	
5. Of the land you rented or leas	and the second	. grada 17	. Aradi	artis en la companya de la companya		kind(s)			1 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	be.	
acres did you own?			· · L	11.57. <del>1</del>	Acres	9. Other crops — For ec Report quantity harvest	ted in the	unit specified w	top name and code from th crop name.	<u> </u>	2 2 2
<ol><li>In what county was the large agricultural products raised of</li></ol>	or produced?			County nam	ne State	Crop name	Cod	fe Acres harvested	Quantity harvest		s value of os sold rs Cents
SECTION 3. LAND USE and PARTA — How were the	d IRRIGATI ACRES in t	ION this place	used l	n 1987?		<u> </u>				8	00
1. Cropland harvested — Inclu		100		None N	lumber of acre	If more space is needed, use		a character of margar	<u> </u>	<b>-</b>	00
were harvested or hay was cut groves, vineyards, and nursen	r, and all land i	in orchangs	. carus			Crop meme		Code	Crop name		Code
2. Cropland on which all crops	sfailed - IEx	ception: Do	not		90	Barley for grain (bushels) Corn for silage or green cho Cotton (bales)	p (tons,	green) 079	Oats for grain (bushel Sorghum for grain-mi Other crops (pounds)	lo (bushels) .	076 082
report here land in orchards and a 3. Cropland idle, cropland use	d for cover c	rops,	ор твиеса.		93	PART B - NURSER	RY and	GREENHOUS			
or cropland in cultivated sur	mmer fallow			. 🏻 🔓	96	on "THI: From the list below, en	5 * 5	E" in 1987	code for each cron	grown	
<ol> <li>Cropland used only for pa- and other pastureland and</li> </ol>	d rangeland				27			Square feet	Acres in the open	Sales in	1987
<ol><li>All other woodlend, waste reported in items 1 throug</li></ol>				. oľ	• (	Crop name	Code	under glass or ther protection	in 1987 Whole acres Tenths	Dollars	Cents
PART B - IRRIGATION				None	umber of acres	· • · · · · · · · · · · · · · · · · · ·			/10	<b>3</b>	00
How many acres of harvest land from which hay was cut a fruit and nut crops.	nd land in bes	rino and ne	? Include onbearin	• 66		If more space is needed, use a Crop name Bedding plants (include veg		Code	Crop name Potted flowering plan	•	Code 710
2. How many acres of pasture lands not included in item 1	land, rangels	and, and a	any othe		31	Cut flowers and cut florist g Nursery crops — ornaments and nut trees, and vines	TARTE .	486 [	Foliage plants Greenhouse vegetable Other — Specify	فالمتاها والماما	707 503
ENALTY FOR FAILURE TO REP									JE ON REVERSE SIL	DE	

SECTION 56 LIVESTOCK and POULTRY		PART E — HORSES, OTHER LIVESTOCK, ANIMAL SPECIALTIES, and FISH
PART A — CATTLE and CALVES	INVENTORY	None None None None 23, 1987   Total quantity Gross value of sales sold in 1987   Dollars   Cents
None		
	803	of all ages
1. CATTLE and CALVES of all ages	Total 804	839 5 840 Number 842
BEEF COWS — Include beef helfers that	Beef cows	2. Colonies of bees
nad calved	808	843 844 848
MILK COWS kept for production of milk or cream for sale or home use — include dry milk cows and milk heifers that had calved	Milk	Number 848 Gallone
milk cows and milk helfers that had calved L	Cows	3. Milk gosts
a	Gross value of sales	Number
None	Dollars Cents	4. Angora goats
2. Value of DAIRY PRODUCTS sold in 1987 - 814		B. Other livestock, fish,
Include milk, cream, butter, etc	00	animal products. (Enter neme/code from below.)
CATTLE and CALVES SOLD     FROM THIS PLACE IN 1987		1 Quentity \$ 00
Include as sold cattle moved from Numb	er sold Gross value of sales	Name . Name/code . Name/code
this place to a feedlot for further None in 1 feeding.	1987 Dollars Cents	Mules, burros, donkeys
3. Calves less than 500 pounds	• 00	The property of the second sec
B10	811	Amount received in 1987 from Government CCC loans, include requier
4. Cattle - Include calves 500 pounds or more	813	Amount received in 1987 from Government CCC loans, include regular and reserve loans, even if redeemed or forfeited.  None Dollars Cents
Of ALL cattle sold, how many were     FATTENED on this place on GRAIN or	=13	Specify crop(s)
CONCENTRATES for 30 days or more	1.	SECTION 7. Payments received for participation in FEDERAL FARM
and SOLD for SLAUGHTER?	9 00	PROGRAMS in 1987 (DO NOT INCLUDE CCC loans.)
PART B — HOGS and PIGS	INVENTORY Number on this	None Dollars Centa
None	place Dec. 31, 1987	684
		1. Amount received in cash
1. HOGS and PIGS of all ages	Total	(PIK) or commodity certificates
a. HOGS and PIGS used or to be used for breeding	Breeding	SEGIUM8 Acres in this place SET ASIDE, DIVERTED, or IDLED under FEDERAL acresge reduction programs in 1987
•		None Number of acres
Numbe		1. How many acres were set aside (or diverted) under682
· · · · · · · · · · · · · · · · · · ·	1987 Dollars Cents	ANNUAL commodity acreage adjustment programs?
2. HOGS and PIGS SOLD from this place in 1987	. 00	2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)?
	823	SECTION OF CHARACTERISTICS and OCCUPATION OF OPERATOR
3. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?		(Senior partner or person in charge)
PART C — SHEEP and LAMBS     INVENT Number	NUMBER SOLU	1. RESIDENCE — Does the operator live on this
None place Dec.	31, 1987	place? 1 Yes 2 No
6 CUTTO	825	2. PRINCIPAL OCCUPATION — At which
1. SHEEP and LAMBS of all ages		majority (50 percent or more) of his/her
a. EWES 1 year old or older		worktime in 19877 For partnerships consider or ranching 2 Other all members of the pertnership together.
2 SHEED and LANGE SHOPE None   627	1828	. 920 🔏
2. SHEEP and LAMBS SHORN IN 1987	Pounds	3. OFF-FARM WORK — How many days did the operator work at least 4 hours per day off this
· · · · · · · · · · · · · · · · · · ·	ross value of sales	place in 1987? —Include work at a nonfarm job.   2 49 days
2. What was the gross value of sales of None	Dollars Cents	business, or on someone else's farm for pay. (Do not include exchange farmwork.)
SHEEP, LAMBS, and WOOL from this		\ 4 □ 100-149 days 5 □ 150-199 days
place in 1987?	00	□ 200 days or more
• PART D — POULTRY	NUMBER on Number	
1. HENS and PULLETS None D	this place   sold in 1987 lec. 31, 1987	4. In what YEAR did the operator begin to operate any part of this place? Year
1. IIENS BIO FOLLETS		925
a. HENS and PULLETS of laying age	1 1895	5. AGE of operator Years old
laying age for layer replacement		924 € 1 ☐ White
e. PULLETS under 3 months old for layer	6	₂☐ Negro or Black
replacement	1899	8. RACE of operator
2. BROILERS, fryers, other meat-type chickens		Asian or Pacific
3. TURKEYS for slaughter (Do not include breeders.)	901	□ Other — Specify
4. OTHER POULTRY (Enter name/code from below.)	<del></del>	<b>,</b> — <b>y</b>
		926
Poultry name Code		7. SEX of operator
Name/code   Name/code	Name/code	8. SPANISH ORIGIN — is the operator of Spanish
Turkey hens kept Geese 906 for breeding 902 Pigeons or squab 908	All other poultry	origin or descent (Mexican, Puerto Rican, Cuban, or other Spanish)? 1 Yes 2 No
Ducks	Specify 914	SECTION ID PERSON COMPLETING THIS REPORT — Please print
5. Value of POULTRY and POULTRY None	Dollars Cents	Name see Date
PRODUCTS (eggs, etc.) sold from this place 918	<u> </u>	Ares code Number
in 1987?	00	Telephone number
	Dene	

# INFORMATION SHEET 1987 UNITED STATES CENSUS OF AGRICULTURE

#### **Special Reporting Instructions**

#### 1. Who Should Report

WE NEED A REPLY FROM EVERYONE RECEIVING A REPORT FORM, INCLUDING individuals, landlords, tenants, partnerships, corporations, institutions, and THOSE NOT CONDUCTING AGRICULTURAL OPERATIONS. Each case included in the census has a unique Census File Number (CFN). In order to make the census results as complete and accurate as possible, we need to obtain information about every CFN.

#### 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 1987, please report all agricultural activity during the year. Report all land on your census form that you owned or rented. Also, report your 1987 crop and livestock production and 1987 sales.

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 explaining this and return the form 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, i.e., each individual farm, ranch, feedlot, greenhouse, etc., or combination of farms, etc., for which you meintain 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 report(s) in the same envelope with the completed partnership report, where possible, or write a note on the duplicate report, such as, "(Name of partners) has completed a report for the partnership (provide name and CFN of partnership.)"

#### 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. If you do not have records available for all data items, use your best estimate.

#### 8. How to Enter Your Response

Enter your replies in the proper spaces, on the correct lines, and in the units requested, i.e., dollars, bushels, tons, etc. Write any explanation outside the enswer 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 will contain sections and questions which do not apply to you. When this accurs, mark the "None" or "No" box and go on to the next item or section.

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

#### Section 2 -- ACREAGE IN 1987

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 1987 whether in production or not. Include all land that you owned or rented during 1987 even if only for part of the year. Do not include any unrelated residential or commercial land.

Report all land in section 2 in whole acres.

Item 1 — All Land Owned — Report all land owned in 1987 whether held under title, purchased contract or mortgage, 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 Lessed 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 of the Taylor Grazing Act, National Forest, or Indian reservation permit land.

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.

#### INCLUDE in item 3:

- a. Owned land rented to others for cash or a share of crops or livestock
- Land you rented from someone and then subleased to someone else
- 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 1987.

If item 4, Acres in "THIS PLACE" is "O" and:

- You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. All your land was operated by a renter or sharecropper, skip to and complete section 10, and explain briefly, "All land rented out," etc. Mall form in return envelope.
- c. You did not have any agricultural activity on owned or rented land in 1987, complete section 10 and explain briefly, such as "retired," "sold farm," and date. Give name and address of current operator if known and return form.

#### ➤ Section 3 — LAND USE AND IRRIGATION

This section is used to classify the acres in "THIS PLACE" reported in section 2, item 4. Do not include any acres you rented to others reported in section 2, item 3. The sum of the acres entered in various categories should equal total acres in "THIS PLACE."

Land Used for More Than One Purpose — Do not report the same acreage for more than one of the listed purposes. If part or all of your land was used for more than one listed purpose in 1987, report that land only in the first category listed. For example, if you harvested a crop and later used the same land for pasture, report the land in part A, item 1, "Cropland harvested."

**Double Cropping** — When more than one crop was harvested from the same lend in 1987, report that land only ONCE as "Cropland harvested," in part A, item 1 of this section.

Interplanted Crops — If you Interplanted crops, such as cotton in an orchard, report the total land used for both crops only ONCE, as "Cropland harvested," in part A, item 1.

Skip Row Planted Crops — Report the acres that represent the total nonplanted or skipped rows as "Cropland idle," part A, item 3, the acres that represent the planted rows should be reported as "Cropland harvested," part A, item 1.

Irrigation is defined as land watered by artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, purposeful flooding, etc. include acres that receive supplemental, partial, and/or preplant irrigation. Do not report water applied in transplanting tobacco plants, trees, or vegetables as irrigation.

#### ► Section 4 — CROPS

This section provides space for reporting crops harvested during the 1987 crop year from the land shown in section 2, item 4 (Acres in "THIS PLACE") of your report. A few crops are already listed on the form. For these crops, just report acres harvested, quantity harvested, and value of sales. If you produced crops not listed, write the name of the crop and code from the list provided and report the acres harvested, quantity harvested, and the value of sales.

#### DO NOT INCLUDE:

- Any crops grown on land rented or leased TO OTHERS, or worked by others on shares during 1987.
- b. Crops or crop products purchased from others and later sold.

Acres Harvested — Enter the acres harvested in 1987. Round fractions to whole acres except where tenths are requested by "/10" in the reporting box, such as potatoes.

Quantity Harvested — If your unit of measure is different than the unit on the report form, please convert your figure for the quantity harvested to the unit requested. If the harvest was incomplete by December 31, 1987, please report the quantity harvested and the estimated quantity to be harvested.

Gross Value of Crops Sold — Report the value of all crops sold from "THIS PLACE" in 1987, regardless of the year they were harvested or who owned the land. Be sure to report gross value before deducting expenses and taxes. Include Government CCC loans received for "THIS PLACE" in 1987. Include payments received in 1987 from cooperatives or marketing organizations for crops produced on "THIS PLACE."

Item 7 — Vegetables — Report acres of vegetables harvested FOR SALE or commercial processing. Do not include vegetables grown for home use. Report the total acreage of each vegetable crop harvested.

Item 8 — Fruit Orchards, Citrus, Vineyards, and Nut Trees — Report only if total of 20 or more trees and vines, include those for home use as well as those maintained for sale of their production. Acres in trees and vines that have been abandoned should not be included, these acres should be included in section 3, part A, item 3 "Cropland idle."

If crops other than fruit and nut trees and vines were interplanted with trees or vines, report the total acres for the orchard crop in item 8 and the total acres of the interplanted crop in the appropriate item.

Item 9 — Other Crops — To report: (1) find the crop name and the code number from the list under item 9; (2) enter crop name and code in the first two columns of the first available enswer line under item 9; (3) enter the information that is requested in the remaining columns. If you harvested a crop not listed, use the "OTHER" code and specify the crop name. If you need additional space, use a separate sheet of paper to write the crop name(s), acres and quantity harvested, and gross value of crop(s) sold.

## Section 5 — LIVESTOCK, POULTRY, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES

#### Parts A, B, C, and D - LIVESTOCK AND POULTRY

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 2, item 4) on December 31, 1987. Include all owned by you and any kept by you for others. Include animals on unfenced lands, National Forest land, district 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, 1987, or animals on a short-term pasture (such as wheat pasture or crop residue) 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 animals or poultry kept on land rented to others or kept under a share arrangement 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 capsus.

Number Sold — Report all animals and poultry sold or removed from "this place" in 1987, 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.

Dairy Termination Program or "Whole-Herd Dairy Buy-Out Program" — The amount received in 1987 from the Government under the dairy termination program should be included in section 7, item 1. Dairy cattle and calves sold should be reported in section 5, out 4

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 5, part A, item 4a.

#### 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 Seles — Report the total gross value of animals and poultry sold or removed from "this place" in 1987 without deducting production or marketing expenses (cost of feed, cost of livestock purchase, cost of hauling end 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, 1987. Report as "SOLD" animals and poultry kept on a contract or custom basis and removed or sold from the place in 1987. 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 the place.

The person who furnished the housing and labor should report the poultry operation on his/her report form regardless of who owned the birds. Report as sold the number of poultry that were taken or moved from the place in 1987.

## Part E — HORSES, OTHER LIVESTOCK, ANIMAL SPECIALTIES, AND FISH

If you owned BEES — Report all colonies or hives of bees and honey operations conducted by you, regardless of where the hives were kept most of the year. Report hives or colonies, pounds of honey sold, and value of sales.

Other Livestock and Livestock Products — Include in all other livestock and livestock products manure, beeswax, and any other animal products sold from "this place" in 1987. Mink pelts and rabbit pelts should be included in number sold and value of sales, but not in inventory.

Fish and Other Aquaculture Products — Report quantity sold and gross value of sales for each.

# Section 6 — AMOUNT RECEIVED FROM GOVERNMENT CCC LOANS

Item 1 — Report the amount received under the regular or reserve program for commodities placed under CCC loan during 1987. Include amount received even if commodity was redeemed or forfeited prior to December 31, 1987.

Do not include CCC loans received to build crop storage facilities or amount received for storage payments in the reserve program.

#### ► Section 7 - FEDERAL PAYMENTS RECEIVED

Report all payments received from Federal Farm Programs in 1987 regardless of whether payment was made in cash or commodity certificates. Include cash payments in item 1. In item 2, include the value of any certificates held or the value received from sale or redemption of any certificates in 1987.

Federal payments include receipts from Federal programs such as deficiency payments, "Whole-Herd Dairy Buy-Out," support price payments, indemnity programs, disaster payments, paid land diversion, inventory reduction payments, payments received for approved soll and water conservation projects, etc.

# Section 8 — ACRES SET ASIDE, DIVERTED, OR IDLED UNDER FEDERAL ACREAGE REDUCTION PROGRAMS IN 1987

Include in Item 2 all acres in "this place" retired from production and placed, by long-term contract, into the Conservation Reserve Program. Acres placed into the program during and prior to 1987 should be included.

# Section 9 — CHARACTERISTICS AND OCCUPATION OF OPERATOR

This section collects information about the operator of "this place" defined as the individual owner, the operator, the senior partner, or person in charge.

For Family or Individual Operation — Complete this section for the

For Partnership Operations — Answer all items, except item 2, for 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 or ranching" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, ranching, feedlots, broiler feeding, etc.

For Corporation and Other Operations (Cooperatives, Estates, etc.) — Complete section 9 for the person in charge, such as a hired menager, business manager, or 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 basis. If the operator returned to a place previously operated, report the year operations were resumed.

FORM 87-A04(I) (3-31-87)