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 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:

- 1. Family held
 Other than family held
- More than 10 stockholders10 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 Manual¹, are used to promote uniformity and comparability in the presentation of statistical data collected by various agencies.

¹Standard 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

Constabile area	Agricultural places	excluded by farm d in the CRP	uded by farm definition with acres in the CRP Farms with acres in the CRP				
Geographic area	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)	
Arizona	6	611	611	73	78 650	13 988	
MaricopaAll other counties	3 3	171 440	171 440	27 46	25 029 53 621	6 225 7 763	

APPENDIX C. Statistical Methodology

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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	10.7
Land in farmsacres	.2
Value of land and buildings\$1,000	1.5
Market value of agricultural products sold\$1,000	.5
Harvested croplandacres	1.1
Corn for grain or seedacres	2.6
Wheat for grainacres	.2
Livestock and poultry inventory:	
Cattle and calvesnumber	1.2
Hogs and pigsnumber	.4
Hens and pullets of laying agenumber	.9

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:

TVP	SIC	Acres
\$1 to \$999 \$1,000 to \$ 2,499	01 All crops 02 All live- stock	0 to 69 70 or more
\$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		

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.
- 2. 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	7.0
50	4.5
75	3.3
100	2.4
150	1.1
200	.9
300	.8
500	.6
750	.5
1,000	.4
1,500	.3
2,000	.3

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	27.8
50	19.5
75	15.8
100	13.6
150	10.9
200	9.3
300	7.3
500	5.3
750	3.8
1,000	2.9
1,500	1.3
2,000	1.1

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 division. The estimate of total farms in the division 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 division was not adjusted for classification and list duplication errors. Estimates of these errors will be made at the regional rather than the division 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 far	ms	Farms with sales of \$10,000 or more		
Item		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	
Farms		7 669	.1	3 580	.1	
Land in farmsAverage size of farm	acres	36 287 794 4 732	.1	33 690 064 9 411	.1 .4	
Value of land and buildings¹Average per farmAverage per acre	dollars	10 111 212 1 317 765 279	1.7 1.3 2.1	9 124 516 2 550 172 270	1.7 1.2 2.0	
Estimated market value of all machinery and equipment ¹ Average per farm		425 285 55 702	1.3 1.5	369 385 103 469	1.3 1.3	
Farms by size: 1 to 9 acres	farms	2 158	.7	313	1.7	
10 to 49 acres	acres	6 853 1 510	1.0 1.0	896 464	2.2 1.5	
50 to 179 acres	acres	34 036 1 133	1.0 1.1 1.0	11 975 592	1.7	
30 10 173 40103	acres	118 403	1.1	64 407	1.2 1.2	
180 to 499 acres	acres	910 292 285	1.0 1.0	665 216 960	.8 .8 .9 .9	
500 to 999 acres	acres_	678 473 635	1,1 1,1	512 356 619	.9 .9	
1,000 to 1,999 acres	acres	436 600 726	-	342 470 503	_	
2,000 acres or more	acres	844 34 761 856	.2	692 32 568 704	.3 .1	
Total cropiand	farms	4 840	.3	2 593	.3 .1	
Harvested cropland		1 453 852 3 646	.2 .4	1 335 152 2 312	.3	
A source have resolved.	acres	865 817	.1	850 578	t.	
Acres harvested: 1 to 9 acres		1 049	1.2	179	2.0	
10 to 49 acres		3 866 875 20 381	1.5 1.3	722 452	3.2 1.5 1.7	
50 to 99 acres		330	1.4	12 233 301	1.7 1.9 2.0	
100 to 199 acres	acres	23 380	1.9	21 511	2.0	
200 to 499 acres	acres	54 425 564	1.0	53 582 559	1.0 .4	
500 to 999 acres	acres	180 266 267	.4	179 031 267	.4	
1,000 acres or more	acres	182 041 178	-	182 041 178	_	
1,000 40/60 0/ 110/0	acres	401 458	-	401 458	-	
Cropland used only for pasture or grazing	acres	1 551 139 721	.9 1.7	485 69 026	1.1 1.9	
Other cropland	acres	1 828 448 314	.6	1 338 415 548	.5 .2	
Irrigated land		4 241	.4	2 442	.3	
Acres irrigated:	acres	913 841	.1	884 572	.1	
1 to 9 acres	acres	1 334 5 032	1.0	200 830	2.1 3.0	
10 to 49 acres	acres	1 043 24 038	1.1 1.2	476 12 727	1.4 1.6	
50 to 99 acres	acres_	369 25 960	1.8 1.8	314 22 305	1.8 1.9	
100 to 199 acres	farms	442 62 041	1.1	413 58 237	1.1 1.0	
200 to 499 acres		593 188 919	.5	581 185 381	.5 .4	
500 to 999 acres	tarms acres	273 185 362	.4 .2 .1	272 (D)	(Q)	
1,000 acres or more	tarms acres	187 422 489	-	186 (D)	(D)	
Market value of agricultural products sold	\$1,000	1 628 544	(Z)	1 618 201	(Z) .2	
Average per farm	dollars	212 354	.3	452 011	.2	
Value of sales: Less than \$2,500		2 494	.6	-	-	
\$2,500 to \$4,999		2 014	1.1 1.4	-	=	
\$5,000 to \$9,999		2 902 775	1.5 1.4	-	=	
\$10,000 to \$24,999	\$1,000	5 427 757	1.4	757	1.0	
\$25,000 to \$49,999	\$1.000	12 020 583	1.1	12 020 583	1.1	
\$50,000 to \$99,999	\$1.000	20 801 533	1.2	20 801 533	1.2	
\$100,000 or more	\$1,000	37 946 1 707 1 547 434	1.3 (Z) (Z)	37 946 1 707 1 547 434	1.2 1.2 1.2 1.3 (Z) (Z)	
Sales by commodity or commodity group: Crops, including nursery and greenhouse crops	,	2 939	.5	2 124		
	\$1,000	896 681 35 282	.5 (Z) .3 1.3	894 294 35 185	.3 (Z) .3 1.4	
Grains Corn for grain Wheat	\$1,000	35 262 3 412 27 541		3 383 27 503	1.4 1.1	
SoybeansSorghum for grain	\$1,000	516	.1	27 503) (D)	(U)	
Barley Oats	\$1,000	3 243 224	.5	3 221 (D)	(D) .5 (D) 18.4	
Other grains	\$1,000	347	18.4	347	18.4	

See footnotes at end of table.

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

		All farr	ns	Farms with sales of \$10,000 or more			
Item		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	361 558	.1	361 476	.1		
Tobacco	\$1,000 \$1,000	74 244	.2	73 370			
Vegetables, sweet corn, and melonsFruits, nuts, and berries	\$1,000	240 925 111 422	.2 (Z) .3	240 846 110 447	.2 (Z		
Nursery and greenhouse crops	\$1,000	61 053	-	60 853			
Other crops		12 197	(Z)	12 117 1 821	(Z		
Livestock, poultry, and their products	@1 AAA	4 494 731 863	.4 (Z)	723 907	.² (Z		
Poultry and poultry products Dairy products	\$1,000	4 553 168 400	.2 (Z)	4 454 168 385	`. (Z .1		
Cattle and calves	\$1,000	506 565 26 953	.1	501 379	`:]		
Hogs and pigs	\$1,000	9 245	.2 .2	26 781 8 962	.2 .1		
	\$1,000	16 148	.8	13 946	3.		
arms by standard industrial classification: Cash grains (011)	farms	71	4.1	44	4.3		
Field crops, except cash grains (013)	acres	31 518 1 540	2.5	21 126 1 267	3.9 .5		
	acres	1 894 876	.1	1 871 237	.1		
Vegetables and melons (016)	acres	175 (D)	1.6 (D)	155 186 589	1.4		
Fruits and tree nuts (017)		780	1.3	334	1.7		
Horticultural specialties (018)	acres	201 582	.5	105 730 132	.7		
, , , ,	acres	(D)	(D)	39 329	-		
General farms, primarily crop (019)	acres	98 85 313	3.1	48 81 562	2.4		
Livestock, except dairy, poultry, and animal specialties (021)	farms	3 190	.5	1 290	.5		
Dairy farms (024)	acres	32 576 424 142	.1 1.1	31 319 864 139	.1 1.0		
	acres	29 742	1.3	29 511	1.3 3.5		
Poultry and eggs (025)	acres	67 2 420	4.9 6.0	1 247	3.5		
Animal specialties (027)		1 351	1.0	159	2.9		
General farms, primarily livestock and animal specialties (029)	acres farms	155 987 73	.9 3.9	27 439 3	1.6		
	acres	1 080 778	(Z)	6 430	1.1		
arms by type of organization: Individual or family (sole proprietorship)	farms	5 356	.3	1 936	.4		
Partnership	acres	6 170 484 1 369	.3 .3 .8	5 017 187 963	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		
,	acres	4 574 856	.5	4 417 953	.5		
Corporation	acres	724 3 954 445	.9 (Z)	556 3 859 349	 (Z		
Other—cooperative, estate or trust, institutional, etc.		220 21 588 009	(Z) 2.0 (Z)	125 20 395 575	1.7 (Z		
enure of operator:	acies	21 300 009	(2)	20 000 070	_		
Full owners		5 044 23 429 445	.3	1 765 21 824 297	.4.		
Part owners		1 530	(Z)	1 010	.6		
Tenants	acres	10 659 290 1 095	.2	9 991 535 805	.4 (Z .6 .6 .6		
	acres	2 199 059	.6	1 874 232	.7		
Operators by principal occupation: Farming	farme	3 782	.4	2 588	.3		
· ·	acres	19 503 598	.1	18 450 904	.1		
Other	acres	3 887 16 784 196	.4	992 15 239 160	. 8 .1		
Operators by sex:							
Male	acres	6 806 35 235 323	.2	3 344 32 730 009	.2 .1		
Female		863 1 052 471	1.3	236 960 055	1.8 .1		
verage age of operator	acres years	51.5	.3	52.0	.2		
Propland under federal acreage reduction programs:			-	4 000			
Annual commodity acreage adjustment programs	acres	1 045 119 003	.5 .2	1 033 118 713	.4		
Conservation reserve program		73 13 988	2.3 1.5	66 13 317	1.7 .€		
Covernment resuments:	acres	13 900	***	10 017	.`		
Amount received in cash		35 021	.3	34 898	.3		
Value of certificates received	\$1,000	23 013	.2	22 943	.2		
et cash return from agricultural sales1: Net cash return from agricultural sales for the farm unit (see text)	farms	7 673	.3	3 578	.4		
Average per farm	\$1,000	306 975 40 007	1.6 2.9	322 030 90 003	1.5 2.0		
Farms with net gains ²		3 558	.4	2 599			
-	\$1,000 {	345 281	1.1	343 666	1.1		
Farms with net losses	number \$1,000	4 115 38 306	.4 3.4	979 21 636	.S 4.6		
otal farm production expenses ¹		7 673	.3	3 578	.4		
·	\$1,000	1 301 666	.3 3.6	1 276 025 1 078	.5		
Livestock and poultry purchased	\$1,000	2 343 244 484	.6	242 128	4.2 .5 2.6		
Feed for livestock and poultry	farms \$1,000	4 084 208 527	2.2	1 683 204 074	2.6		
Seeds, bulbs, plants, and trees		2 374	3.0	1 801	2.6		
	\$1,000	17 741	1.2	17 584 2 101	1.2 2.1		
Commercial fertilizer	\$1,000	3 075 51 672	2.5 .9	51 188	2.1		

See footnotes at end of table.

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

		All farm	ns	Farms with sales of \$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. Agricultural chemicals	f	0.050	0.5	0.400	0.4		
-	\$1,000	3 253 60 366	2.5 1.4	2 132 59 784	2.1 1.4		
Petroleum products	farms \$1,000	6 896 44 554	.9 1.2	3 479 42 161	.7 1.2		
Electricity	farms \$1,000	4 870 38 289	1.9	2 567 37 102	2.1 1.0		
Hired farm labor	farms	3 582	2.3	2 683	1.8		
Contract labor	\$1,000	207 689 1 728	.7 4.1	206 676 1 269	.7 4.1		
	\$1.000	40 353	1.7	39 824	1.7		
Repair and maintenance	farms \$1,000	6 001 53 723	1.4 1.5	3 172 50 792	1.3 1.5		
Customwork, machine hire, and rental of machinery and equipment	farms	2 488	3.3	1 662	3.3		
Interest	\$1,000	35 038 3 465	2.6 2.6	34 545 2 274	2.6 2.4		
	\$1 000	74 553	1.1	71 476	1.1		
Cash rent	\$1,000	1 780 46 666	3.7 1.9	1 403 46 169	3.4 1.9		
Property taxes	farms	6 788	.9	2 905	1.5		
All other farm production expenses	\$1.000	21 154 7 078	2.6 .9	18 340 3 577	2.9 .4		
All other latin production expenses	\$1,000	156 858	.8	154 181	.8		
Livestock and poultry: Cattle and calves inventory	farme	3 521	4	1 558	4		
•	number	1 110 912	.4	1 071 992	.4 .1		
Beef cows	number	2 497 334 851	.6	1 201 314 998	.5		
Milk cows		476 86 280	.6 .3 1.5 (Z)	262 85 927	.5 .3 1.4 (Z)		
Cattle and calves sold	farms	3 302	.5	1 589	.4		
Hogs and pigs inventory	number	1 009 492 331	.1 2.2	991 912 100	.1 2.8		
Hogs and pigs sold	number farms	135 414	.2 2.5	133 960 89	.1 3.0		
	number	237 623	.2	235 677	.2		
Sheep and lambs inventory	number	456 301 279	1.9 .2 2.0	109 291 583	2.6 .2		
Sheep and lambs sold	number	395 116 165	2.0	93 111 006	2.8 .2		
Hens and pullets of laying age inventory		734 329 318	.3 1.5 .2	144 (D)	2.9 (D)		
Dayley and other month in a shiplene and					(5)		
Broilers and other meat-type chickens sold	number	23 (D)	8.6 (D) .5	(D)	(D)		
Horses and ponies inventory	farms number	3 566 70 550		1 185 53 722	(D) .6 .2		
Selected crops harvested:	1	į					
Corn for grain or seed	farms	166	2.7	105	2.3		
	acres bushels	12 794 1 530 568	1.6 1.5	12 406 1 506 470	1.7 1.6		
Wheat for grain	acres	443 97 407	.8 .2	419 97 092	.6 .1		
	bushels	7 991 708	.1	7 977 629	.1		
Barley for grain		168	1.3	159	1.2		
	acres bushels	14 654 1 365 067	.4 .5	14 505 1 354 329	.4 .5		
Cotton	farms	1 199	.5	1 179	.4		
	acres bales	381 733 1 005 493	.1	381 482 1 005 245	.1		
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, e							
(see text)	farms	1 402	.8	835	.7		
	acres tons, dry	181 319 1 040 321	.3	174 067 1 020 095	.7 .2 .2		
Vegetables harvested for sale (see text)		328	1.2	283	1.0		
	acres	98 138	.1	98 065	.1		
Land in orchards	f 1	1 141	1.0	506	1.2		

¹Data are based on a sample of farms.
²Farms 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 far	ms	Farms with sales of \$10,000 or more		
ltem		Percent change	Standard error of estimate (percent)	Percent change	Standard error of estimate (percent	
Farms		4.6	.5	14.1		
Land in farmsValue of land buildings1:	acres	-3.9	.2	121.3		
Average per farm	dollars	-11.9	1.7	30.9	3.0	
Total cropland		-2.2	.5	10.9		
Harvested cropland	acres	-1.8 -5.0	.3 .5	3.1 10.2	[
Transcotted Grophand	acres	-17.3	.1	-13.8		
rrigated land		-4.4	.5	10.0		
	acres	-16.8	.1	-12.9		
Market value of agricultural products sold	farms \$1,000	4.6 6.7	.4	14.1 9.6	, (Ż	
Crops, including nursery and greenhouse crops	farms	1.4	.6	12.1		
Throntonia and the constructs	\$1,000	11.1	.1 .	13.7		
Livestock, poultry, and their products	\$1.000	1.6	.5	5.6 4.8		
Poultry and poultry products	farms	-40.2	1.6	-7.0	4.9	
	\$1,000	-13.0	.2	-12.7		
Selected farm production expenses1: Livestock and poultry purchased	farms	-15.8	4.1	6.3	6.6	
* * * * * * * * * * * * * * * * * * * *	\$1 000	-2.3	.7	-1.8	4.2	
Feed for livestock and poultry	farms \$1.000	-8.5	2.6	9.4		
Seeds, bulbs, plants, and trees	\$1,000 farms	-12.3 -3.5	4.2	-11.5 14.5	4.	
, , , , , , , , , , , , , , , , , , , ,	\$1,000	29.3	2.4	36.7	2.8	
Commercial fertilizer ²	farms	2.5	3.7	13.5	3.6	
	\$1.000	-14.3	1.0	-11.9	1.*	
Agricultural chemicals ²	farms \$1.000	38.7	5.4 1.6	29.1 2.8	4.3 1,7	
Hired farm labor	farms	2.4	3.5	19.5	3.4	
Interest ³	\$1,000	32.8	1.1 (38.3	j 1.2	
merest*	\$1,000	11.1 -25.6	4.1 1.1	12.7 -24.5	3.8 1.0	
Livestock and poultry inventory:			į			
Cattle and calves	farms number	-7.1	.6	6.1	.6	
Hogs and pigs	farms	-2.5 -39.0	.2 1.4	10.7 ~17.4	2.4	
	number	-15.8	.2	-14.1		
Hens and pullets of laying age	farms number	-34.6 -34.2	1.0	-26.5 (D)	2. ⁻ (D	
Selected crops harvested: Corn for grain or seed	farms	11.4	3.1	81.0	4.3	
Sorghum for grain or seed	acres	-4.6 -68.8	1.5	13.1 -67.3	2.0	
	acres	-72.0	.2	(D)), (D)	
Wheat for grain	acres	-17.8 -27.1	.6 .1	-14.0 -24.1	.6	
Soybeans for beans	farms	_ }	_	_		
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, etc.	acres	-	-	-	-	
(see text)	acres	-14.6 12.2	.8	-8.8 22.9		
Vegetables harvested for sale (see text)	farms	-3.2	1.2	36.7	1.4	
Land in orchards	acres farms	40.5	.1	48.3 25.9	.1 1.7	
Land in Ordinards	acres	-4.8 .5	1.1	25.9 6.6	1.7	

¹Data are based on a sample of farms. ²Data for 1987 include cost of custom applications. ³Data for 1982 do not include imputation for item nonresponse.

Table F. Reliability Estimates of County Totals: 1987

(For meaning of appreviation	Farm		Land in	farms	Average val and buildings	ue of land s per farm ¹	Estimated ma of all machinequipment	nery and	Harvested	cropland	Irriga	ted 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)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Tot (acre		
Apache Cochise Coconino Gila Graham	380 836 294 157 323	.8 .3 .9 .9	5 779 528 2 077 793 5 905 699 1 189 175 1 852 684	(Z) .1 .4 (Z) .1	1 868 852 795 292 3 049 187 1 801 732 1 548 087	.9 12.7 1.5 1.2 4.4	8 243 22 961 8 124 3 522 16 447	11.2 4.0 12.4 3.8 6.7	(D) 42 776 (D) (D) 35 937	(D) .6 (D) (D) 1.1	13 57 49 01 2 74 1 46 37 83	2 .7 0 5.9 5 4.7	
Greeniee La Paz Maricopa Mohave Navajo	102 109 2 334 236 376	1.1 1.3 .3 .7 .8	139 840 226 954 1 391 456 1 906 756 7 687 460	.4 .2 .1 (Z) (Z)	451 078 3 216 670 838 914 953 182 3 091 955	8.2 1.0 18.6 5.1 1.9	3 156 26 699 132 039 7 464 12 300	8.7 2.4 3.1 5.4 4.7	3 507 81 242 269 748 10 130 4 878	7.4 .2 .2 1.1 1.8	4 37 82 34 275 59 12 47 8 86	5 .3 2 .2 9 1.2	
Pima Pinal Santa Cruz Yavapai Yuma	520 730 179 484 609	.5 .4 1.0 .4 .5	3 194 736 1 958 489 346 266 2 358 559 272 399	(Z) .4 .4 .1	913 992 1 837 844 1 276 697 783 282 1 452 113	3.5 2.9 9.7 7.2 3.5	15 526 85 513 3 330 11 671 68 293	5.7 2.7 7.5 7.7 2.9	25 125 186 567 (D) 3 720 186 954	.2 .3 (D) 2.0 .1	27 37 189 69 6 82 7 20 194 45	1 .2 8 1.8 4 1.8	
	Cattle and invento		Hogs and pig	Hogs and pigs inventory		Corn for grain or seed Whea		grain	Soybeans f	eans for beans Mar		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)	Tot: (\$1,000		
Apache Cochise Coconino Gila Graham	57 691 77 788 61 494 31 613 35 648	.5 .4 .8 1.4 1.2	35 10 571 20 (D) 16 170	19.0 1.7 22.4 (D)	2 114 6 330 272 (D) 1 809	.9 .7 23.8 (D) 2.7	(D) 1 122 (D) (D) 1 544	(D) 3.5 (D) (D) .4	-	-	17 59 53 92 15 40 5 29 30 46	0 .2 2 .6 0 1.1	
Greenlee La Paz Maricopa Mohave Navajo	12 262 (D) 210 759 34 773 57 684	2.3 (D) .3 1.1 .5	55 53 15 470 200 80 506	3.1 30.9 .6 19.9 (Z)	757 345 413 127	15.8 - 2.6 - 8.9	561 14 199 29 163 373 124	15.6 - .3 - 14.5	- - -	- - - - -	4 96 67 96 548 78 13 50 29 06	3 .1 9 .1 4 .6	
Pima Pinal Santa Cruz Yavapai Yuma	47 133 268 994 24 895 72 881 (D)	.5 .2 2.3 .5 (D)	276 8 493 60 222 (D)	11.6 .2 24.7 7.1 (D)	(D) 406 - 91	(D) 30.7 - 25.6	2 034 19 332 (D) (D) 28 024	.5 .2 (D) (D) .2	-	- - - - -	56 66 402 55 6 74 19 48 356 15	7 ,1 1 1.5 2 .6	
					Sele	cted farm pro	duction expense	es ¹					
Geographic area		and poultry hased	Co	mmercial fer	tilizer	Hired fa	arm labor	Petro	leum products	Ele	ctricity for the	farm business	
	Total (\$1,000)	standard of esti	mate		Relative ndard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	T-	standar otal of es	elative d error stimate ercent)	Total (\$1,000)	Relative standard error of estimate (percent)	
Apache Cochise Coconino Gila Graham	4 480 6 442 2 544 987 1 537		2.4 8.8 2.5 8.2 7.8	353 1 830 80 34 1 098	5.6 6.8 11.0 17.4 9.5	2 458 5 581 1 657 640 4 670	10.6 7.4 1.8 4.7 9.2	3	733 402 805 428 053	9.2 6.3 7.3 5.2 9.7	350 2 029 72 89 742	4.5 5.0 12.7 5.7 10.0	
Greenlee La Paz Maricopa Mohave Navajo	184 17 44 654 725 1 998		21.9 37.1 2.1 18.2 7.1	116 4 199 15 250 290 196	16.9 3.5 2.0 11.3 8.8	444 14 108 77 735 2 052 4 040	9.8 2.0 .8 3.8	12	264 609 815 673 769	7.9 3.2 1.8 4.9 3.3	105 1 408 15 403 389 515	7.9 .4 1.1 3.8 4.9	
Pima Pinal Santa Cruz Yavapai Yuma	1 816 122 977 1 029 3 467 51 626		10.6 14.7	1 442 10 566 30 123 16 065	4.5 1.7 4.5 15.4	8 961 34 584 1 131 2 588 47 040	1.8 2.0 7.3 13.0 1.4	8 :	354 213 325 183 929	5.8 3.7 5.0 8.6 .9	1 698 10 518 173 350 4 449	3.5 2.9 7.1 7.3 .7	

¹Data are based on a sample of farms.

Table G. Division 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			
(tem	Total number	Relative standard error of estimate (percent)	Total percent	Standard error of percent		
Farmsnumber_	17 142	8.0	12.1	1.0		
Land in farmsacres_	682 441	32.7	.3	.1		
Farms by size: Less than 50 acres	13 433	8.5	26.1	2.2		
	3 708	17.1	4.1	.7		
Harvested cropland farms	7 984	11.3	8.4	1.0		
acres	157 427	22.4	.6	.1		
Farms by value of sales: Less than \$2,500	12 926	8.5	29.4	2.5		
	4 215	16.6	4.3	.7		
	2 869	17.3	9.8	1.7		
	1 347	37.2	2.0	.7		
Market value of agricultural products sold \$1,000	45 847	39.2	.4	.2		
Farms by standard industrial classification: Crops (01)	4 948	10.5	9.5	1.0		
	12 193	9.7	13.7	1.3		
Farms by tenure of operator: Full owners	14 896	8.6	17.4	1.5		
	2 246	14.8	4.0	.6		
Operators by principal occupation: Farming	5 329	15.6	6.8	1.1		
	11 812	8.2	18.9	1.5		
Average age of operatoryears	47.9	(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.

Note 3: Division includes Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

APPENDIX D. Report Form and Information Sheet

DUE BY FEBRUARY 1, 1988						September 30, 198
FORM 87-A0211 U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	only for statisti	sponse to this inquiry is required by BUREAU IS CONFIDENTIAL. It may ical purposes. Your report CANNOT rovides that copies retained in your f	be used for purpo	ses of taxati	ion, investigatio	OUR REPORT TO and may be used on, or regulation
UNITED STATES CENSUS OF AGRICULTURE		lence pertaining to this report, pla				N)
AG CENSUS USA OF AGRICULTURE Floatigompleto 1015 BUREAU OF THE CENSUS		-		8	87-A0211	
forment http://org. 1201 East Tenth Street Jeffersonville, IN 47133						
Note — If your records are not available, reasonable estimates may be used. If you cannot file by February 1, a time extension request may be sent to the above address. Include your 12-character Census File Number (CFN) as shown in your address label in all correspondence to us.						
If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.	N.					
CENSUS USE ONLY 039 040 041 042	Please con	rect errors in name, address, and Zif	Code ENTERs	treet and nur	wher if not show	wa
SECTION ALL ACREAGE IN 1987 Report land owned, rented, or us by you, your spouse, or by the partnership, corporation organization for which you are reporting. Include ALL L REGARDLESS OF LOCATION OR USE — cropland,	sed o, ar AND,	INSTRUCTIONS — Please re Use section 7 to raport ONLY and section 8. DO NOT INCL	port your crop	s in the ap NOT liste	propriate se	ction. 2 through 6
pastureland, rangeland, woodland, idle land, house lots	s, etc.	SECTION 26 Were any of the	following CRO	S harveste	d from "THIS	PLACE"
If the acres you operated in 1987 changed during the year, refer to the INFORMATION SHEET, section 1. None N	umber of acres	s ₂ Non			y harvested	Acres irrigated
1. All land owned	.3	1. Cotton	091	092	Bales	093
2. All land rented or leased FROM OTHERS, including land worked		2. Rice	079	678	Tons	679 O81
by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include leased Federal, State, and railroad	14	3. Barley for grain	078	077	Tons	078
land. (DO NOT include land used on a per-head basis under a grazing permit.) Also complete item 5 below		4. Oats for grain	073	074	Tons	075
3. All land rented or leased TO OTHERS, including land worked on shares by others and land subleased. Also complete item 6 below.		5. Wheat for grain, including durum	087	068	Tons	069
4. Acres in "THIS PLACE" — ADD acres owned (item 1) and acres rented (item 2), then SUBTRACT acres rented TO OTHERS (item 3), and enter the result in this space.	046	seed (Report quantity on a dry shelled-weight basis.).	070	071	Tons Tons,	072
For this census report these ere the acres in "THIS PLACE." If the entry is zero please refer to the INFORMATION SHEET, section 1		or green chop	557	558	green Cwt.	559
5. If you rented land FROM OTHERS (item 2), enter the following information for each		9. Beans, dry edible (Do	554	555	_	556
Name of landlord Mailing address (Include ZIP Code) N	umber of acres	not include limes)	692	693	Cwt.	694
		10. Safflower	719	720	Tons	721
		11. Sugar beets for sugar	097	098	Tons	099
List additional landlords on a separate sheet of paper.		12. Potatoes, Irish	/10		Cwt.	/10
6. If you rented land TO OTHERS (item 3), enter the following information for Name of renter Mailing address (Include ZIP Code) No.	each renter.	SECTIONS Was any DRY H or harvested fro	m "THIS PLAC	E" in 1987?	?	
		include sorghu ss 1 YES — Compi		_	O — Go to sec	
		If cuttings were made for both dr from the same fields, report the a HAY and also under GRASS SILA	y hay and grass sile creage in the appr	ege, haylage, opriate items	under DRY	
List additional renters on a separate sheet of paper. 8. Of the land you rented or leased to others, how many acres did you own?	Acres	1. DRY HAY (If two or more contains acres only once, but report total cuttings.)	acres, report	Acres harvested	Quantity harvested (Report either or green weigh indicated)	irrigated
7. Did you have any grazing permits on a per-head basis? os4 (3 Forest Service	į	a. Alfalfa and alfalfa mixtures hay or dehydrating	tor	103	104	105 ons,
1 ☐ Yes - Mark (X) all boxes which apply	Sec. 3 (BLM)	b. Small grain hay — oats, wi barley, rye, etc	neat,	108	107	108 ons,
2 ☐ No — Go to item 8 (e ☐ Other — Specif	ዃ	c. Other tame dry hay - clov	er, timothy,	109	110 To	0ns.
8. LOCATION OF AGRICULTURAL ACTIVITY FOR "THIS PLACE"		Sudangrass, etc	Γ	112	113	ons, 114
agricultural products raised or produced?		2. GRASS SILAGE, HAYLAG GREEN CHOP (If two or mo were made from the same acre	E, AND re cuttings s, report	115	116	117
b. If you also had agricultural operations in any other county(ies) enter the	58	acres only once, but report total cuttings.) 3. HAY SOLD — Did you see or grass silage in 1987?	al tons from 	118	gr	een
county(es), enter the counties county name(s), etc	59	of hay sold in section 9, item 3)		1 Yes	2 No	<u> </u>

1.	SALE	any VE from " use.)	GETABLE THIS PLA	S, SWE	ET CORN, ! 1987? <i>(Do i</i>	MELONS, not includ	etc., hai le those (rvested FOF grown for	R	"TH					RIES harveste eese grown fo		
Land from which segminates were Market Mar	1		- Com	plete th	is section						YES	-	Complete thi	section			
Access Training Section with regardation servery Section	_	-		-						2 [ОИ	_	Go to section	7			
1. Lond from which weight weight weight with a war proportion of the page of the properties of the proportion of the page of t										From the list below, specified with crop ne	enter c	rop na	me and code	. Report quar	ntity harvested	in unit	
2. From the list below, water the crop name and code for each orce language in 1897. If made that an available does we show settled for the same interest enter the control of the contro							376	!						Opentito	harvestad		
Companies	2. From the list below,	, enter t	the crop na	ame and	code for ea	ch crop h	arvested	in 1987.		Crop flame	Code	Whole	acres Tenth	S]			s Tenths
Crop name	If more than one ve each crop. Report o	getable crops gr	crop was rown unde	harvest r protec	ed from the tion in secti	same acr on 5.	es, repor	t acres for		Strawberries	536	ļ	/1		Lbs.		/10
Tomations	Crop nan	ne		Code	Acres h	arvested		cres irrigate	ed				/1	0			/10
Adaptive			_		_		464		/10				/1	0 1		2	/10
Section 1 1 1 1 1 1 1 1 1 1	Tomatoes			463	-		10	<u> </u>		If more space is needed,	use a se	perete s					
## Annual Programme Code 1/10 1/1	-			-		- i -	1	i			serries *	nous as			(nounde)		
The parameter content of the parameter conte			_	-	 		1	1		Blueberries, tame (pou	inds)		512 .	Other berries	s (pounds) -		
Times spaces a research, care a supporter benefit of plager. Copy plane Copy			_			- 1	11						524				
Corp name Code Space For the Crop grown Corp name Code Space For the Crop grown Code For the Crop grown Co								<u>_</u>									
Second column Second colum	Artichokes (Do not		Collar	ds	4	407 Per	ppers, sw	veet	443	S7 Prev	riously i	reporte	d? (Report fr	uit in section	n 8.)		
Second \$8.5	Asparagus	37	9 Eggpt	ant	4	411 Per 415 Pur 421 Por	ppers, ho mpkins . disher	t	445 449								
Bussels sproats 387 Mosted greens 438 Sweet corn 481 Report quantify harvested in and specified with one name.	Beets	38	3 'Hone 5 I Lima	ydew me beans, d	elons 4	423 Spi 429 ISqi	inach		457	For those crops not i	– listed e	nter th	e crop name	and code fr	om the list be	low.	
Coop name	Brussels sprouts Cabbage, Chinese	38	7 Musta 9 Onion	ard green s, dry .	15	431 Sw 433 Tu	reet corn		461	Report quantity harve	ested in	unit sp	ecified with o	rop name.			
Sweetpottows 438	Cantaloups	39	1 Onior 5 Okra	s, green		435 Tur 437 Wa	rnip greei stermelon	ns	467				acres harvest		ty harvested		Ţ
Allefa seed 542 Lbs.	Cauliflower	39	9 Peas.	green .	:::::::::::::::::::::::::::::::::::::::	441 5			475	Sweetpotatoes and	yams	100	! /		Cwt		/10
butbs, flowers, flower seeds, yeepstable seeds and plants, vegetables under glass or other protection, GROW POR SAILE or "THIS PLACE" in 1987 VES Complete this section Sause feet Acres Tenths Te	The same of the sa			_			USHRO	OMS end		Alfalfa seed		542			Lbs.		
YES	bulbs	, flower	rs, flower	seeds, v	egetable se	eds and p	lants, ve	getables u:	nder	Cowpeas for dry pea	as	584			Cwt		
Area irrigated Area	. *		•	-		ale on "T	HIS PLA	.∪E" in 198	5/(Peas, dry edible		659		1	Cwt	.	
1. Nursery and greenhouse crops irrigated in 1987	l '닏						Area irr	rigated		Sunflower seed		734			Tons		
2. From the list below, enter the crop name and code for each crop grown. Code Square feet Code Square feet Code Square feet Code Code					None	Square			enths	Sorghum for grain or	r seed	082			Tons	:	
Crop name Code Code Code Square feet					_	Ľ.,			/10			1		086			**
Crop name Code Square feet other protection in 1987 Whole series Tenths Dollars Cents	2. From the list below,	, enter t			code for ea	ch crop gr	rown.			green chop (Do not in	nclude	085					
1	Crop pame	Code	under g	lass or			Sa	les in 1987	,					1	3.00	2	
1	Crop riatile	Code	other pro				Do	llars !	Cents		-+			1		2	
In the space is needed, use a separate sheet of paper. If more space is needed, use a separate sheet of paper.					1	1	2	1				+		1		2	
					1	i	2	<u>i</u>	00		use a se	parate s				1	
Transpace is needed, use a separate sheet of paper. Code Crop name Code Event Crop name Code Event Crop name Code Event Crop name Code Event Crop name Event Event Crop name Event Event Crop name Event Eve					3	:	\$!		Bermuda grass seed ((pounds	s)	563	Red clover s	seed (pounds)		671
Bedding plants (Include vegetable plants) 479 Bubbs (Exclude bubb flowering plants) 429 Bubbs (Exclude bubb flowering plants) 429 Bubbs (Exclude bubb flowering plants) 432 Bubbs (Exclude bubbs) 432 Bu		se a sept			Cron na-					Guar (pounds)			617	Rye for grai Sesame (po	in (tons) unds)	<i></i> .	686 752
Cut flowers and cut florist greens 485 Sod harvested 487 Nursery crops - ornamentals, fruit and nut trees, and vines 488 Creenhouse vegetables 500 Creenhouse 500 Creenh	Bedding plants (Include)	vegetab	ie plants)	479	Potted flov	wering pla	nts		710	Hops (pounds) Jojoba harvested (por	unds).		623 626	Soybeans fo Sudangrass	or beans (ton: seed (pound:	s) s)	713
and nut trees, and vines 488 Greenhouse vegetables 503 Mungbeans for beans (pounds) 647 Other crops (pounds) - Specify 752 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 647 Peanus for nuts (pounds) 648 Peanus for nuts (pounds) 658 Peanus fo	Cut flowers and cut flor Nursery crops - orname	ist gree	ns ruit	485	Sod harve	ested			497	Jojoba not harvested (report acres only)			. 527	Vetch seed	(pounds)		755
YES YES Complete this section 2 NO Go to section 9 Total acres Acres irrigated Whole acres Tenths Whole acres Tenths Whole acres Tenths Total acres Acres irrigated Apples 123 Apricots 129 Avocados (Report quantity for Nov. 1986 Avocados (and nut trees, and vine	es		488 707	Greenhous	se vegetab	les		503	Mungbeans for beans	(pound	is)	647	Other crops	(pounds) —	Specify	752
Total acres														" in 1987?			
Section Sect	S8 1 🗌	YES	— Сот	plete thi	is section		-						•-	_			
1. TOTAL ACRES in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees on this place. (Do not include abandoned acres.) 2. From the list at the right, enter the name and code for the fruit trees, grapevines, and nut trees on this place in 1987. Report through Nov. 1987 through Nov. 1987 harvest season) 2. From the list at the right, enter the name and code for the fruit trees, grapevines, and nut trees on this place in 1987. Report through Nov. 1987 harvest season) 2. From the list at the right, enter the name and code for the fruit trees, grapevines, and nut trees on this place in 1987. Report through Nov. 1987 harvest season) 3. NUMBER OF TREES OR VINES OF — Acres in trees and vines of all ages and vines of vines of vines ages of the vines, the vines ages of the vines, the vines ages of vines ages of vines ages of vines ages of vine ages ages of vine ages ages of vine ages ages of vine ages ages of vines ages of vine ages ages of vines ages of vine ages age	2 🗌	NO	— Go to	section	9		+					Ar	oples	123	(Report au	antity harv	ested
2. From the list at the right, enter the name and code for the fruit trees, grapevines, and nut trees on this place in 1987. Report the requested information for each crop even if not harvested because of low prices, damage from hail, frost, etc. NUMBER OF TREES OR VINES OF - Nonbearing age Nonbearing age	1. TOTAL ACRES in be groves, vineyards, an	earing ar	nd nonbear ees on this	ing fruit place. ((orchards, cit	rus or othe	er i		1	122		A	vocados (Repo	rt	for the 19	36 — 87 ha	rvest
Number of Trees or vines of and vines of all ages Nonbearing age Per or vines of all ages Nonbearing age Nonbearing	2. From the list at the rig	ght, ente	er the name	and cod	de for the frui	it trees, gr	apevines,			his place in 1987. Report		t	hrough Nov. 1 harvest seasoi	987 5) 135	Lemons .		. 279
TREES OR VINES OF - and vines of all ages Nonbearing age Bearing age Whole acres Tenths Lbs Tons Boxes Description Dives (Report quantity for Sept. 1987 havests Dives (Report quantity for Sept. 1987 havests Dives (Report quantity for Sept. 1987 havest Dives (Report quantity for Sept. 1988 havest Season Dives (Report quantity in meats) Dives (Report quantity in me	,		NI	JMBER	OF			1		Unit of measure		CH	nerries, tart .	587	Oranges . Tangelos		. 297 . 303
Nonbearing age Bearing age Whole acres Tenths Lbs Tons Boxes Per box Specify 315	Crop name	Code	TREES	OR VINE	S OF —	and v	rines of			Mark one		Fig	gs	165	Tangerines Other citru	s —	. 309
1 2 110 3 4 2 3 5 Nectarines 201 Olives (Report quantity in meats) 321 Mannds (Report qu				ng					veste	Lbs. Tons Boxes	s per	∫ Gr	apes, fresh we	aht 177			
2 /10 3 4 2 3 5 March 1986 through March 1987 harvest season 207 Macadamia nuts 331 2 /10 3 1 2 3 5 Pears 231 Persimmons 237 Persimmons				1		2		3		1 2 3	5	Ne Of	ctarines ives (Report q	201 Jantity	Almonds (
2			_	1		2		3		4	6	f.	or Sept. 1986 March 1987 ha	through rvest			
1 2 1/10 3 4 2 3 5 Fears 231 Fears				1		2	-	3		4	15	s Pe	eason)	207 225	Macadami	nuts	. 333
1 2 3 4 15 15 15 15 15 15 15				1	·	2	! /1	3		4 1	15	Pe	rsimmons	237	Pistachios		. 351
If more space is needed, use a separate sheet of paper.				1		2	_;_	3		4	15	Pre	unes, dry	249	Walnuts, E Other nuts	nglish	357
If more space is needed, use a separate sheet of paper.				1		2		3		4	15	Ot	her noncritus	_	эреспу		. 303
	If more space is needed, us FORM 87-A0211 (9-24-86)	se a sepa	arate sheet o	of paper.						1 1 1 1.							

GROSS VALUE of CROPS SOLD from "THIS PLA se taxes and expenses (Refer to the INFORMATION SF		FORE	SECTION 13: 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 follow from this place in 1987. Include the value of the landlord's a	nd/or contractor	ps sold 's share,	1 YES — Complete this section 2 NO — Go to section 14 INVENTORY
estimating if necessary. Include value of Government CCC lo	Dallara	Cents	DECEMBER 31, 1987 INVENTORY None place Dec. 31, 1987
1. Grains, soybeans and other beans sold in 1987 None a. Corn for grain	773 \$	00	1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)
b. Wheat	774 \$	1 00	a. BEEF COWS — Include beef heifers that bad calved. Beef cows
c. Soybeans	775 \$	00	b. MILK COWS kept for production of milk or
	776 \$	00	cream for sale or home use — Include dry Milk milk cows and milk heifers that had calved
e. Barley	777 \$ 778	00	806 Heifers and
f. Oats	\$ 779	00	c. HEIFERS AND HEIFER CALVES — (Do not include heifer calves heifers that had calved.)
g. Other rice, dry beans, dry peas, safflower, sunflower seed, rye, etc	\$ 780	00	d. STEERS, STEER CALVES, BULLS, AND BULL CALVES
2. Cotton and cottonseed	\$ 782	00	CATTLE AND CALVES SOLD
	\$	00	FROM THIS PLACE IN 1987 Include those fed on this place on a Number sold Gross value of sales
4. Vegetables, sweet corn, and melons— (Do not include Irish potatoes and sweetpotatoes, report them in item 6 below.)	783 S	00	contract or custom basis. Also report as sold cattle moved from this place None in 1987 Dollars ICents
5. Fruits, nuts, and berries — grapes, peaches, apples,	784	1	to a feedlot for further feeding. 808 809
	785	00	2. Calves weighing less than 500 pounds \$ 00
6. Other crops — sugar beets, potatoes, peanuts, etc. (Do not include nursery and greenhouse crops.) —			3. Cattle, including calves weighing 500 pounds or more
Specify	\$	00	a. Of the total cattle sold, how many were
SECTION 10 How were the ACRES in this place USED in 1987	?		FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more
 Copy acres in "THIS PLACE" from section 1, item 4, page 1. NOTE: For items 2 to 5 below, if land was used for more than one p 		Acres	and SOLD for SLAUGHTER?
report it in the FIRST land use listed below that applies. For example, harvested and also pastured, only as "Cropland harvested."	report cropland		DAIRY PRODUCTS SOLD FROM DAIRY PRODUCTS Gross value of sales
2. CROPLAND	None Number	of acres	None Dollars Cents
 a. Cropland harvested — Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus 	787		4. Gross value of sales of DAIRY PRODUCTS from this place in 1987 — Include milk, cream,
groves, vineyards, and nursery and greenhouse crops			butter, etc
b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without additional improvements.			SECTION 12 Did you or anyone else have any HOGS or PIGS on this place in 1987?
c. Cropland used for cover crops, legumes, and soil-	789		1 YES — Complete this section INVENTORY 2 NO — Go to section 15 Number on this
improvement grasses, but NOT harvested and NOT pastured			• DECEMBER 31, 1987 INVENTORY None place Dec. 31, 1987
d. Cropland on Which all crops failed — (Exception: Do not report here land in orcherds and vineyards on which the crop	790		1. HOGS and PIGS of all ages (Total of a and b below)
failed. Such acreage is to be reported in item 2a.)	791		a . HOGS and PIGS used or to be used for BREEDING Breeding
e. Cropland in cultivated summer fallow			b. OTHER HOGS and PIGS Other
f. Cropland idle	794		
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	. 🔲 795		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 etc. — Include any land not reported in items 2 through 4 above			Number Gross value of sales
6. TOTAL ACRES - Add the acres reported in items 2 through !			HOGS AND PIGS SOLD None in 1987 Dollars Cents P32
(Should be the same as item 1 above .) SECTION(1). Was any LAND in this place IRRIGATED at any time	—→ ne in 1987?		3. HOGS and PIGS SOLD from this place in 1987
Irrigated land is all land watered by any artificial or controlled means or ditches, spreader dikes, etc. Include supplemental, partial, and pre	– sprinklers, furrov	ws	4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?
1 YES - Complete this section			SECTION 15 Did you or anyone else have any SHEEP or LAMBS on this place in 1987?
2 NO - Go to section 12	None Number		S15 1 YES — Complete this section
How many acres of harvested land were irrigated? Include land from which hay was cut and land in bearing and	680		2 NO — Go to section 16
nonbearing fruit and nut crops reported in section 10, item 2a 2. How many acres of pastureland, rangeland, and any other	681		Number on this None place Dec. 31, 1987 in 1987
lands not included in item 1 above were irrigated?			1. SHEEP and LAMBS of all ages
Were any ACRES in this place SET ASIDE, DIVERS under FEDERAL acreage reduction programs in 19			a.EWES 1 year old or older
S12 1 YES — Complete this section		1	Number shorn Pounds of wool
2 NO - Go 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?	683		Gross value of sales None Dollars !Cents
2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)?			3. What was the gross value of sales of SHEEP, LAMBS, and WOOL from this place in 1987?

ष	CTION(16) Did you or anyo	ne else have any H OCK, or ANIMAL S						SECTION BY GOVERNMENT CCC LOANS	
	S16	Complete this sec		NO	-		17	Amount received in 1987 from Government CCC loans for — None Dollars Ce Include regular and reserve loans, even if redeemed or forfeited. Base Bas	ents
		INVENTORY	1		Γ_	value of s		a.Corn s	00
		Number on this place		entity sold 1987		ollars	Cents	b. Wheat	00
1.	None . Horses and ponies	Dec. 31, 1987	831		832	oliars		c.Soybeans	00
l	of all ages	ļ	840	Number			00	889	
		839	841	Number	12		i	d. Sorghum, barley, and oats	00
2.	Colonies of bees			Pounds honey	\$		00	e. Cotton	00
}		843	844	Number	B48	ļ	!		00
,	Milk goats	1	845	Gations	(s		00	Payments received for participation in FEDERAL FARM PROGRAMS	
٠.	WIIIK GOOTS	847	848	milk	850			in 1987 (DO NOT INCLUDE CCC loans.) Refer to INFORMATION SHEET, section 19. None Dollars Ce	ents
ļ		{	849	Number Pounds) s		00		00
4.	Angora goats	851	852	moheir	853			2. Value of certificates received — payment-in-kind (PIK)	00
Б.	Other goats			Number	ŀ		00	or commodity certificates\$	00
ľ	.Mules, burros, and	833	834		835			SECTION 202 TYPE OF ORGANIZATION	
	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	l		00	this place in 1987. Refer to the INFORMATION SHEET, section 20.	
R	Rabbits and their	854	855	Maniper	856			FAMILY or INDIVIDUAL operation — (Do not include partnership and corporation.)	
1	pelts		ļ	Number	\$		00	PARTNERSHIP operation — Include family Go to section 22	2
9.	. All other livestock and livestock products	857	858		859			partnerships	1
	Specify		<u> </u>	Number	\$		00	OTHER, such as estate or trust, prison farm, grazing	
10.	. Fish and other aquaculture	Total quantity	SUIG	ss value o]		association, Indian reservation, etc	hen ?
	products (Enter name and code from list below.)	in 1987	— <u></u>	Dollars	Cents	-		Specify	
l	Name Code	ORP	11 2		00			SECTION 21 CORPORATE STRUCTURE (for Incorporated operations only)	
١.	Name	Code	Marne		1	Code		Refer to the INFORMATION SHEET, section 21.	
	Catfish	860	Other fish	n - Specify	٠			1. Is this a family-held corporation?	
L	Trout		Other aqu product:	s Specify		869			
ន	CTION 17 Did you or anyo	ne else have any P CKS, etc., on this p	OULTRY, s	uch as CH	ICKEN	S,		2. Are there more than 10 stockholders?	_
İ	for others on a	contract basis.	1800 111 100	INVENT		inity grown		or person in charge) Refer to the INFORMATION SHEET, section 22.	
	^{\$17} 1 □ YES -	- Complete this se	ection	Numbe this pl	er on	Total nur		1. RESIDENCE — Does the operator (senior partner or	
ł		Go to section 18	None		1987	893		person in charge) live on this place?	,
	HENS and PULLETS of laying PULLETS for laying flock rep		Ц	ļ				2. PRINCIPAL OCCUPATION — At which occupation did the operator spend the majority (50 percent or 928	
	a.PULLETS 3 months old or ol		g age	894	ł	895		more) of his/her worktime in 1987? For partnerships consider all members of the partnership together	her
İ	b.PULLET CHICKS and PULLE	TS under 3 months	sold _	896		(or ranching	
,	(Do not include commercial b BROILERS, fryers, and other			898		899		3. OFF- FARM WORK — How many days did the operator (senior partner or person in charge) work at least 1—49 days	
	including capons and roaste							at a nonfarm job, business, or on someone else's farm for	
4.	TURKEYS a.Turkeys for slaughter (Do:	not include broods 1		900	l	901		pay. (Do not include exchange farmwork.)	
	b.Turkey HENS kept for bree			902		903		5 ☐ 150 — 199 days a ☐ 200 days or more	e
5.	OTHER POULTRY raised in c							4. In what YEAR did the operator (or senior partner) begin	
]	geese, pigeons or squab, phe (Enter poultry name and code for	easants, quail, etc						to operate any part of this place? Year	
ł	Poultry name	Code _						5. AGE of operator (senior partner or person in charge) Years old	
ł	Poultry name	Code _				1		924	
	Name Code 1	Name	Code	, Name		Cod		1	
İ	Ducks	Pigeons or squab. Pheasants		All ot	her poult	912 ry –		2 American Indian	
R	POULTRY HATCHED on this p	place in 1987 and	None	Spe	Numbe	914	-	6. RACE of operator (senior partner or person in charge) Asian or Pacific Islander	
] "	placed or sold — chickens, tur			916	Mainbe			9 🗆 Other – Specity)	
	Specify kind of poultry	-	— 🖳	917				\	
7.	Incubator egg capacity on D	December 31, 198	37 🔲 📗					7. SEX of operator (senior partner or person in charge) 1 Male 2 Fen	male
				ross value					
8.	What was the gross value of spoultry and poultry products (918	Dollars		Cents		8. SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent	_
FDES	etc.) from this place in 1987?] \$			00		(Mexican, Puerto Rican, Cuban, or other Spanish)? 1 Yes 2 No	<u>-</u>

PRODUCTION EXPENSES paid by you and other place in 1987	rs for t	his	SECTION:25 Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATICIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1987?						
Include your best estimates of expenses paid by you, your landlord buyers, and others for production of crops, livestock, and other ag	ricultu	al products	1 YES - Complete this section 2 NO - Go to section 26						
 in 1987. (DO NOT INCLUDE expenses connected with performin others; operation of nonfarm activities, businesses, or services; or expenses not related to the farm business.) 	g custo r house	nwork for hold		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.					
Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep, lambs, goats, horses, chicks, poults.	Vone	Dollars	Cents 00	1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematicide) to control — a. Insects on crops, including hav					
2 . Feed purchased for livestock and poultry — grain,	_	72		a. Insects on crops, including hay					
hay, silage, mixed feeds, concentrates, etc		<u> </u>	00 	c. Diseases in crops and orchards (blights,					
complete, supplement, concentrates, premixes.				smuts, rusts, etc.)					
(Do not include ingredients None Dollars Court purchased separately, such as soybean meal, cottonseed	Cents			d. Weeds, grass, or brush in crops and pasture — Include both pre-emergence and post emergence.					
meal, and urea.)	00	74		of crops or thinning of fruit					
3. Seed cost — for corn, other grains, soybeans, tobacco, cotton, etc. — Include plants and trees purchased		1	00	SIGNOVED MACHINERY AND EQUIPMENT on this place on December 31, 1987 — include only equipment used for agricultural operations in 1986 or 1987.					
4 - Commercial fertilizer purchased — all forms, including rock phosphate and gypsum.		76 I		Value of ALL machinery and equipment on this place, December 31, 1987					
Include cost of custom applications.	니 분	76	00	4 18/had in the anti-material manufacturation of A11 marchiness.					
Agricultural chemicals purchased — Insecticides, herbicides, fungicides, other pesticides, etc. — Include cost of custom applications. (Do not include lime.)			00	1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? — include cars, 1943					
6. Gasoline and other petroleum fuel and oil purchased for the farm business —		77		pumps, motors, irrigation equipment, dairy equipment including inlikers and bulk tanks, livestock feeders, grinding and mixing					
a. Gasoline and gasohol		78	00	equipment, etc					
b. Diesel fuel			00	SELECTED machinery and equipment on this place, December 31, 1987. (Report on this place on MANY were manufac-					
c. Natural gas			00	only if used in 1986 or 1987.) None December 31, 1987 tured in the last 5 years (1983 - 1987)?					
d. LP gas, fuel oil, kerosene, motor oil, grease, etc			00	2. Motortrucks — Include pickups					
7. Electricity for the farm business — (Do not include household expenses.)		,	00	3. Wheel tractors other than garden tractors and motor tillers —					
8. Hired farm and ranch labor — also include employer's cost for social security, workman's compensation, insurance	9	82		a. Less than 40 horsepower (PTO) b. 40 horsepower (PTO) or more 948					
premiums, pension plans, etc. (See INFORMATION SHEET)		! !	00	4. Grain and bean combines, all types					
9. Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc.,	9	83 I		5. Cotton pickers and strippers					
performed on a contract basis by a contractor, crew leader, a cooperative, etc.		! !	00	6. Mower conditioners					
10. Repair and maintenance expenses for the	9	84		7. Pickup balers — Include rectangle and round balers					
upkeep of buildings, motor vehicles, and farm equipment		·	00	SECTION STATEMENT MARKET VALUE OF LAND and S27 BUILDINGS					
11. Customwork, machine hire and rental of machinery and equipment — Include expenditures for	ı	1		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, corn picking,	,	85 I		section 1, items 1, 2, and 3, page 1. None Dollars Cents					
drying, silo filling, spraying, dusting, fertilizing, etc. (Do not include cost of cotton ginning and application of fertilizer and chamicals.)		1	00	1. All land owned					
12. Interest paid on debts - (See INFORMATION SHEET)	_ 8	86		997					
a. Secured by real estate	☐ [9	87	00	2. All land rented or leased FROM OTHERS					
b. Not secured by real estate		1	00	3. All land rented or leased TO OTHERS					
13. Cash rent paid for land and buildings in 1987— (Do not include grazing fees.)		1	00	SECTION 28 INCOME FROM FARM - RELATED SOURCES IN 1987 S28 Report amount received before taxes and expenses.					
14. Property taxes paid — include farm real estate,	,	89		Farm-related income					
machinery, livestock, etc. for the farm business. (Do not include taxes paid by landlords.)		·	00	farmers and others — plowing, planting, spraying,					
15. All other production expenses —Include insurance.				harvesting, preparation of products for market, etc. 992 (If customwork is a separate business, refer to INFORMATION SHEET, section 28) 00					
water, animal health costs, grazing fees, marketing charges, miscellaneous farm supplies, etc. (Do not include depreciation,	9	90 I	1	2. Gross cash rent or share payments received from renting					
household expenses, and expenses not associated with the farm business.)		. !	00	out farmland or payments received from lease or sale of					
SECTION 24 Was any COMMERCIAL FERTILIZER, including	ROCK	PHOSPHATE,	OF	a per-head basis, per-month basis, per-pound basis, etc					
LIME used on this place during 1987? 1 YES — Complete this section 2 No	0 – 1	3o to section 25	,	3. Sales of forest products and Christmas trees — Include maple products, navel stores, firewood, etc					
	Nor	Acres ferti		4. Recreational services, patronage dividends of cooperatives, and other income which is CLOSELY RELATED to the					
Acres of cropland fertilized in 1987 — (Do not include cropland for pastures reported in section 10, item 2b.)	1. □	1		agricultural operation on this place –					
2. Acres of pastureland and rangeland fertilized in 1987 reported in section 10, items 2b and 4	. \square	933		Specify Specify PERSON COMPLETING THIS REPORT — Please print					
None Tons o		Acres lim	ned	Name 999 Date					
3. LIME — tons of lime used and acres on which applied — (Do not include land plaster or gypsum or lime for sanitation.)		935		Telephone number					
FORM 87-A0211 (9-24-86)			Page	<u></u>					

INFORMATION SHEET

1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

I. 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 "0" and:

- a. 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 27 We	re eny of HIS PLA	f the followi CE" in 198	ing CROPS harve	sted from
	None	Acres harvested	Quantity harvested	Acres irrigated
1. Cotton	🗆	091	092 Bales	093
2. Soybeans for bean	s 🗀	088 40	089/,550 Bu.	090 40
3. Wheat for grain	🗆	073 40	1,230 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 X 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.

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

► 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 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 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).

Double 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 SPECIALTIES

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 1, item 4) on December 31, 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 census.

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:

- a. 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

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. 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

- 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.

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

► 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.

► Section 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.

► Section 20 - TYPE OF ORGANIZATION

Use the following definitions to determine the type of organization for your operation:

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 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.

 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.

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

► 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

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

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 who is mainily responsible for the agricultural operations on "this place," not necessarily the person senior in age. If each partner shares equally in the day-to-day management decisions, consider the oldest as the "Senior Partner." For item 2 (Principal Occupation) consider all members of the partnership together. Please include as "farming" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, ranching, feedlots, broiler feeding, etc.

For Corporations and Other Operations (Cooperatives, Estates, etc.) — Complete section 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 produce 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. roduced 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 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 paid 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. 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 Include the the cost of additions to existing buildings.

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 Ilvestock 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 represents 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 $\mathbf{2} - \mathbf{Rental\ Income} - \mathbf{Do\ not\ include\ rental\ income\ from\ nonfarm\ property.}$

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				•				val Expires September 30, 1989
FORM 87-A0400 (3-13-87)	U.S. DEPARTME BUI	ENT OF COMMERCE REAU OF THE CENSUS	NOTICE — Re THE CENSUS only for statist	seponse to this inquiry is req BUREAU IS CONFIDENTIAL licel purposes. Your report C rovides that copies retained	uired by lav L. It may be ANNOT be	v (title 13, U.S seen only by used for purp	 Code). By the same swom Census emploses of taxation, inventor. 	e law YOUR REPORT TO oyees and may be used estigation, or regulation.
	UNITED ST CENSU	TATES		rovides that copies retained denoe pertaining to this re				
AG CENSUS USA	OF AGRICU	LTURE	Г				87-A04	00
Please complete this form and RETURN TO	BUREAU OF THE CENS 1201 East Tenth Street Jeffersonville, IN 47							•
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	our 12-character Census Fi	uest may be sent						
If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.								
CENSUS 035 036 USE 039 040	037	038	Please	correct errors in name, add	Irans and 7	IP Code ENT	ER street and number	r if not shown
SECTION 1				SECTION 4			Litt Street Brie Hallinge	THE TOTAL SHOWN.
 1. At any time during 1987, did Hay or tobacco? Corn, wheat, or other grain 	 Fruit, nut, or ci 	e any: itrus trees; grapevii elons, or berries?	nes?	PART A — CROF (Do not include crops a	PS HARV grown on la	/ESTED fro	om "THIS PLAC	CE" in 1987.
****	• Greenhouse or Yes			1. Hay crops — a. Alfalfa and alfalfa	None	Acres harvested	Quantity harves	ted crops sold Dollars Cents
 At any time during 1987, did Cattle, hogs, sheep, or goa 				mixtures	📙]	108		ons, 782 ry \$ 00
 Chickens or other poultry? Bees? 		v?	1 1 1 1	b. Small grain hay .	[112		ry \$ 100
- beest	Yes 🔲 No			c.Wild hay		109		ry \$ 00
If you answered YES to El	THER of these question	ns. go to SECTION	y 2.	d. Other hay — Specify kind ———			1	ons, \$ 00_
If you answered NO to BO				2.Corn for grain or see	ed 🔲 l	367	068	773 lu. \$ 00
	1987 Report land own r by the partnership, cor			3. Soybeans for beans	_ 6	088	089	775 u. \$ 00
which you are r	reporting, include ALL L	AND. REGARDLES	SS OF	4. Wheat for grain		773	074	774 su. \$ 100_
woodland, idle	USE — cropland, pastuland, house lots, etc.		nber of acres	5. Tobacco — all types		/10	095	781 bs. \$
		043	inoi oi acios	6. Potatoes, Irish -/Do	1	597	098	785
1. All land owned	······································	······		not include those grown for home use.)				wt. \$ 00
 All land rented or leased FRO worked by you on shares, us services, payment of taxes, e and railroad land. (DO NOT in basis under a grazing permit. 	ed rent free, in exchange etc. Include leased Feder nclude land used on a per-	for o44 al, State, -head	N. N	7. All vegetables for sa (Do not include those gre- for home use.)	nie N	one Total a	cres Dollars C	ents 00
 All land rented or leased TO OT shares by others and land subfe 	THERS, including land work eased. Also complete item	ked on 5 below.		Specify kind(s)			/10 /10	
 Acres in "THIS PLACE" and acres rented (item 2), the TO OTHERS (item 3), and e 	then SUBTRACT acres re	ented	48	8. All fruit and nut orch vineyards, and berri	nards, .	one Total a	Ores Quantity herver	sted Dollars Cents
If the entry is zero please refe	er to the Information She	et, section 2		Specify kind(s)				bs.
5. Of the land you rented or leas acres did you own?		None obs	Acres	9. Other crops — For ad Report quantity harvest	ditional crop	es, enter the cro t specified with		bs. n the list below.
6. In what county was the large agricultural products raised of	est value of your or produced?	County name	State	Crop name	Code	Acres harvested	Quantity harvest	ed Gross value of crops sold Dollars Cents
SECTION BY LAND USE and PART A — How were the			100				1	\$ 00
		61	nber of acres	À			1	\$ 00
 Cropland harvested — Inclui were harvested or hay was cut groves, vineyards, and nursen 	ide all land from which crop t, and all land in orchards, o y and greanhouse crops.	787		If more space is needed, use s Crop name Barley for grain (bushels)		Code	Crop name Oats for grain (bushe)	Code
Cropland on which all crops report here land in orchards and v	s failed — (Exception: Do no vineyards on which the cron	ot		Corn for silage or green cho Cotton (bales)	o (tons, gree	m)070	Sorghum for grain-mi Other crops (pounds)	s)
Cropland idle, cropland used or cropland in cultivated sur	d for cover crops, mmer fallow				B PLACE"	in 1987	•	
4. Cropland used only for pas and other pastureland and	d rangeland	red,		From the list below, ent	So	uare feet	Acres in the open in 1987	grown. Sales in 1987
5. All other woodland, waste reported in items 1 throug		10t		Crop name		er glass or v	Mhole acres Tenths	Dollars Cents
PART B - IRRIGATION		None	ber of acres irrigated	If more space is needed, use a		et of parer	/10	00
 How many acres of harveste land from which hay was cut at fruit and nut crops. 		· · · · · · L		Crop name Bedding plants (include year	etable plant:	Code 6	Crop name Potted flowering plan	Code ts
2. How many acres of pasture lands not included in item 1	above were irrigated?	y other		Cut flowers and cut florist g Nursery crops — ornamenta and nut trees, and vines .	reens ils, fruit	485	Follage plants Greenhouse vegetable Other — <i>Specify</i>	
ENALTY FOR FÄILURE TO REP	-Un I					CONTINU	E ON REVERSE SIC	<i>→</i>

SECTION 58 LIVESTOCK and POULTRY				PART E - HORSES, OT	HER LIVESTOC	C. ANIMALS	PECIALTI	ES, and F	ISH
	i	INVENTORY		1	INVENTORY	Total quan			
PART A — CATTLE and CALVES		Number on this place Dec. 31, 19	3 99.7	None	Number on this place Dec. 31, 1987	sold in 19		Dollars	Cents
	None	803		1. Horses and ponies of all ages	630	831 No.	# \$32		00
1. CATTLE and CALVES of all ages			Total	1	130	840	842		1
a. BEEF COWS - Include beef helfers that		804	Beef	2 Calarda adhaa	l {	841 Pot	mber mds		! 00
//BU CEIVEG.	ا لـا	808	cows	2. Colonies of bees	843	B44	16V # 846		100
b. MILK COWS kept for production of milk or cream for sale or home use — Include dry			Milk			Nu	mber lone		i
milk cows and milk helfers that had calved	🗆 (COWS	3. Milk goats	847	mil	k J\$		00
	G.	oss value of sales	7)** ′		mber 850		ļ
None		Dollars Cents	-	4. Angora goats	1	848 Pot mo	nds hair \$		00
2. Value of DAIRY PRODUCTS sold in 1987 -	814	!	7	5. Other livestock, fish,				-	
Include milk, cream, butter, etc	*	00	_i	animal products. (Enter name/code from below.)					1
CATTLE and CALVES SOLD FROM THIS PLACE IN 1987				l.,		1 0	entity \$		00
Include as sold cattle moved from	Numbe			Name ————Code ——— Name/oode	Name/code		tame/code		,
this place to a feedlot for further None feeding.	in 19	987 Dollars	Cents	Mules, burros, donkeys 833 Mink and their pelts 836	Rebbits and their p	elts 854 [†] (Other Ilvesto	ck, fish,	857
3. Calves less than 500 pounds			00	STELLONG GOVERNM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	-		
4 C-mls traded and 500 and 1 mm	810	811	1	Amount received in 1987 and reserve loans, even if re	from Governm	ent CCC los	ns. <i>Includ</i>	e regular	
a. Of ALL cattle sold, how many were	812	813	00	and reserve loans, even if re	deemed or forfel	ted. None	1	ara	Cents
FATTENED on this place on GRAIN or			į	Specify grop(s)			\$	į	00
CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?			00	Significant Payments n	ceived for parti	cipation in F	EDERAL	FARM	
PART B — HOGS and PIGS		INVENTORY	1 00	PROGRAM	3 in 1987 <i>(DO N</i>				
	None	Number on this place Dec. 31, 18				None	Doll 884	ara	Cents
		815		1. Amount received in cash			4	1	00
1. HOGS and PIGS of all ages	. 🗆 l		Totel	Value of certificates rece (PIK) or commodity certificates	ived — payment-	in-kind	685	1	00
	[816		SECTION & Acres in this			D. or IDI	ED unde	
a. HOGS and PIGS used or to be used for breeding			Breeding	FEDERAL a	reage reduction	n programs i	n 1987 _		
,	Number	reold Gross value	of selec					Number of	acres
None	In 19		Cents	1. How many acres were se ANNUAL commodity acr				•••	
2. HOGS and Figs SOLD from this	820	821	1	2. How many acres were ur	• •		· _	883	
place in 1987	822	823	00	RESERVE PROGRAM (10	year, CRP)?		<u> 🔲 </u>		G 843777
3. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?		8	00		O bee solters Risking of the contract of the c		V OF OPE	RATOR	
PART C — SHEEP and LAMBS	INVENT		SOLD	1. RESIDENCE - Does the	•				
	lumber o ce Dec. 3	in this 31, 1987 in 198			· · · · · · · · · · · · · · ·		☐ Yes	2 🗆 N	0
824		825		2. PRINCIPAL OCCUPATION					
1. SHEEP and LAMBS of all ages			***********	occupation did the oper majority (50 percent or	more) of his/her	928	_		_
a. EWES 1 year old or older				worktime in 1987? For pall members of the partners	artnerships conside		Farming or ranci	O1 لباد g bing	ther
2 CHEED and LAMPS CHOPY None 1627		1828			-	929		.	
in 1987	Numbe	Poundal		3. OFF-FARM WORK He operator work at least 4		44 tinia 📗	None		
· · · · · · · · · · · · · · · · · · ·	Gro	oss value of sales	ו ר	place in 1987? — Include business, or on someone els	work at a nonfarm	<i>job,</i> 2 L	1-49	•	
3. What was the gross value of sales of None		Dollare Cente	1	include exchange farmwork	.)		⊒ 50—98 ⊒ 100—1		
SHEEP, LAMBS, and WOOL from this place in 1987?	829	. 00				1 -	150-1 150-1		
PART D POULTRY	l IN	VENTORY	ــــــــــــــــــــــــــــــــــــــ			_	⊒ 200 da		
· Ant w ··· ; event	1	Number on Num		4. In what YEAR did the or	seretor benin to	***			
1. HENS and PULLETS	one De	c. 31, 1987	.557	any part of this place?	sereror peditiro.			Year	
a. HENS and PULLETS of laying age	┌ ****	893				925			
b. PULLETS 3 months old or older not yet of	694	895		5. AGE of operator		924 / [7	Years o	I
laying age for layer replacement	L 896					1 15	☐ White ☐ Negro o	a Black	
o. PULLETS under 3 months old for layer replacement				6. RACE of operator		1	⊒ Negro c		
·	898	899		OF TACE OF OPERATOR			Asian c	r Pacific	,
2. BROILERS, fryers, other meat-type chickens	□ 	901					Islande		
	□∐					(•E	Other -	- Specify	
4. OTHER POULTRY (Enter name/code from below.)	[926			
Poultry name Code	į	}		7. SEX of operator		-	☐ Male	₂□ Fe	male
Name/code Name/code		Name/code		8. SPANISH ORIGIN - Is t		927			
Turkey hens kept Geese for breeding 902 Pigeons or squab	906	Quali	. 912	origin or descent (Mexic	an, Puerto Ricar	i, _	Yes		
Ducks 904 Pheasants	910	Specify	914	Cuban, or other Spanis				2 □ No)
			7	AND THE PERSON CO	MIPLE ING IM	10 REPURI	— r:5855	print	
- 1/1 - 1 DOLUT PRIV 1 PARTITION - 1		es value of sales	 	Name		999 [ate		
5. Value of POULTRY and POULTRY None PRODUCTS (eggs, etc.) sold from this place		Dollars Cents			1 Wyrmhar	999 [ate		
PRODUCTS (eggs, etc.) sold from this place	1			Name Telephone number Area code	Number	999 [Date		

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 renching 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 Then 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.

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 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 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 trustree 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
- 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 screage 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:

- a. 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 a "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 land 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:

- a. 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 answer 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, tem 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 angeland 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 census.

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, part A.

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 4e

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 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.

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, beswax, 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 soil 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 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.

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

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 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:

- 1. Family held
 Other than family held
- More than 10 stockholders
 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 Manual¹, are used to promote uniformity and comparability in the presentation of statistical data collected by various agencies.

¹Standard 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

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

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

Constanting states	Agricultural places	excluded by farm de in the CRP	efinition with acres	Fari	Farms with acres in the CRP				
Geographic area	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)			
Arizona	6	611	611	73	78 650	13 988			
MaricopaAll other counties	3 3	171 440	171 440	27 46	25 029 53 621	6 225 7 763			

APPENDIX C. Statistical Methodology

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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

ltem	Percent of total
Farmsnumber	10.7
Land in farmsacres	.2
Value of land and buildings\$1,000	1.5
Market value of agricultural products sold\$1,000	.5
Harvested croplandacres	1.1
Corn for grain or seedacres	2.6
Wheat for grainacres	.2
Livestock and poultry inventory:	
Cattle and calvesnumber	1.2
Hogs and pigsnumber	.4
Hens and pullets of laying agenumber	.9

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:

TVP	SIC	Acres
\$1 to \$999 \$1,000 to \$ 2,499	01 All crops 02 All live- stock	0 to 69 70 or more
\$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		

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.
- 2. 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	7.0
50	4.5
75	3.3
100	2.4
150	1.1
200	.9
300	.8
500	.6
750	.5
1,000	.4
1,500	.3
2,000	.3

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	27.8
50	19.5
75	15.8
100	13.6
150	10.9
200	9.3
300	7.3
500	5.3
750	3.8
1,000	2.9
1,500	1.3
2,000	1.1

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 division. The estimate of total farms in the division 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 division was not adjusted for classification and list duplication errors. Estimates of these errors will be made at the regional rather than the division 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 inailed 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	rms	Farms with sales of \$10,000 or more		
ltem		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent	
Farms		7 669	.1	3 580	•	
Land in farmsAverage size of farm		36 287 794 4 732	.1	33 690 064 9 411		
Value of land and buildings1		10 111 212	1.7	9 124 516	1.5	
Average per farm		1 317 765 279	1.3	2 550 172 270	1.; 2.0	
Estimated market value of all machinery and equipment ¹ Average per farm	\$1,000	425 285 55 702	1.3 1.5	369 385 103 469	1.3 1.3	
Farms by size:						
1 to 9 acres	acres	2 158 6 853	.7 1.0	313 896	1.7 2.1	
10 to 49 acres	acres	1 510 34 036	1.0 1.1	464 11 975	1.3 1.5	
50 to 179 acres		1 133 118 403	1.0 1.1	592 64 407	1.3 1.3	
180 to 499 acres		910	1.0	665	.1	
500 to 999 acres	acres	292 285 678	1.0 1.1	216 960 512	.9. .9. .9. .9.	
1,000 to 1,999 acres	acres farms	473 635 436	1.1	356 619 342). -	
2,000 acres or more	acres	600 726 844	.2	470 503 692		
	acres	34 761 856	.1	32 568 704	;	
Total cropland	acres	4 840 1 453 852	.3 .2	2 593 1 335 152		
Harvested cropland	acres_	3 646 865 817	.4 .1	2 312 850 578		
Acres harvested: 1 to 9 acres	forms	1 049	1.2	179	2.0	
	acres	3 866 875	1.5	722	3.2 1.5	
10 to 49 acres	acres	20 381	1.3 1.4	452 12 233	1.7	
50 to 99 acres	acres	330 23 380	1.9 1.9	301 21 511	1.9 2.0	
100 to 199 acres	farms acres	383 54 425	1.1 1.0	376 53 582	1.º 1.0	
200 to 499 acres	farms acres	564 180 266	.4	559 559 179 031	1.\ .4 .4	
500 to 999 acres		267 182 041	.4 -	267 182 041	:	
1,000 acres or more	acres farms acres	178 401 458	=	178 401 458		
Cropland used only for pasture or grazing	1	1 551	.9	485	1.1	
Other cropland		139 721 1 828 448 314	1.7 .6 .3	69 026 1 338 415 548	1.9 .5 .2	
Irrigated land	acres farms	4 241	.3	2 442	 3.	
Acres irrigated:	acres	913 841	.1	884 572		
1 to 9 acres	acres	1 334 5 032	1.0	200 830	2. ⁻ 3.0	
10 to 49 acres	acres	1 043 24 038	1.1	476 12 727	1.4 1.6	
50 to 99 acres		369 25 960	1.8 1.8	314 22 305	1.8 1.9	
100 to 199 acres		442	1.1	413	1.1	
200 to 499 acres	acres farms	62 041 593	1.0	58 237 581	1.0 .5	
500 to 999 acres	acres farms	188 919 273	.4 .2 .1	185 381 272	.4	
1,000 acres or more	acres farms	185 362 187	.1	(D) 186	(D	
Market value of agricultural products sold	acres	422 489 1 628 544	- (Z)	(D) I 1 618 201	(D	
Average per farm	dollars_	212 354	3	452 011	(Z .:	
Value of sales: Less than \$2,500		2 494	.6	-		
\$2,500 to \$4,999	\$1,000 farms	2 014 820	1.1 1.4	-		
\$5,000 to \$9,999		2 902 775	1.5 1.4	- -	:	
M40 000 to M04 000	\$1,000	5 427	1.4	757	•	
\$10,000 to \$24,999	\$1,000	757 12 020	1.0 1.1	757 12 020	1.0 1.7	
\$25,000 to \$49,999	\$1.000	583 20 801	1.2 1.2	583 20 801	1.2 1.2	
\$50,000 to \$99,999	\$1.000	533 37 946	1.2 1.3	533 37 946	1.' 1.2 1.3 1.3 (Z (Z	
\$100,000 or more	\$1,000	1 707 1 547 434	(Z) (Z)	1 707 1 547 434	(Z (Z	
Sales by commodity or commodity group: Crops, including nursery and greenhouse crops	farms	2 939	.5	2 124	.2	
Grains	\$1,000	896 681 35 282	.5 (Z) .3 1.3	894 294 35 185	.3 (Z .3 1.4	
Corn for grain	\$1,000	3 412 27 541	1.3	3 383 27 503	1.4	
Soybeans	\$1,000	516	1.1	27 503 (D)		
Sorghum for grain Barley	\$1,000	3 243	.5	3 221	(D (D 18.4	
OatsOther grains		224 347	.9 18.4	(D) 347	18.4	

See footnotes at end of table.

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

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

		All farr	ns	Farms with sales of \$10,000 or more			
Item		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	361 558	.1	361 476	.1		
Tobacco	\$1,000 \$1,000	74 244	.2	73 370			
Vegetables, sweet corn, and melonsFruits, nuts, and berries	\$1,000	240 925 111 422	.2 (Z) .3	240 846 110 447	.2 (Z		
Nursery and greenhouse crops	\$1,000	61 053	-	60 853			
Other crops		12 197	(Z)	12 117 1 821	(Z		
Livestock, poultry, and their products	@1 AAA	4 494 731 863	.4 (Z)	723 907	.² (Z		
Poultry and poultry products Dairy products	\$1,000	4 553 168 400	.2 (Z)	4 454 168 385	`. (Z .1		
Cattle and calves	\$1,000	506 565 26 953	.1	501 379	`:]		
Hogs and pigs	\$1,000	9 245	.2 .2	26 781 8 962	.2 .1		
	\$1,000	16 148	.8	13 946	3.		
arms by standard industrial classification: Cash grains (011)	farms	71	4.1	44	4.3		
Field crops, except cash grains (013)	acres	31 518 1 540	2.5	21 126 1 267	3.9 .5		
	acres	1 894 876	.1	1 871 237	.1		
Vegetables and melons (016)	acres	175 (D)	1.6 (D)	155 186 589	1.4		
Fruits and tree nuts (017)		780	1.3	334	1.7		
Horticultural specialties (018)	acres	201 582	.5	105 730 132	.7		
, , , ,	acres	(D)	(D)	39 329	-		
General farms, primarily crop (019)	acres	98 85 313	3.1	48 81 562	2.4		
Livestock, except dairy, poultry, and animal specialties (021)	farms	3 190	.5	1 290	.5		
Dairy farms (024)	acres	32 576 424 142	.1 1.1	31 319 864 139	.1 1.0		
	acres	29 742	1.3	29 511	1.3 3.5		
Poultry and eggs (025)	acres	67 2 420	4.9 6.0	1 247	3.5		
Animal specialties (027)		1 351	1.0	159	2.9		
General farms, primarily livestock and animal specialties (029)	acres farms	155 987 73	.9 3.9	27 439 3	1.6		
	acres	1 080 778	(Z)	6 430	1.1		
arms by type of organization: Individual or family (sole proprietorship)	farms	5 356	.3	1 936	.4		
Partnership	acres	6 170 484 1 369	.3 .3 .8	5 017 187 963	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		
,	acres	4 574 856	.5	4 417 953	.5		
Corporation	acres	724 3 954 445	.9 (Z)	556 3 859 349	 (Z		
Other—cooperative, estate or trust, institutional, etc.		220 21 588 009	(Z) 2.0 (Z)	125 20 395 575	1.7 (Z		
enure of operator:	acies	21 300 009	(2)	20 000 070	_		
Full owners		5 044 23 429 445	.3	1 765 21 824 297	.4.		
Part owners		1 530	(Z)	1 010	.6		
Tenants	acres	10 659 290 1 095	.2	9 991 535 805	.4 (Z .6 .6 .6		
	acres	2 199 059	.6	1 874 232	.7		
Operators by principal occupation: Farming	farme	3 782	.4	2 588	.3		
· ·	acres	19 503 598	.1	18 450 904	.1		
Other	acres	3 887 16 784 196	.4	992 15 239 160	.8 .1		
Operators by sex:							
Male	acres	6 806 35 235 323	.2	3 344 32 730 009	.2 .1		
Female		863 1 052 471	1.3	236 960 055	1.8 .1		
verage age of operator	acres years	51.5	.3	52.0	.2		
Propland under federal acreage reduction programs:			-	4 000			
Annual commodity acreage adjustment programs	acres	1 045 119 003	.5 .2	1 033 118 713	.4		
Conservation reserve program		73 13 988	2.3 1.5	66 13 317	1.7 .€		
Covernment resuments:	acres	13 900	***	10 017	.`		
Amount received in cash		35 021	.3	34 898	.3		
Value of certificates received	\$1,000	23 013	.2	22 943	.2		
et cash return from agricultural sales1: Net cash return from agricultural sales for the farm unit (see text)	farms	7 673	.3	3 578	.4		
Average per farm	\$1,000	306 975 40 007	1.6 2.9	322 030 90 003	1.5 2.0		
Farms with net gains ²		3 558	.4	2 599			
-	\$1,000 {	345 281	1.1	343 666	1.1		
Farms with net losses	number \$1,000	4 115 38 306	.4 3.4	979 21 636	.S 4.6		
otal farm production expenses1		7 673	.3	3 578	.4		
·	\$1,000	1 301 666	.3 3.6	1 276 025 1 078	.5		
Livestock and poultry purchased	\$1,000	2 343 244 484	.6	242 128	4.2 .5 2.6		
Feed for livestock and poultry	farms \$1,000	4 084 208 527	2.2	1 683 204 074	2.6		
Seeds, bulbs, plants, and trees		2 374	3.0	1 801	2.6		
	\$1,000	17 741	1.2	17 584 2 101	1.2 2.1		
Commercial fertilizer	\$1,000	3 075 51 672	2.5 .9	51 188	2.1		

See footnotes at end of table.

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

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

		All farm	ns	Farms with sales of \$	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. Agricultural chemicals	f	0.050	0.5	0.400	0.4
-	\$1,000	3 253 60 366	2.5 1.4	2 132 59 784	2.1 1.4
Petroleum products	farms \$1,000	6 896 44 554	.9 1.2	3 479 42 161	.7 1.2
Electricity	farms \$1,000	4 870 38 289	1.9	2 567 37 102	2.1 1.0
Hired farm labor	farms	3 582	2.3	2 683	1.8
Contract labor	\$1,000	207 689 1 728	.7 4.1	206 676 1 269	.7 4.1
	\$1.000	40 353	1.7	39 824	1.7
Repair and maintenance	farms \$1,000	6 001 53 723	1.4 1.5	3 172 50 792	1.3 1.5
Customwork, machine hire, and rental of machinery and equipment	farms	2 488	3.3	1 662	3.3
Interest	\$1,000	35 038 3 465	2.6 2.6	34 545 2 274	2.6 2.4
	\$1 000	74 553	1.1	71 476	1.1
Cash rent	\$1,000	1 780 46 666	3.7 1.9	1 403 46 169	3.4 1.9
Property taxes	farms	6 788	.9	2 905	1.5
All other farm production expenses	\$1.000	21 154 7 078	2.6 .9	18 340 3 577	2.9 .4
All other latin production expenses	\$1,000	156 858	.8	154 181	.8
Livestock and poultry: Cattle and calves inventory	farme	3 521	4	1 558	4
•	number	1 110 912	.4	1 071 992	.4 .1
Beef cows	number	2 497 334 851	.6	1 201 314 998	.5
Milk cows		476 86 280	.6 .3 1.5 (Z)	262 85 927	.5 .3 .3 1.4 (Z)
Cattle and calves sold	farms	3 302	.5	1 589	.4
Hogs and pigs inventory	number	1 009 492	.1 2.2	991 912 100	.1 2.8
Hogs and pigs sold	number farms	135 414	.2 2.5	133 960 89	.1 3.0
	number	237 623	.2	235 677	.2
Sheep and lambs inventory	number	456 301 279	1.9 .2 2.0	109 291 583	2.6 .2
Sheep and lambs sold	number	395 116 165	2.0	93 111 006	2.8 .2
Hens and pullets of laying age inventory		734 329 318	.3 1.5 .2	144 (D)	2.9 (D)
Dayley and other month in a shiplene cold					(5)
Broilers and other meat-type chickens sold	number	23 (D)	8.6 (D) .5	(D)	(D)
Horses and ponies inventory	farms number	3 566 70 550		1 185 53 722	(D) .6 .2
Selected crops harvested:	1	į			
Corn for grain or seed	farms	166	2.7	105	2.3
	acres bushels	12 794 1 530 568	1.6 1.5	12 406 1 506 470	1.7 1.6
Wheat for grain	acres	443 97 407	.8 .2	419 97 092	.6 .1
	bushels	7 991 708	.1	7 977 629	.1
Barley for grain		168	1.3	159	1.2
	acres bushels	14 654 1 365 067	.4 .5	14 505 1 354 329	.4 .5
Cotton	farms	1 199	.5	1 179	.4
	acres bales	381 733 1 005 493	.1	381 482 1 005 245	.1
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, e					
(see text)	farms	1 402	.8	835	.7
	acres tons, dry	181 319 1 040 321	.3	174 067 1 020 095	.7 .2 .2
Vegetables harvested for sale (see text)		328	1.2	283	1.0
	acres	98 138	.1	98 065	.1
Land in orchards	f 1	1 141	1.0	506	1.2

¹Data are based on a sample of farms.
²Farms 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

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

		All far	Farms with sales	rms with sales of \$10,000 or more		
ltem		Percent change	Standard error of estimate (percent)	Percent change	Standard error of estimate (percent	
Farms		4.6	.5	14.1		
Land in farmsValue of land buildings1:	acres	-3.9	.2	121.3		
Average per farm	dollars	-11.9	1.7	30.9	3.0	
Total cropland		-2.2	.5	10.9		
Harvested cropland	acres	-1.8 -5.0	.3 .5	3.1 10.2	[
Transcotted Grophand	acres	-17.3	.1	-13.8		
rrigated land		-4.4	.5	10.0		
	acres	-16.8	.1	-12.9		
Market value of agricultural products sold	farms \$1,000	4.6 6.7	.4	14.1 9.6	, (Ż	
Crops, including nursery and greenhouse crops	farms	1.4	.6	12.1		
Throntonia and the constructs	\$1,000	11.1	.1 .	13.7		
Livestock, poultry, and their products	\$1.000	1.6	.5	5.6 4.8		
Poultry and poultry products	farms	-40.2	1.6	-7.0	4.9	
	\$1,000	-13.0	.2	-12.7		
Selected farm production expenses1: Livestock and poultry purchased	farms	-15.8	4.1	6.3	6.6	
* * * * * * * * * * * * * * * * * * * *	\$1 000	-2.3	.7	-1.8	4.2	
Feed for livestock and poultry	farms \$1.000	-8.5	2.6	9.4		
Seeds, bulbs, plants, and trees	\$1,000 farms	-12.3 -3.5	4.2	-11.5 14.5	4.	
, , , , , , , , , , , , , , , , , , , ,	\$1,000	29.3	2.4	36.7	2.8	
Commercial fertilizer ²	farms	2.5	3.7	13.5	3.6	
	\$1.000	-14.3	1.0	-11.9	1.*	
Agricultural chemicals ²	farms \$1.000	38.7	5.4 1.6	29.1 2.8	4.3 1,7	
Hired farm labor	farms	2.4	3.5	19.5	3.4	
Interest ³	\$1,000	32.8	1.1 (38.3	j 1.2	
merest*	\$1,000	11.1 -25.6	4.1 1.1	12.7 -24.5	3.8 1.0	
Livestock and poultry inventory:			į			
Cattle and calves	farms number	-7.1	.6	6.1	.6	
Hogs and pigs	farms	-2.5 -39.0	.2 1.4	10.7 ~17.4	2.4	
	number	-15.8	.2	-14.1		
Hens and pullets of laying age	farms number	-34.6 -34.2	1.0	-26.5 (D)	2. ⁻ (D	
Selected crops harvested: Corn for grain or seed	farms	11.4	3.1	81.0	4.3	
Sorghum for grain or seed	acres	-4.6 -68.8	1.5	13.1 -67.3	2.0	
	acres	-72.0	.2	(D)), (D	
Wheat for grain	acres	-17.8 -27.1	.6 .1	-14.0 -24.1	.6	
Soybeans for beans	farms	_ }	_	_		
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, etc.	acres	-	-	-	-	
(see text)	acres	-14.6 12.2	.8	-8.8 22.9		
Vegetables harvested for sale (see text)	farms	-3.2	1.2	36.7	1.4	
Land in orchards	acres farms	40.5	.1	48.3 25.9	.1 1.7	
Land in Ordinards	acres	-4.8 .5	1.1	25.9 6.6	1.7	

¹Data are based on a sample of farms. ²Data for 1987 include cost of custom applications. ³Data for 1982 do not include imputation for item nonresponse.

Table F. Reliability Estimates of County Totals: 1987

[For meaning of abbreviation	[For meaning of abbreviations and symbols, see introductory text]												
	Farm	s	Land in	farms	Average val and buildings		Estimated ma of all machi equipm	nery and	Harvested	cropland	Irriga	ted 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)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Tota (acres		
Apache Cochise Coconino Gila Graham	380 836 294 157 323	.8 .3 .9 .9	5 779 528 2 077 793 5 905 699 1 189 175 1 852 684	(Z) .1 .4 (Z) .1	1 868 852 795 292 3 049 187 1 801 732 1 548 087	.9 12.7 1.5 1.2 4.4	8 243 22 961 8 124 3 522 16 447	11.2 4.0 12.4 3.8 6.7	(D) 42 776 (D) (D) 35 937	(D) .6 (D) (D) 1.1	13 57 49 01 2 74 1 46 37 83	2 .7 0 5.9 5 4.7	
Greeniee La Paz Maricopa Mohave Navajo	102 109 2 334 236 376	1.1 1.3 .3 .7 .8	139 840 226 954 1 391 456 1 906 756 7 687 460	.4 .2 .1 (Z) (Z)	451 078 3 216 670 838 914 953 182 3 091 955	8.2 1.0 18.6 5.1 1.9	3 156 26 699 132 039 7 464 12 300	8.7 2.4 3.1 5.4 4.7	3 507 81 242 269 748 10 130 4 878	7.4 .2 .2 1.1 1.8	4 37 82 34 275 59 12 47 8 86	5 .3 2 .2 9 1.2	
Pima Pinal Santa Cruz Yavapai Yuma	520 730 179 484 609	.5 .4 1.0 .4 .5	3 194 736 1 958 489 346 266 2 358 559 272 399	(Z) .4 .4 .1	913 992 1 837 844 1 276 697 783 282 1 452 113	3.5 2.9 9.7 7.2 3.5	15 526 85 513 3 330 11 671 68 293	5.7 2.7 7.5 7.7 2.9	25 125 186 567 (D) 3 720 186 954	.2 .3 (D) 2.0 .1	27 37 189 69 6 82 7 20 194 45	1 .2 8 1.8 4 1.8	
	Cattle and invento		Hogs and pig	ogs and pigs inventory		Corn for grain or seed		Wheat for grain Son		Soybeans for 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)	Tota (\$1,000		
Apache Cochise Coconino Gila Graham	57 691 77 788 61 494 31 613 35 648	.5 .4 .8 1.4 1.2	35 10 571 20 (D) 16 170	19.0 1.7 22.4 (D)	2 114 6 330 272 (D) 1 809	.9 .7 23.8 (D) 2.7	(D) 1 122 (D) (D) 1 544	(D) 3.5 (D) (D)	- - - -	- - - -	17 59 53 92 15 40 5 29 30 46	0 .2 2 .6 0 1.1	
Greenlee La Paz Maricopa Mohave Navajo	12 262 (D) 210 759 34 773 57 684	2.3 (D) .3 1.1 .5	55 53 15 470 200 80 506	3.1 30.9 .6 19.9 (Z)	757 345 413 - 127	15.8 - 2.6 - 8.9	561 14 199 29 163 373 124	15.6 - .3 - 14.5	- - - -	- - - -	4 96 67 96 548 78 13 50 29 06	3 .1 9 .1 4 .6	
Pima Pinal Santa Cruz Yavapai Yuma	47 133 268 994 24 895 72 881 (D)	.5 .2 2.3 .5 (D)	276 8 493 60 222 (D)	11.6 .2 24.7 7.1 (D)	(D) 406 - 91 -	(D) 30.7 - 25.6	2 034 19 332 (D) (D) 28 024	.5 .2 (D) (D) .2	- - - - -	- - - - -	56 66 402 55 6 74 19 48 356 15	7 .1 1 1.5 2 .6	
					Sele	cted farm pro	duction expense	9S ¹					
Geographic area		and poultry hased	C	ommercial fer	tilizer	Hired fa	arm labor Petro		Petroleum products		ctricity for the	farm business	
	Total (\$1,000)	standard	mate		Relative ndard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	[standar otal of es	telative d error stimate ercent)	Total (\$1,000)	Relative standard error of estimate (percent)	
Apache Cochise Coconino Gila Graham	4 480 6 442 2 544 987 1 537		2.4 8.8 2.5 8.2 7.8	353 1 830 80 34 1 098	5.6 6.8 11.0 17.4 9.5	2 458 5 581 1 657 640 4 670	10.6 7.4 1.8 4.7 9.2	3	733 402 805 428 053	9.2 6.3 7.3 5.2 9.7	350 2 029 72 89 742	4.5 5.0 12.7 5.7 10.0	
Greenlee La Paz Maricopa Mohave Navajo	184 17 44 654 725 1 998		21.9 37.1 2.1 18.2 7.1	116 4 199 15 250 290 196	16.9 3.5 2.0 11.3 8.8	444 14 108 77 735 2 052 4 040	9.8 2.0 .8 3.8	12	264 609 815 673 769	7.9 3.2 1.8 4.9 3.3	105 1 408 15 403 389 515	7.9 .4 1.1 3.8 4.9	
Pima Pinal Santa Cruz Yavapai Yuma	1 816 122 977 1 029 3 467 51 626		10.6 14.7	1 442 10 566 30 123 16 065	4.5 1.7 4.5 15.4	8 961 34 584 1 131 2 588 47 040	1.8 2.0 7.3 13.0 1.4	8	354 213 325 183 929	5.8 3.7 5.0 8.6 .9	1 698 10 518 173 350 4 449	3.5 2.9 7.1 7.3 .7	

¹Data are based on a sample of farms.

Table G. Division 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			
(tem	Total number	Relative standard error of estimate (percent)	Total percent	Standard error of percent		
Farmsnumber_	17 142	8.0	12.1	1.0		
Land in farmsacres_	682 441	32.7	.3	.1		
Farms by size: Less than 50 acres	13 433	8.5	26.1	2.2		
	3 708	17.1	4.1	.7		
Harvested cropland farms	7 984	11.3	8.4	1.0		
acres	157 427	22.4	.6	.1		
Farms by value of sales: Less than \$2,500	12 926	8.5	29.4	2.5		
	4 215	16.6	4.3	.7		
	2 869	17.3	9.8	1.7		
	1 347	37.2	2.0	.7		
Market value of agricultural products sold \$1,000	45 847	39.2	.4	.2		
Farms by standard industrial classification: Crops (01)	4 948	10.5	9.5	1.0		
	12 193	9.7	13.7	1.3		
Farms by tenure of operator: Full owners	14 896	8.6	17.4	1.5		
	2 246	14.8	4.0	.6		
Operators by principal occupation: Farming	5 329	15.6	6.8	1.1		
	11 812	8.2	18.9	1.5		
Average age of operatoryears	47.9	(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.

Note 3: Division includes Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

APPENDIX D. Report Form and Information Sheet

DUE BY FEBRUARY 1, 1988									34: Approval Expire		
FORM 87-A0211 (9-24-86)	U.S. D	EPARTMENT OF CO BUREAU OF T	OMMERCE HE CENSUS	NOTICE — R THE CENSUS only for statis	esponse to this inquiry is required BUREAU IS CONFIDENTIAL. It i tical purposes. Your report CANN	by la may b	w (title 13, U.S e seen only by e used for pure	6. Code). By 1 sworn Cens oses of taxat	the same law Ye us employees a tion, investigati	OUR R and m on, or	EPORT TO ay be used regulation
	CI	D STATE NSUS RICULTU		The law also p	rovides that coples retained in you dence pertaining to this report	our file	s are immune	from legal pro	cess.		
AG CENSUS USA				↓ ⊢	=				87-A0211		
Please complete this a torm and RETURN TO	BUREAU OF TI 1201 East Tent Jeffersonville,	h Street							·		
Note — If your records are not used. If you cannot file by Febr sent to the above address. Number (CFN) as shown in you us.	uary 1, a time e nclude your 12	xtension request 2-character Cen	t may be isus File								
If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report. 036 036 036	J037	-									
USE 039 040	041	042		Please co	rrect errors in name, address, and	d ZIP (Code. ENTER:	street and nu	mber if not sho	wn.	
SECTION 15 ACREAGE IN by you, your sporganization for REGARDLESS C	ouse, or by the which you are OF LOCATION (partnership, co reporting. Inclu DR USE — crop	rporatio ide ALL I land,	ised n, ar LAND,	INSTRUCTIONS — Pleas Use section 7 to report OI and section 8. DO NOT IN	e rep NLY 1 ICLU	ort your cro hose CROP DE crops gr	ps in the ap S NOT liste own on lan	opropriate se ed in sections ed rented to c	ction s 2 th other:	rough 6 s.
pastureland, rar	-		nouse lo	ts, etc.	in 1987?	f the f		PS harveste	ed from "THIS	r	
refer to the INFORMATION S	SHEET, section	1.		Number of acres	S2	None	Acres harvested		y harvested	ir	Acres rigated
1. All land owned			. 🗆 📗		1. Cotton		677	678	Bales	093 679	
2. All land rented or leased FROM					2. Rice		079	080	Tons	081	
by you on shares, used rent fre payment of taxes, etc. Include	leased Federal, S	itate, and railroad	ı o	44	3. Barley for grain		078	077	Tons	078	
land. (DO NOT include land use grazing permit.) Also complete			. 🗆 📗	46	4. Oats for grain		073	074	Tons	075	
3. All land rented or leased TO OT shares by others and land suble				40	5. Wheat for grain, including durum		067	068	Tons	069	
4. Acres in "THIS PLACE" and acres rented (item 2), ti	nen SUBTRACT	acres rented		046	6. Corn (field) for grain or seed (Report quantity on a dry shelled-weight basis.).		070	071	Tons	072	
TO OTHERS (item 3), and e			<u>\</u>		7. Corn (field) for silage or green chop	_	557	558	Tons, green	559	
If the entry is zero please refe 5. If you rented land FROM OTHERS					8. Beans, dry lima	Ц	554	555	Cwt.	556	
Name of landlord		ss (Include ZIP C		Number of acres	not include limas)		692	693	Cwt.	694	
					10.Safflower			720	Tons	721	
 					11. Sugar beets for sugar		719		Tons		
List additional landlords on a separa	te sheet of paper.				12.Potatoes, Irish		097	098 D	Cwt.	099	/10
6. If you rented land TO OTHERS Name of renter		e following inform ss <i>(Include ZIP C</i>		reach renter. Number of acres	or harvested	d fron ghum emple	n "THIS PLA(-sudan cross te this section	E" in 1987 es and hay c 2	i ut from pastu. 10 — Go to se	ros.	
					from the same fields, report HAY and also under GRASS			ropriate items nd GREEN CH			
a. Of the land you rented or lea acres did you own?	sed to others, ho		063	Acres	DRY HAY (If two or money hay were made from the seacres only once, but report cuttings.)	me ac	res. report	Acres harvested	Quantity harvested (Report either or green weigh indicated)	d dry	Acres irrigated
7. Did you have any grazing permits	on a per-head bas	is? (3 D Forest	Service		a. Alfalfa and alfalfa mixt hay or dehydrating			103	104 T	ons,	105
1 Yes – Mark (X) all boxes	which apply		Grazing	Sec. 3 (BLM)	b. Small grain hay - oats barley, rye, etc	s, who	eat,	108		ons, ry	108
2 No - Go to item 8			— Speci	f _Y	c. Other tame dry hay — Sudangrass, etc			109	d	ons, ry	111
8. LOCATION OF AGRICULTURAL a. In what county was the	L ACTIVITY FOR	"THIS PLACE"			d. Wild hay			112	113 T	ons. ry	174
largest value of your	Principal county	ounty name	٥	Number of acres	2. GRASS SILAGE, HAYL GREEN CHOP (If two of were made from the same acres only once, but report	r more acres, t total	cuttings , report tons from	115	116 T	ons,	117
	Other counties		1	58	all cuttings.) 3. HAY SOLD — Did yo or grass silage in 198 of hay sold in section 9, item	 u sel 7? <i>(Re</i>	any hay	118 1 🔲 Ye:		<u>reen </u> o	
PENALTY FOR FAILURE TO REP.	ORT				1,						

SAL		"THIS PLA		ET CORN, M 1987? <i>(Do no</i>				3	"тн	e any S IIS PLA	TRAW! CE" in	BERRIE 1987?	S or OT Do not	HER BERRIES harves include these grown	ted FOR SA for home us	LE from e.)
_	_	- Com	piete th	is section					s6 1 [YES	_	Comple	te this :	section		
1 =	NO	— Go to	•							ОИ		Go to se				
				Acre Whole acres		-	res irrigate	ed enths	From the list below,	enter ci	rop na	me and	code.	Report quantity harvest	ed in unit	
1. Land from which where the harvested in 198				375		376	c acres I{	/10	Crop name	Code	Acre	es harve	sted	Quantity havened		пigated
2. From the list below	v, enter	the crop na	ame and	code for eacl	h crop ha	arvested in	in 1987.		Стор пате	Code	Whole	e acres	Tenths	Quantity harvested	Whole acre	Tenths
If more than one v each crop. Report	regetable	e crop was	harvest	ted from the s	ame acre	es, report	acres for		Strawberries	536		1	/10	Lbs		/10
Crop na	ime		Code	Acres ha	rvested		res irrigated	d				i	/10	1	2	1 /10
Lettuce and romaine	+		427		_ /1	10 428		/10				!	/10	1	2	/10
Tomatoes			463	-		10 464		/10	If more space is needed,	. use a se,	parate s	sheet of p			•	., ,,0
-			-	1	−i−	10	<u> </u>	/10	Crop name	sore! - ·		Cod		Crop name		Code
<u> </u>			-			10	i	/10	Blackberries and dewb Blueberries, tame (pour Roysenberries, (pound)	unds)		512		aspberries (pounds) - ther berries (pounds) - Specify		
· · · · · · · · · · · · · · · · · · ·		_	 		/1	11	- 1	/10	Boysenberries (pounds Currants (pounds)					· · · · · · · · · · · · · · · · · · ·		
If more space is needed,	use a sep	parate sheet	of paper.		1 /1	10	1	/10	SECTION 7/ Wer	e any O	THER	CROPS	harvest	ed from "THIS PLAC	E" in 1987	– smali
Crop name Artichokes (Do not		ode Crop		40		op name	eet	Code 443	grai	ns, field	seeds	, dry pea	es, suni	lower seed, hops, or o tin section 8.)	omer crops	not
include Jerusalem) . Asparagus	37	77 Cucur	mbers ar	nd pickles 41	11 Per	ppers, hot		445	1 5	YES	_	Comple	te this :			
Beans, snap (bush and Beets	pole) 38	B1 Garlic B3 Hone	; vdew me		23 Sni	inach		457	2	□ NO	_	Go to se	ction 8			
Broccoli	38	85 Lima i 87 Musta	beans, g ard greer	reen 42	29 Squ 31 Sw	uash veet corn .		459	For those crops not l Report quantity harve	listed er ested in	nter th unit sp	e crop r	name ai	nd code from the list op name.	below.	
Cabbage, Chinese Cabbage, head	38	B9 Onion 91 , Onion	ns, dry . ns, green		33 Tur 35 , Tur	rnips rnip green:		465 467	Crop name			Acres ha		Quantity harveste		irrigated
Cantaloups	39	95 l Okra 97 i Parsle			37 IWa 39 Dth	atermelons her vegeta	s ables —	473	Sweetpotatoes and	yams	100		1 /10	101	102	/10
Cauliflower Celery	39 40	99 ' Peas.	green .		+1 ' S	pecify		475	Alfalfa seed		542			543	544	
SECTION 51 Wer	e any NI	URSERY at	nd GRE	ENHOUSE CF	ROPS, M	IUSHROC	OMS, sod,	\neg						585	586	
				regetable see: IWN FOR SAL					Cowpeas for dry per		584			660 Cv	661	-
		— Com							Peas, dry edible		659		··-	735		
		- Go to		6		Area irriç	<u> </u>		Sunflower seed		734			To	ns	
1. Nursery and greer	house	rone inde-	ted in 11	None 987 7 4	Square 177		78	enths	Sorghum for grain or	rseed	082			083 To		
		-		— L				/10	Sorghum for silage of		T			086	087	
2. From the list below	v, enter					own.			green chop (Do not in sorghum-sudan crosse	nclude	085			To gre		
Crop name	Code	Square under g	lass or	Acres in the		Sale	es in 1987	. [J Judan 610386					1	2	
огор наше	Code	other pro	otection	Whole acres		Doll	lars In	Cents		-+	-			1	2	
	1			1	/10	2		00			+			1	2	
	1			1	/10	2	i	00	If more space is needed,	use a ser	parate s	heet of n	врег.	L		
		1		1	/10	2	-	00	Crop name			Code	e C	rop name	e)	Code
If more space is needed,	use a sep			<u>i</u>	/10	*			Bermuda grass seed (Guar (pounds) Herbs (pounds)			617	', R	ed clover seed (pound ye for grain (tons)		686
Crop name Bedding plants (Include	vegetal	ble plants)	Code 479	Crop name Potted flows	etina nles	nts		Code 710	Herbs (pounds) Hops (pounds) Jojoba harvested (po	undel		623	1 5	esame (pounds) bybeans for beans (to udangrass seed (poun	ns)	088
Bulbs (Exclude bulb flo Cut flowers and cut flo	wering porist gree	olants) ens	482 (Mushrooms Sod harves	sted			494 497	(report acres only)			527	l S	udangrass seed (pour ugar beets for seed (po etch seed (pounds)	ounds)	716
Nursery crops - ornan and nut trees, and vi	nentals, i nes	fruit	488	Vegetable a Greenhouse	nd flower vegetab	r seeds les		500 503	Ladino clover seed (p Mungbeans for beans	oounds) s (pound	 Is)	632	I W	etch seed (pounds) . 'ild rice (tons) ther crops (pounds) —		764
Foliage plants			707	Other — Sp	pecify			506	Peanuts for nuts (pou	ınds)	<i>.</i> .	656	1		,	
SECTION 8 Was					nuii TR	ces, inch	vuing GRA	ar EVI	nzo, CITRUS, and NU	I IREE:	3, ON "	ı miS Pi	LACE"	in 198/?		
1 📖		— Comj — Go to				Γ	Total a	acres	Acres irrigate	be	No	oncitrus	crops	Code Citrus c	rops	Code
					ie or oth		Whole acres		nths Whole acres Te		Αŗ	pples		123 (Report	quantity han 986 – 87 ha	ested
1. TOTAL ACRES in I groves, vineyards, a	ind nut t	rees on this	place. (C	Do not include ab	bandoned a	acres.)	21		/10	/10	A	vocados quantity i	(Report for Nov.	season)		
2. From the list at the the requested inform										t	t t	hrough h harvest s	lov. 19: eason)	Lemons	iit	279 285
		NI	UMBER	OF		in trees	T - 3-		Unit of measure	•	CH	nerries, t	art	587 Oranges	· · · · · · · · · · · · · · · · · · ·	297
Crop name	Code	TREES	OR VINE	S OF —	and v	rines of		uantity	Mark one	Lbs.	., Fiç	gs		165 Tangerin	es	. 309
	-	Nonbeari age	ng	Bearing w	Vhole acre	ages es Tenth		rveste	d Lbs. Tons Boxe		Gr.	apes, fres	sh weigt	t . 177 Specify	<i>,</i>	
		, <u>J</u> -	1	2	3011	/10	3		1 2 3	5	l N∈	wiffuit . ectarines ives (Rep		201 Almonds	(Report	Code
	1-1		1	2		/10	3		1 2 3	. 6	1	or Sept. March 19	1986 th 187 harv	ntity rough quantity rest _	in meats)	
	+-		1	2		/10	3		1 2 3 4	15	√ s	eason)		207 (Heport of L 225 Macadar	<i>quantity in sl</i> nia nuts	. 333
-	+			2			3			15	Pe	ars	. .	231 Pecans 237 Pistachio		. 339
	+		1	2		/10	3		1 2 3	15	PI.	ums, fres	h	243 Walnuts	. English	. 357
	1	L	1	2		/10	3		1 2 3 3	5	Po	megrana her nonc	ites		ts — ′	. 363
If more space is needed,	use a sor	arate sheet	of paper			/10	0]		1 🗆 2 🗆 3 🗀	<u> </u>	ع ز	Specify		261		ļ
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GROSS VALUE of CROPS SOLD from "THIS PLACE" in 1987, BEFOR taxes and expenses (Refer to the INFORMATION SHEET, section 9.)	SECTION 18: 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 from this place in 1987. Include the value of the landlord's and/or contractor's sestimating if necessary. Include value of Government CCC loans.	hare, 2 NO — Go to section 14 INVENTORY
Dollars	Number on this place Dec. 31, 1987 INVENTORY None place Dec. 31, 1987
a. Corn for grain	00 1. CATTLE AND CALVES of all ages (Total of a, b, c, and d below)
b. Wheat	00 a.BEEF COWS — Include beef heifers that had calved. Beef cows
c. Soybeans	00 b. MILK COWS kept for production of milk or
d. Sorghum for grain	00 cream for sale or home use — Include dry Milk cows and milk heifers that had calved
e. Barley	00 Heifers and c. HEIFERS AND HEIFER CALVES — (Do not include heifer
f. Oats \$ 779	00 heifers that had calved.)
g. Other rice, dry beans, dry peas, safflower, sunflower seed, rye, etc. \$	00 d. STEERS, STEER CALVES, BULLS, bulls of all ages
2. Cotton and cottonseed	O CATTLE AND CALVES SOLD FROM THIS PLACE IN 1987
3. Hay, silage, field seeds, and grass seeds	Include those fed on this place on a Contract or custom basis. Also report in 1987
trish potatoes and sweetpotatoes, report them in item 6 below.) 5. Fruits, nuts, and berries — grapes, peaches, apples,	00 as sold cattle moved from this place None Dollars Cents to a feedlot for further feeding.
avocados, olives, citrus, almonds, strawberries, etc	00 2. Calves weighing less than 500 pounds \$ 00
6. Other crops — sugar beets, potatoes, peanuts, etc. (Do not include nursery and greenhouse crops.) —	3. Cattle, including calves weighing 500 pounds or more
Specify\$	a. Of the total cattle sold, how many were
SECTION 10 How were the ACRES in this place USED in 1987?	FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more
 Copy acres in "THIS PLACE" from section 1, item 4, page 1 Acre NOTE: For items 2 to 5 below, if lend 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 SOLD FROM DAIRY PRODUCTS Construction of soles
harvested and also pastured, only as "Cropland harvested." 2. CROPLAND None Number of a	
a. Cropland harvested — Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nursery end greenhouse crops	4. Gross value of sales of DAIRY PRODUCTS from this place in 1987 – Include milk, cream, butter, etc
b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without additional improvements.	SECTIONAL 1 Did you or anyone else have any HOGS or PIGS on this place in 1987?
c. Cropland used for cover crops, legumes, and soil- improvement grasses, but NOT harvested and NOT	1 YES — Complete this section INVENTORY 2 NO — Go to section 15 Number on this place Dec. 31, 1987
pastured	DECEMBER 31, 1987 INVENTORY 1. HOGS and PIGS of all ages (Total of a and b below)
failed. Such acreage is to be reported in item 2a.)	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 (a. Woodland pastured	LITTERS FARROWED
woodlots and timber tracts and cutover and deforested land with young timber growth. b. Woodland not pastured	2. LITTERS FARROWED on this place between — None Number of litters 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, etc. — Include any land not reported in items 2 through 4 above	Number Gross value of sales
6. TOTAL ACRES — Add the acres reported in items 2 through 5 (Should be the same as item 1 above.)	HOGS AND PIGS SOLD None in 1987 Dollars Cents 2 HOGS and PIGS SOLD Association 820 821
SECTION 11. Was any LAND in this place IRRIGATED at any time in 1987?	3. HOGS and PIGS SOLD from this place in 1987
Irrigated land is all land watered by any artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, etc. Include supplemental, partial, and preplant irrigation.	4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding? \$ 00
1 VES — Complete this section 2 NO — Go to section 12 None irrigater	
How many acres of harvested land were irrigated? Include land from which hay was cut and land in bearing and	2 NO — Go to section 16
nonbearing fruit and nut crops reported in section 10, item 2a	Number on this None place Dec. 31, 1987
STOTION 122 Were any ACRES in this place SET ASIDE, DIVERTED, OR IDLED	1. SHEEP and LAMBS of all ages
under FEDERAL acreage reduction programs in 1987?	a.EWES 1 year old or older
1 YES — Complete this section	Number shorn Pounds of wool None in 1987 shorn in 1987
2 NO - Go to section 13 None Number of a	1000
1. 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 PROGRAM (10 year, CRP)?	3. What was the gross value of sales of SHEEP, LAMBS, and WOOL from this place in 1987?
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ष	CTION(16) Did you or anyo	ne else have any H OCK, or ANIMAL S						SECTION BY GOVERNMENT CCC LOANS	
	S16	Complete this sec		NO	-		17	Amount received in 1987 from Government CCC loans for — None Dollars Ce Include regular and reserve loans, even if redeemed or forfeited. Base Bas	ents
		INVENTORY	1		Γ_	value of s		a.Corn s	00
		Number on this place		entity sold 1987		ollars	Cents	b. Wheat	00
1.	None . Horses and ponies	Dec. 31, 1987	831		832	oliars		c.Soybeans	00
l	of all ages	ļ	840	Number			00	889	
		839	841	Number	12		i	d. Sorghum, barley, and oats	00
2.	Colonies of bees			Pounds honey	\$		00	e. Cotton	00
}		843	844	Number	B48	ļ	!		00
,	Milk goats	1	845	Gations	(s		00	Payments received for participation in FEDERAL FARM PROGRAMS	
٠.	WIIIK GOOTS	847	848	milk	850			in 1987 (DO NOT INCLUDE CCC loans.) Refer to INFORMATION SHEET, section 19. None Dollars Ce	ents
ļ		{	849	Number Pounds) s		00	- 884	00
4.	Angora goats	851	852	moheir	853			2. Value of certificates received — payment-in-kind (PIK)	00
Б.	Other goats			Number	ŀ		00	or commodity certificates\$	00
ľ	.Mules, burros, and	833	834		835			SECTION 202 TYPE OF ORGANIZATION	
	donkeys	836	837	Number	\$ 838		00	Mark (X) the one item which best describes the type of organization for	
7	Mink and their pelts		37	Number	l		00	this place in 1987. Refer to the INFORMATION SHEET, section 20.	
R	Rabbits and their	854	855	Maniper	856			FAMILY or INDIVIDUAL operation — (Do not include partnership and corporation.)	
1	pelts		ļ	Number	\$		00	PARTNERSHIP operation — Include family Go to section 22	2
9.	. All other livestock and livestock products	857	858		859			partnerships	1
	Specify		<u> </u>	Number	\$		00	OTHER, such as estate or trust, prison farm, grazing	
10.	. Fish and other aquaculture	Total quantity	SUIG	ss value o]		association, Indian reservation, etc	hen ?
	products (Enter name and code from list below.)	in 1987	— <u></u>	Dollars	Cents	-		Specify	
l	Name Code	ORP	11 2		00			SECTION 21 CORPORATE STRUCTURE (for Incorporated operations only)	
١.	Name	Code	Marne		1	Code		Refer to the INFORMATION SHEET, section 21.	
	Catfish	860	Other fish	n - Specify	٠			1. Is this a family-held corporation?	
L	Trout		Other aqu product:	s Specify		869			
ន	CTION 17 Did you or anyo	ne else have any P CKS, etc., on this p	OULTRY, s	uch as CH	ICKEN	S,		2. Are there more than 10 stockholders?	
İ	for others on a	contract basis.	1800 111 100	INVENT		inity grown		or person in charge) Refer to the INFORMATION SHEET, section 22.	
	^{\$17} 1 □ YES -	- Complete this se	ection	Numbe this pl	er on	Total nur		1. RESIDENCE — Does the operator (senior partner or	
ł		Go to section 18	None		1987	893		person in charge) live on this place?	,
	HENS and PULLETS of laying PULLETS for laying flock rep		Ц	ļ				2. PRINCIPAL OCCUPATION — At which occupation did the operator spend the majority (50 percent or 928	
	a.PULLETS 3 months old or old		g age	894	ł	895		more) of his/her worktime in 1987? For partnerships consider all members of the partnership together	her
İ	b.PULLET CHICKS and PULLE	TS under 3 months	sold _	896		(or ranching	
,	(Do not include commercial b BROILERS, fryers, and other			898		899		3. OFF- FARM WORK — How many days did the operator (senior partner or person in charge) work at least 1—49 days	
	including capons and roaste							at a nonfarm job, business, or on someone else's farm for	
4.	TURKEYS a.Turkeys for slaughter (Do:	not include broods 1		900	l	901		pay. (Do not include exchange farmwork.)	
	b.Turkey HENS kept for bre			902		903		5 ☐ 150 — 199 days a ☐ 200 days or more	e
5.	OTHER POULTRY raised in c							4. In what YEAR did the operator (or senior partner) begin	
]	geese, pigeons or squab, phe (Enter poultry name and code for	easants, quail, etc						to operate any part of this place? Year	
ł	Poultry name	Code _						5. AGE of operator (senior partner or person in charge) Years old	
ł	Poultry name	Code _				1		924	
	Name Code 1	Name	Code	, Name		Cod		1	
İ	Ducks	Pigeons or squab. Pheasants		All ot	her poult	912 ry –		2 American Indian	
R	POULTRY HATCHED on this p	place in 1987 and	None	Spe	Numbe	914	-	6. RACE of operator (senior partner or person in charge) Asian or Pacific Islander	
] "	placed or sold — chickens, tur			916	Mainbe			9 🗆 Other – Specity)	
	Specify kind of poultry	-	— 🖳	917				\	
7.	Incubator egg capacity on D	December 31, 198	37 🔲 📗		-			7. SEX of operator (senior partner or person in charge) 1 Male 2 Fen	male
				ross value					
8.	What was the gross value of spoultry and poultry products (918	Doliars		Cents		8. SPANISH ORIGIN — Is the operator (senior partner or person in charge) of Spanish origin or descent	_
FDES	etc.) from this place in 1987?] \$			00		(Mexican, Puerto Rican, Cuban, or other Spanish)? 1 Yes 2 No	<u>-</u>

PRODUCTION EXPENSES paid by you and others place in 1987	for this	5	SECTION 125 Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATICIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1987?							
Include your best estimates of expenses paid by you, your landlord, buyers, and others for production of crops, livestock, and other agric	contrac	ctors,	1	1 YES - Complete this section 2 NO - Go to section 26						
in 1987. (DO NOT INCLUDE expenses connected with performing others; operation of nonfarm activities, businesses, or services; or hexpenses not related to the farm business.)	custom	work for old		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, hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc.	971		Cents 00	1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematicide) to control — a. Insects on crops, including hay						
2. Feed purchased for livestock and poultry — grain,	972	i i		b. Nematodes in crops						
hay, silage, mixed feeds, concentrates, etc	J \$ }	· · · · · · · · · · · · · · · · · · ·	00	c. Diseases in crops and orchards (blights,						
complete, supplement, concentrates, premixes.	_			d. Weeds, grass, or brush in crops and pasture —						
(Do not include ingradients purchased separately, such as soybean meal, cottonseed meal, and ures.) Dollars Cei	00			2. Chemicals for defoliation or for growth control						
3. Seed cost — for corn, other grains, soybeans, tobacco,	974	1		of crops or thinning of fruit						
cotton, etc Include plants and trees purchased	975	1	00	S28 Include only equipment used for agricultural operations in 1986 or 1987.						
4. Commercial fertilizer purchased — all forms, including rock phosphate and gypsum. Include cost of custom applications.	_ .	1	00	 Value of ALL machinery and equipment on this place, December 31, 1987 						
5. Agricultural chemicals purchased — insecticides, herbicides, fungicides, other pesticides, etc. — Include	976	' ! !		What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place Estimated market value						
cost of custom applications. (Do not include lime.)	ַ •	1	00	and used for the farm or ranch business? — include cars,						
6. Gasoline and other petroleum fuel and oil purchased for the farm business —	977	, į		pumps, motors, irrigation equipment, dairy equipment including ! milkers and bulk tanks, livestock feeders, grinding and mixing !						
a. Gasoline and gasohol	978	,	00	equipment, etc. \$ 00						
b. Diesel fuel	979		00	SELECTED machinery and equipment on this place, December 31, 1987. (Report on this place on MANY were manufac-						
c. Natural gas	\$ 980	i	00	only if used in 1986 or 1987.) None December 31, 1987 tured in the last 5 years (1983 - 1987)?						
d.LP gas, fuel oil, kerosene, motor oil, grease, etc			00	2. Motortrucks - Include pickups						
7. Electricity for the farm business — (Do not include household expenses.)	3 \$	 	00	3. Wheel tractors other than garden tractors and motor tillers — a. Less than 40 horsepower (PTO)						
8. Hired farm and ranch labor — also include employer's cost for social security, workman's compensation, insurance	982	. !		b. 40 horsepower (PTO) or more						
premiums, pension plans, etc. (See INFORMATION SHEET)	ַן נ	i	00	4. Grain and bean combines, all types						
9. Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc.,	983	, !	1	5. Cotton pickers and strippers						
performed on a contract basis by a contractor, crew leader, a cooperative, etc.	∃		00	6. Mower conditioners						
10. Repair and maintenance expenses for the upkeep of buildings, motor vahicles, and farm	984	, ,		and round belers						
equipment L] \$		00	SECTION 27 ESTIMATED CURRENT MARKET VALUE OF LAND and S27 BUILDINGS						
11. Customwork, machine hire and rental of machinery and equipment — Include expenditures for	ı	ŧ 1		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, corn picking, drying, silo filling, spraying, dusting, fertilizing, etc. [Do	985	1 i		section 1, items 1, 2, and 3, page 1. None Dollars Cents						
not include cost of cotton ginning and application of fertilizer and chamicals.)] s	1	00	1. All land owned						
12. Interest paid on debts — (See INFORMATION SHEET)	986	1		987						
a. Secured by real estate	987		00	2. All land rented or leased FROM OTHERS						
b. Not secured by real estate] [s_	i	00	3. All land rented or leased TO OTHERS						
13. Cash rent paid for land and buildings in 1987— (Do not include grazing fees.)	988	1	00	SECTION 20 INCOME FROM FARM - RELATED SOURCES IN 1987 Report amount received before taxes and expenses.						
14. Property taxes paid — Include farm real estate.	3 3		-00	Farm-related income						
machinery, livestock, etc. for the farm business. (Do not include taxes paid by landlords.)] s	1	00	Customwork and other agricultural services provided for None farmers and others — plowing, planting, spraying, Dollars Cents						
	_ _		<u> </u>	harvesting, preparation of products for market, etc. 992 (If customwork is a separate business, refer to INFORMATION SHEFT, section 28 00						
15. All other production expenses —Include insurance, water, animal health costs, grazing fees, marketing charges,	990) I	- 1	SHEET, section 28) \$ 1 00 2. Gross cash rent or share payments received from renting						
miscellaneous farm supplies, etc. (Do not include depreciation, household expenses, and expenses not associated with the farm business.)	ַ \$	1	00	out farmland or payments received from lease or sale of						
(SECTION 20) Was any COMMERCIAL FERTILIZER, including Ri		HOSPHATE,		allotments — Include payments for livestock pastured on a per-head basis, per-month basis, per-pound basis, etc						
324	- Go	to section 25		maple products, haval stores, firewood, etc						
Acres of cropland fertilized in 1987 — (Do not include cropland)	None	Acres fertil	lized	4. Recreational services, patronage dividends of cooperatives, and other income which is CLOSELY RELATED to the agricultural operation on this place -						
for pastures reported in section 10, item 2b.) 2. Acres of pastureland and rangeland fertilized in 1987		933		Specify \$ 00						
reported in section 10, items 2b and 4		L		SECTION 29 PERSON COMPLETING THIS REPORT - Please print						
3. LIME — tons of lime used and acres on None Tons of	lime	Acres lim	eđ	Name 999 Date						
which applied — (Do not include land plaster or gypsum or lime for sanitation.)		935	ł	Telephone number Area Code Number						
FORM 87-A0211 (9:24-86)		L	Page							

INFORMATION SHEET

1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

I. 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 "0" and:

- a. 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.
- c. 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 27	ere eny of	f the followi	ng CROPS harv	ested from
<u> </u>	None	Acres harvested	Quantity harvested	Acres irrigated
1. Cotton	🖂	091	092 Bales	093
2. Soybeans for bea	_	088 40	⁰⁸⁹ /,550 Bu.	090 40
3. Wheat for grain.	🗀	073 40	074 A30 Bu.	075
4. Oats for grain	🖂	076	077 Ru	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 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 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).

Double 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 SPECIALTIES

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 1, item 4) on December 31, 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 census.

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:

- a. 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

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. 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

- 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.

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

► 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.

► Section 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.

► Section 20 - TYPE OF ORGANIZATION

Use the following definitions to determine the type of organization for your operation:

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 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.

 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

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

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 who is mainily responsible for the agricultural operations on "this place," not necessarily the person senior in age. If each partner shares equally in the day-to-day management decisions, consider the oldest as the "Senior Partner." For item 2 (Principal Occupation) consider all members of the partnership together. Please include as "farming" worktime at all types of agricultural enterprises, including work at greenhouses, nurseries, mushroom production, ranching, feedlots, broiler feeding, etc.

For Corporations and Other Operations (Cooperatives, Estates, etc.) — Complete section 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 produce 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. roduced 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 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 paid 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. 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 Include the the cost of additions to existing buildings.

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 represents 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				•				val Expires September 30, 1989
FORM 87-A0400 (3-13-87)	U.S. DEPARTME BUI	ENT OF COMMERCE REAU OF THE CENSUS	NOTICE — Re THE CENSUS only for statist	seponse to this inquiry is req BUREAU IS CONFIDENTIAL licel purposes. Your report C rovides that copies retained	uired by lav L. It may be ANNOT be	v (title 13, U.S seen only by used for purp	 Code). By the same swom Census emploses of taxation, inventor. 	e law YOUR REPORT TO oyees and may be used estigation, or regulation.
	UNITED ST CENSU	TATES		rovides that copies retained denoe pertaining to this re				
AG CENSUS USA	OF AGRICU	LTURE	Г				87-A04	00
Please complete this form and RETURN TO	BUREAU OF THE CENS 1201 East Tenth Street Jeffersonville, IN 47							•
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	our 12-character Census Fi	uest may be sent						
If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.								
CENSUS 035 036 USE 039 040	037	038	Please	correct errors in name, add	Irans and 7	IP Code ENT	ER street and number	r if not shown
SECTION 1				SECTION 4				THE TOTAL SHOWN.
 1. At any time during 1987, did Hay or tobacco? Corn, wheat, or other grain 	 Fruit, nut, or ci 	e any: itrus trees; grapevii elons, or berries?	nes?	PART A — CROF (Do not include crops a	PS HARV grown on la	/ESTED fro	om "THIS PLAC	CE" in 1987.
****	• Greenhouse or Yes			1. Hay crops — a. Alfalfa and alfalfa	None	Acres harvested	Quantity harves	ted crops sold Dollars Cents
 At any time during 1987, did Cattle, hogs, sheep, or goa 				mixtures	📙]	108		ons, 782 ry \$ 00
 Chickens or other poultry? Bees? 		v?	1 1 1 1	b. Small grain hay .	[112		ry \$ 100
- beest	Yes 🔲 No			c.Wild hay		109		ry \$ 00
If you answered YES to El	THER of these question	ns. go to SECTION	y 2.	d. Other hay — Specify kind ———			1	ons, \$ 00_
If you answered NO to BO				2.Corn for grain or see	ed 🔲 l	367	068	773 lu. \$ 00
	1987 Report land own r by the partnership, cor			3. Soybeans for beans	_ 6	088	089	775 u. \$ 00
which you are r	reporting, include ALL L	AND. REGARDLES	SS OF	4. Wheat for grain		773	074	774 su. \$ 100_
woodland, idle	USE — cropland, pastuland, house lots, etc.		nber of acres	5. Tobacco — all types		/10	095	781 bs. \$
		043	inoi oi acios	6. Potatoes, Irish -/Do	1	597	098	785
1. All land owned	······································	······		not include those grown for home use.)				wt. \$ 00
 All land rented or leased FRO worked by you on shares, us services, payment of taxes, e and railroad land. (DO NOT in basis under a grazing permit. 	ed rent free, in exchange etc. Include leased Feder nclude land used on a per-	for o44 al, State, -head	N. N	7. All vegetables for sa (Do not include those gre- for home use.)	nie N	one Total a	cres Dollars C	ents 00
 All land rented or leased TO OT shares by others and land subfe 	THERS, including land work eased. Also complete item	ked on 5 below.		Specify kind(s)			/10 /10	
 Acres in "THIS PLACE" and acres rented (item 2), the TO OTHERS (item 3), and e 	then SUBTRACT acres re	ented	48	8. All fruit and nut orch vineyards, and berri	nards, .	one Total a	Ores Quantity herver	sted Dollars Cents
If the entry is zero please refe	er to the Information She	et, section 2		Specify kind(s)				bs.
5. Of the land you rented or leas acres did you own?		None obs	Acres	9. Other crops — For ad Report quantity harvest	ditional crop	es, enter the cro t specified with		bs. n the list below.
6. In what county was the large agricultural products raised of	est value of your or produced?	County name	State	Crop name	Code	Acres harvested	Quantity harvest	ed Gross value of crops sold Dollars Cents
SECTION SE LAND USE and PART A — How were the			100				1	\$ 00
		61	nber of acres	À			1	\$ 00
 Cropland harvested — Inclui were harvested or hay was cut groves, vineyards, and nursen 	ide all land from which crop t, and all land in orchards, o y and greanhouse crops.	787		If more space is needed, use s Crop name Barley for grain (bushels)		Code	Crop name Oats for grain (bushe)	Code
Cropland on which all crops report here land in orchards and v	s failed — (Exception: Do no vineyards on which the crop	ot		Corn for silage or green cho Cotton (bales)	o (tons, gree	m)070	Sorghum for grain-mi Other crops (pounds)	s)
Cropland idle, cropland used or cropland in cultivated sur	d for cover crops, mmer fallow				B PLACE"	in 1987	•	
4. Cropland used only for pas and other pastureland and	d rangeland	red,		From the list below, ent	So	uare feet	Acres in the open in 1987	grown. Sales in 1987
5. All other woodland, waste reported in items 1 throug		10t		Crop name		er glass or v	Mhole acres Tenths	Dollars Cents
PART B - IRRIGATION		None	ber of acres irrigated	If more space is needed, use a		et of parer	/10	00
 How many acres of harveste land from which hay was cut at fruit and nut crops. 		· · · · · · L		Crop name Bedding plants (include veg	etable plant:	Code 6	Crop name Potted flowering plan	Code ts
2. How many acres of pasture lands not included in item 1	above were irrigated?	y other		Cut flowers and cut florist g Nursery crops — ornamenta and nut trees, and vines .	reens ils, fruit	485	Follage plants Greenhouse vegetable Other — <i>Specify</i>	
ENALTY FOR FÄILURE TO REP	TUR I					CONTINU	E ON REVERSE SIC	<i>→</i>

SECTION 58 LIVESTOCK and POULTRY				PART E - HORSES, OT	HER LIVESTOC	C. ANIMALS	PECIALTI	ES, and F	ISH	
	i	INVENTORY		1	INVENTORY	Total quan		Gross value of sales		
PART A — CATTLE and CALVES	Number on this None place Dec. 31, 1987		None	Number on this place Dec. 31, 1987	sold in 19		Dollars	Cents		
		803		1. Horses and ponies of all ages	630	831 No.	# \$32		00	
1. CATTLE and CALVES of all ages			Total	1	130	840	842		1	
a. BEEF COWS - Include beef helfers that		804	Beef	2 Calarda adhaa	l {	841 Pot	mber mds		! 00	
//BU CEIVEG.	ا لـا	808	cows	2. Colonies of bees	843	B44	16V # 846		100	
b. MILK COWS kept for production of milk or cream for sale or home use — Include dry			Milk			Nu	mber lone		i	
milk cows and milk helfers that had calved	🗆 (COWS	3. Milk goats	847	mil	k J\$		00	
	G.	oss value of sales	7)** ′		mber 850		ļ	
None		Dollars Cents	-	4. Angora goats	1	848 Pot mo	nds hair \$		00	
2. Value of DAIRY PRODUCTS sold in 1987 -	814	!	7	5. Other livestock, fish,				-		
Include milk, cream, butter, etc	*	00	_i	animal products. (Enter name/code from below.)					1	
CATTLE and CALVES SOLD FROM THIS PLACE IN 1987				l.,		1 0	entity \$		00	
Include as sold cattle moved from	Numbe			Name ————Code ——— Name/oode	Name/code		tame/code		,	
this place to a feedlot for further None feeding.	in 19	987 Dollars	Cents	Mules, burros, donkeys 833 Mink and their pelts 836	Rebbits and their p	elts 854 [†] (Other Ilvesto	ck, fish,	857	
3. Calves less than 500 pounds			00	STELLONG GOVERNM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	-			
4 C-mls trade trans 500 m trans	810	811	1	Amount received in 1987 and reserve loans, even if re	from Governm	ent CCC los	ns. <i>Includ</i>	e regular		
a. Of ALL cattle sold, how many were	812	813	00	and reserve loans, even if re	deemed or forfel	ted. None	1	ara	Cents	
FATTENED on this place on GRAIN or			į	Specify grop(s)			\$	į	00	
CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?			00	Significant Payments n	ceived for parti	cipation in F	EDERAL	FARM		
PART B — HOGS and PIGS		INVENTORY	1 00	PROGRAM	3 in 1987 <i>(DO N</i>					
	None	Number on this place Dec. 31, 18				None	Doll 884	ara	Cents	
		815		1. Amount received in cash			4	1	00	
1. HOGS and PIGS of all ages	. 🗆 l		Totel	Value of certificates rece (PIK) or commodity certificates	ived — payment-	in-kind	685	1	00	
	[816		SECTION & Acres in this			D. or IDI	ED unde		
a. HOGS and PIGS used or to be used for breeding	ЦĮ		Breeding	FEDERAL a	reage reduction	n programs i	n 1987 _			
,	Number	reold Gross value	of selec					Number of	acres	
None	In 19		Cents	1. How many acres were se ANNUAL commodity acr				•••		
2. HOGS and Figs SOLD from this	820	821	1	2. How many acres were ur	• •		· _	883		
place in 1987	822	823	00	RESERVE PROGRAM (10	year, CRP)?		<u> 🔲 </u>		G 843777	
3. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?		8	00		O bee solters Risking of the contract of the c		V OF OPE	RATOR		
PART C — SHEEP and LAMBS	INVENT		SOLD	1. RESIDENCE - Does the	•					
	lumber o ce Dec. 3	in this 31, 1987 in 198			· · · · · · · · · · · · · · ·		☐ Yes	2 🗆 N	0	
824		825		2. PRINCIPAL OCCUPATION						
1. SHEEP and LAMBS of all ages			***********	occupation did the oper majority (50 percent or	more) of his/her	928	_		_	
a. EWES 1 year old or older				worktime in 1987? For pall members of the partners	artnerships conside		Farming or ranci	O1 لباد g Ding	ther	
2 CHEED and LAMPS CHOPY None 1627		1828			-	929		.		
in 1987	Numbe	Poundal		3. OFF-FARM WORK He operator work at least 4		44 tinia 📗	None			
· · · · · · · · · · · · · · · · · · ·	Gro	oss value of sales	ו ר	place in 1987? — Include business, or on someone els	work at a nonfarm	<i>job,</i> 2 L	1-49	•		
3. What was the gross value of sales of None		Dollare Cente	1	include exchange farmwork	.)		⊒ 50—98 ⊒ 100—1			
SHEEP, LAMBS, and WOOL from this place in 1987?	829					1 -	150-1 150-1			
PART D POULTRY	l IN	VENTORY	ــــــــــــــــــــــــــــــــــــــ			_	⊒ 200 da			
· Ant w ··· ; event	1	Number on Num		4. In what YEAR did the or	seretor benin to	***				
1. HENS and PULLETS	one De	c. 31, 1987	.557	any part of this place?	sereror peditiro.			Year		
a. HENS and PULLETS of laying age	┌ ****	893				925				
b. PULLETS 3 months old or older not yet of	694	895		5. AGE of operator		924 / [7	Years o	I	
laying age for layer replacement	L 898					1 15	☐ White ☐ Negro o	a Black		
o. PULLETS under 3 months old for layer replacement				6. RACE of operator		1	⊒ Negro c			
·	898	899		OF TACE OF OPERATOR			Asian c	r Pacific	,	
2. BROILERS, fryers, other meat-type chickens	□ 	901					Islande			
	□∐					(•E	Other -	- Specify		
4. OTHER POULTRY (Enter name/code from below.)	[926				
Poultry name Code	į	}		7. SEX of operator		-	☐ Male	₂□ Fe	male	
Name/code Name/code		Name/code		8. SPANISH ORIGIN - Is t		927				
Turkey hens kept Geese for breeding 902 Pigeons or squab	906	Quali	. 912	origin or descent (Mexic	an, Puerto Ricar	i, _	Yes			
Ducks 904 Pheasants	910	Specify	914	Cuban, or other Spanis				2 □ No)	
			7	AND THE PERSON CO	MIPLE ING IM	10 REPURI	— r:5855	print		
- 1/1 - 1 DOLUT PRIV 1 PARTITION - 1		es value of sales	 	Name		999 [ate			
5. Value of POULTRY and POULTRY None PRODUCTS (eggs, etc.) sold from this place		Dollars Cents			1 Wyrmhar	999 [ate			
PRODUCTS (eggs, etc.) sold from this place	1			Name Telephone number Area code	Number	999 [Date			

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, tenents, pertnerships, 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 cenaus 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 renching 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 partnersh 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 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 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 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
- 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 screage 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
- **b.** 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 land 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 seles. 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:

- a. 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 answer 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, tem 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 angeland 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 census.

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, part A.

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 4e.

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 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.

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 inventer.

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 soil 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 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.

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