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:

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

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

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

Other—The operator spent more than 50 percent of his/her worktime in 1987 in occupations other than farming or ranching.

Farms by size—All farms were classified into selected size groups according to the total land area in the farm. The land area of a farm is an operating unit concept and includes land owned and operated as well as land rented from others. Land rented to or assigned to a tenant was considered the tenant's farm and not the owner's.

Farms by standard industrial classification—In 1987, all agricultural production establishments (farms, ranches, nurseries, greenhouses, etc.) were classified by type of activity using the standard industrial classification (SIC) system. These classifications, found in the 1987 SIC 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]

Agricultural places	excluded by farm def in the CRP	finition with acres	Far	Farms with acres in the CRP			
Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)		
128	20 834	16 984	1 765	3 176 104	319 886		
12 4 5 11 8 3 5 6 9 3 3 12	2 321 1 301 1 364 1 716 663 1 003 1 077 1 306 1 277 406 831 435 532 2 013	1 917 1 195 1 227 1 506 509 1 003 1 049 896 1 023 298 617 226 465	75 39 112 147 48 8 14 56 77 32 74 13 16 49	47 650 59 358 127 462 150 243 34 348 26 260 13 410 91 739 80 238 15 869 71 988 13 114 17 529 25 903	9 906 7 696 15 768 24 808 4 715 3 261 934 10 438 10 702 2 404 9 266 1 593 (D) 6 619		
	Number 128 12 4 5 11 8 3 5 3 5 6 9 3 3	Land in places (acres) Land in places (acres)	Number Land in places (acres) 128 20 834 16 984 12 2 321 1 917 4 1 301 1 195 5 1 364 1 227 11 1 716 1 506 8 663 509 3 1 003 1 003 5 1 077 1 049 3 1 306 896 5 1 277 1 023 6 406 298 9 831 617 3 435 226 3 532 465 12 2 013 1 555	Number Land in places (acres) Land in CRP (acres) Number	Land in places Land in CRP (acres) Number Land in farms (acres)		

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	16.6
Land in farmsacres	7.6
Value of land and buildings\$1,000	8.0
Market value of agricultural products sold\$1,000	8.0
Harvested croplandacres	10.5
Corn for grain or seedacres	11.5
Wheat for grainacres	8.9
Livestock and poultry inventory:	
Cattle and calvesnumber	9.4
Hogs and pigsnumber	9.9
Hens and pullets of laying agenumber	2.5

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	01 All crops	0 to 69
\$1,000 to \$ 2,499	02 All livestock	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.
- 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	7.5
50	5.3
75	4.3
100	3.7
150	3.0
200	2.6
300	2.0
500	1.5
750	1.2
1,000	.9
1,500	.6
2,000	(NA)

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	36.3
50	25.1
75	20.1
100	17.0
150	13.2
200	10.8
300	7.6
500	3.5
750	2.9
1,000	2.5
1,500	2.0
2,000	(NA)

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

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

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

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

CENSUS NONSAMPLING ERROR

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

Census Coverage

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

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

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

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

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

Mail List Coverage

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

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

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

Respondent and Enumerator Error

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

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

Item Nonresponse

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

Processing Error

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

Classification Error

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

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

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

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

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

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

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

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

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

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

Tables Dalaman b O fallow

Tables D through G follow.

Table D. Reliability Estimates of State Totals: 1987

		All farm	s	Farms with sales of \$10,000 or more		
Item		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standar error of estimati (percent	
Farms		36 376	.1	28 278		
Land in farms Average size of farm		44 157 503 1 214	.1	37 856 774 1 339		
Value of land and buildings1	\$1,000	11 871 004	.9	10 583 370	1.	
Average per farmAverage per acre	dollars	326 333 269	1.2	372 104 279	1. 1.	
Estimated market value of all machinery and equipment1		1 996 230	.8	1 878 724		
Average per farm	dollars	55 005	.9	66 117	•	
arms by size: 1 to 9 acres		1 881	1.0	741	1.	
10 to 49 acres		4 226 2 638	1.4	1 369 611	2. 1.	
50 to 179 acres		63 579 5 083	.6	13 496 2 345	i.	
180 to 499 acres	acres	613 199 8 625	.6	303 997 7 176		
	acres	2 904 504	.4	2 473 898	•	
500 to 999 acres	acres	7 618 5 456 088	.4	7 209 5 174 357		
1,000 to 1,999 acres	farms	5 728 7 942 761	.4 .4	5 550 7 695 466		
2,000 acres or more		4 803 27 173 146	.3	4 646 22 194 191		
otal cropland	Ĭ	32 451	.1	26 620		
Harvested cropland	acres	19 641 972 31 110	.1	18 844 928 26 095		
	acres	12 982 611	i i	12 612 937		
Acres harvested: 1 to 9 acres	farms	604	1.7	114	3.	
10 to 49 acres	acres	2 943 2 457	2.0	503 625	4. 1.	
50 to 99 acres	acres	68 168 2 835	.9	18 834 1 477	1. 1.	
SO to 99 acres	acres	208 446	.8	111 297	i.	
100 to 199 acres	farms	5 626 813 300	.5 .5	4 580 674 864		
200 to 499 acres		11 143 3 640 460	.3	10 869 3 568 257	,	
500 to 999 acres	farms	5 979	.4	5 965	(C	
1,000 acres or more		4 098 912 2 466	.4	(D) 2 465	(0	
Cropland used only for pasture or grazing	acres	4 150 382 13 165	ء ا	(D)		
Other cropland	acres	2 388 871 22 460	.3 .5 .2 .2	2 198 924 20 041		
Other Gopland	acres	4 270 490	.2	4 033 067		
rigated land	farms acres	1 869 361 796	.7 .6	1 655 351 597		
Acres irrigated: 1 to 9 acres		119	3.4	51	4.	
10 to 49 acres	acres	362 236	5.1 2.4	139 162	7. 2. 2.	
	acres	6 880	2.5	4 911 272	2	
50 to 99 acres	farms acres	316 22 793	2.1 2.2	19 809	2	
100 to 199 acres	farms	608 83 662	1.4	588 81 040	1. 1.	
200 to 499 acres	farms	463 132 951	1.3 1.3	455 130 550	1. 1.	
500 to 999 acres		103	1.4	103	1.	
1,000 acres or more		67 186 24	1.4	67 186 24	1.	
Aerket value of enricultural products sold	acres	47 962 2 719 498	.1	47 962 2 685 740		
farket value of agricultural products sold Average per farm	dollars_	74 761	.i	94 976	:	
Value of sales: Less than \$2,500	farms	2 888	.7	_		
\$2,500 to \$4,999	04.000	2 910 2 020	1.0 1.0	-		
\$5,000 to \$4,000	\$1,000 ferms	7 447 3 190	1.0	-		
\$5,000 to \$9,999	\$1,000	23 401	.8	-		
\$10,000 to \$24,999	farms \$1,000	6 764 114 209	.5 .5	6 764 114 209		
\$25,000 to \$49,999	farms \$1,000	7 026 255 486	.4	7 026 255 486		
\$50,000 to \$99,999	\$1,000 farms \$1,000	7 706 551 679	.4 .4	7 706 551 679		
\$100,000 or more	\$1,000 farms \$1,000	6 782 1 764 366	.4 .3 .1	6 782 1 764 366		
ales by commodity or commodity group:	91,000	1 70-7 300	• '		•	
Crops, including nursery and greenhouse crops	farms \$1,000	26 974 857 373	.1	23 324 842 937	1.	
Grains	\$1,000	780 325 257 035	.2 .2 .2 .2 .3 1.0	769 103 253 475		
Corn for grainWheat	\$1,000	233 420	.2	229 825		
Soybeans Sorghum for grain	\$1,000	180 976 9 823	.3 1.0	178 969 9 632	1	
BarleyOats	\$1,000	31 776 32 485	.4	31 316 31 414		
Other grains	\$1,000	34 809	.4	34 471		

See footnotes at end of table.

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

		All farm	s	Farms with sales of \$10,000 or more			
!tem		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standar error of estimate (percent		
Sales by commodity or commodity group—Con.							
Crops, including nursery and greenhouse crops—Con. Cotton and cottonseed	\$1,000	_	_	_			
Tobacco	\$1,000	-	-	-			
Hay, silage, and field seedsVegetables, sweet corn, and melons	\$1,000 \$1,000	58 759 593	.5 4.3	55 811 489	4.5		
Fruits, nuts, and berries	\$1,000	128	15.1	102	20.		
Nursery and greenhouse cropsOther crops	\$1,000 \$1,000	7 875 9 693	.7	7 746 9 686			
Livestock, poultry, and their products	1	28 422	.1	23 485			
,, ,, ,,	\$1,000	1 862 125	.1	1 842 803			
Poultry and poultry products	\$1,000	35 638 168 730	.3 .6	35 447 168 571			
Cattle and calvesHogs and pigs	\$1,000 \	1 273 147 316 951	.1 [1 259 904 314 905			
Sheep, lambs, and wool	\$1,000	44 820	.3 .5	42 174	•		
Other livestock and livestock products (see text)	\$1,000	22 839	1.1	21 803	1.		
Farms by standard industrial classification: Cash grains (011)	farms	11 719	3	9 581			
	acres	10 456 662	.3 .3 1.3	9 981 438	ئە ئە _		
Field crops, except cash grains (013)	acres_	1 172 1 367 863	1.3	993 823 s	2.		
Vegetables and melons (016)	farms	36	8.2	8	17.		
	acres	5 530	10.2	3 371	4.		
Fruits and tree nuts (017)	acres	16 614	13.0 17.7	192	24. 17.		
Horticultural specialties (018)	farms	72		48			
General farms, primarily crop (019)	acres	2 925 748	1.5	2 739 485	1.		
	acres	754 769	1.3	709 069	1.3		
Livestock, except dairy, poultry, and animal specialties (021)		19 022	.2	15 013			
Dairy farms (024)	acres farms	25 011 079 1 950	.2 .9	24 324 028 1 923			
Poultry and eggs (025)	acres	1 233 419	.8	1 232 170 51	 3.		
Poultry and eggs (025)	acres	34 231	3.3 5.2	29 081	5.5		
Animal specialties (027)	farms	717	1.5	147	3.		
General farms, primarily livestock and animal specialties (029)	acres	334 214 810	1.3 1.3	50 456 577	4.; 1.0		
General lains, primarily livestock and animal speciaties (V23)	acres	4 956 197	.2	530 407	1.3		
arms by type of organization:	1		1				
Individual or family (sole proprietorship)	farms acres	31 761 30 214 192	- 1	24 481 28 690 326	•		
Partnership	farms	3 394	7	2 832			
Corporation	acres	5 587 178 942	.1 .7 .3 .9 .3 20	5 443 345 847	.:		
	acres	3 010 954	.3	2 868 686			
Other-cooperative, estate or trust, institutional, etc.	acres	279 5 345 179	2.0	118 854 417	2.3		
enure of operator:							
Full owners		14 827 13 138 314	.3	9 128 8 642 946			
Part owners	acres farms	15 574	.2	14 570			
Tenants	acres	26 089 203 5 975	.3 .2 .2 .2 .5 .5	25 122 304 4 580			
renarios	acres	4 929 986	.5	4 091 524	<u>:</u>		
Operators by principal occupation:							
Farming	farms acres	28 407 39 548 784	.1	24 819 35 631 442	.1		
Other	farms	7 969	.4	3 459	.1 .7 .7		
	acres	4 608 719	.4	2 225 332	.,		
Dperators by sex: Male	farms	35 121	.1	27 617	.1		
	acres	42 875 816	.1]	36 899 930	.1		
Female	acres	1 255 1 281 687	1.2	661 956 844	1.6 1.0		
Average age of operator	years	49.7	.1	49.5	.1		
Propland under federal acreage reduction programs:		20 772		40.055	,		
Annual commodity acreage adjustment programs	acres	20 776 2 285 914	.2	19 255 2 241 721	.2 .2		
Conservation reserve program	farms	1 765	.9	1 496	1.0		
	acres	319 886	1.1	279 356	1.0		
Sovernment payments: Amount received in cash	\$1,000	147 300	.2	144 162	.2		
Value of certificates received	\$1,000	165 786	.2	160 800	.2		
let cash return from agricultural sales1:					_		
	farms \$1,000	36 377 573 997	.2 1.2	28 442 587 672	.8 . 1.1		
Net cash return from agricultural sales for the farm unit (see text)		15 779	1.3	20 662	1.3		
Net cash return from agricultural sales for the farm unit (see text) Average per farm			.3	21 816	.3		
Net cash return from agricultural sales for the farm unit (see text)	_ number	24 647	**				
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains ²	number \$1,000	672 721	.3 .7	666 318	<u>3</u> .		
Net cash return from agricultural sales for the farm unit (see text) Average per farm	number \$1,000		.7 .5 1.8		.7		
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains ² Farms with net losses	\$1,000 number \$1,000 \$1,000	672 721 11 730 98 725 36 374	.5 1.8 .2	666 318 6 626 78 646 28 442	 2.0 3.		
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains ² Farms with net losses otal farm production expenses ¹	number \$1,000 _number \$1,000 farms \$1,000	672 721 11 730 98 725 36 374 2 138 164	.5 1.8 .2	666 318 6 626 78 646 28 442 2 090 584	 2.0 		
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains2 Farms with net losses otal farm production expenses1 Livestock and poultry purchased	number \$1,000 _number \$1,000 farms \$1,000 \$1,000	672 721 11 730 98 725 36 374 2 138 164 16 838 519 803	.5 1.8 .2 .4 1.3	666 318 6 626 78 646 28 442 2 090 584 14 564 514 517	 2.0 		
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains² Farms with net losses otal farm production expenses¹	\$1,000 \$1,000 number \$1,000 farms \$1,000 farms \$1,000 farms	672 721 11 730 98 725 36 374 2 138 164 16 838 519 803 24 144	.5 1.8 .2 .4 1.3	666 318 6 626 78 646 28 442 2 090 584 14 564 514 517 20 679	.7 2.0 .3		
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains² Farms with net losses otal farm production expenses¹ Livestock and poultry purchased Feed for livestock and poultry	\$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000	672 721 11 730 98 725 36 374 2 138 164 16 838 519 803 24 144 277 680	.5 1.8 .2 .4 1.3 .7 .8 .7	666 318 6 626 78 646 28 442 2 090 584 14 564 514 517 20 679 274 134	.7 2.0 .3 .4 1.3 .7 .8 .7		
Net cash return from agricultural sales for the farm unit (see text) Average per farm Farms with net gains² Farms with net losses otal farm production expenses¹ Livestock and poultry purchased	number \$1,000 number \$1,000 farms \$1,000 farms \$1,000 farms \$1,000	672 721 11 730 98 725 36 374 2 138 164 16 838 519 803 24 144	.5 1.8 .2 .4 1.3	666 318 6 626 78 646 28 442 2 090 584 14 564 514 517 20 679	.5 .8 .7 2.0 .3 .4 .1.3 .7 .7 .6 .8 .9		

See footnotes at end of table.

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

		All fa	arms	Farms with sales	of \$10,000 or more	
ttem -		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative stand error of estim (perce	
al farm production expenses – Con.	forms	04.704	•	04 050		
	\$1.000	24 704 77 926	.8 1. <u>1</u>	21 850 76 227		
Petroleum products	farms \$1.000	34 983 144 494	.3 .7	27 979 139 444		
Electricity		30 525 42 341	.6 .9	25 230 40 162		
dired farm labor	. ,	15 293	1.3	13 966		
Contract labor	\$1,000 farms	94 911 3 661	1.0 3.3	94 279 3 285		
Repair and maintenance	\$1,000 farms	9 970 31 852	3.0 .5	9 686 25 967		
	\$1,000	147 840	.8	142 498		
Sustomwork, machine hire, and rental of machinery and equipment	\$1.000	19 994 58 0 6 6	1.1 1.9	17 221 56 216		
nterest	farms \$1.000	24 258 200 864	.9 1.0	20 744 195 016		
Cash rent	farms	16 905	1.3	15 413		
•	\$1,000	123 961	1.4	121 424		
roperty taxes	farms \$1,000	31 458 73 776	.5 .8	24 783 68 228		
If other farm production expenses		35 215 189 229	.3 .8	28 440 184 308	:	
estock and poultry:						
Cattle and calves inventory	farms	23 998 3 630 200	.2	20 547 3 539 764		
Beef cows	farms	19 034	.2 .2	16 368		
Milk cows	tumber farms	1 502 927 3 940	.2 .2 .2 .6	1 458 335 3 687		
n	umber	137 020	.6	136 193		
attle and caives soldn	farms	24 464 2 398 208	.2 .1	21 082 2 362 414		
ogs and pigs inventory		7 906 1 750 236	.4	7 292 1 730 302		
logs and pigs sold	farms umber	8 265 3 181 008	.4	7 652 3 152 668		
heep and lambs inventory	farms	3 960	.6	2 881		
n heep and lambs sold	umber	603 824 4 122	.6 .6 .5	555 388 3 004		
n	umber	551 032	.5	514 304		
ens and pullets of laying age inventoryn	farms umber	2 150 1 483 005	.9 .4 .	1 566 1 456 687		
roilers and other meat-type chickens sold	farms	269	2.6	204		
orses and ponies inventoryn	umber	237 779 7 073	1.5	223 897 5 081		
	umber	45 284	.4 .7	31 388		
ected crops harvested:						
orn for grain or seed	farms	19 448	.2	17 832		
b	acres ushels	2 573 567 199 208 883	.2 .2 .2	2 522 328 196 351 848		
orn for silage or green chop	farms	6 960	.4	6 776		
	acres green	374 158 3 077 579	.4 .5	369 813 3 050 106		
/heat for grain	acres	15 273 1 3 229 384	.2 .2 .2	13 874 3 148 874		
b	ushels	91 141 128	.2	89 486 331		
arley for grain		7 911	.4	7 474		
b	acres ushels	766 698 29 647 024	.3 .3	753 313 29 262 434		
ats for grain	farms	13 558	.3	12 532		
	acres ushels	919 997 41 997 525	.3	890 389 40 909 675		
unflower seed	farms	1 659	.8	1 604		
	acres	262 847 315 806 323	.5 .5	260 895 314 022 816		
·		0.0 000 020	.9	317 322 010		
ay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)		23 131	.2	19 885		
	acres ns, dry	3 355 299 5 682 824	.2	3 192 743 5 477 863	1	

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 f	arms	Farms with sales of \$10,000 or more		
ltem		Percent change	Standard error of estimate (percent)	Percent change	Standard error of estimate (percent)	
Farms		-2.1	.2	-3.9	.2	
Land in farms Value of land and buildings¹: Average per farm		.8 -22.1	1.1	2.2 -20.2	.1	
Total cropland	farms	-4.1	.2	-5.7	.2	
Harvested cropland	acres farms acres	4.3 -5.2 -10.1	.2 .2 .1	3.9 -6.4 -10.2	.2 .2 .2 .2 .1	
Irrigated land	farms acres	3.0 -3.9	.8 .6	1.2 -4.3	.8 .6	
Market value of agricultural products sold	farms \$1,000	-2.1 9.7	.2	-3.9 9.9	.2 .1	
Crops, including nursery and greenhouse crops	farms \$1.000	8 1.7	.2	-2.7 1.6	.2	
Livestock, poultry, and their products		-7.6 13.9	.2 .2 .2 .2 .2 .7	-8.1 14.2	.2	
Poultry and poultry products	farms \$1,000	-39.6 28.3	.2 .7 .4	-41.8 29.4	2 2 2 2 7 4	
Selected farm production expenses¹: Livestock and poultry purchased	farms	-2.8	1.8	-2.6	1.8	
Feed for livestock and poultry	\$1.000	16.5 -7.4	1.4	16.8 -6.0	1.4	
Seeds, bulbs, plants, and trees	\$1,000	3.2 -4.1 18.0	1.2 .9 1.4	3.6 -3.8 18.3	1.2 .9 1.5	
Commercial fertilizer ²	farms	11.1	1.6	10.4	1.5	
Agricultural chemicals ²	\$1 OOO	21.3 22.4	1.8	21.6 20.0	1.5 1.8 1.6	
Hired farm labor	\$1.000	44.7 6.1	2.5 2.0	44.5 9.3	2.5 2.2	
Interest ³	\$1,000	40.8 .5 -32.3	2.2 1.3 .9	43.9 -3.6 -32.8	2.3 1.2 .9	
Livestock and poultry inventory: Cattle and calves	forme	-11.1	.2	-10.9	9	
Hogs and pigs	number	-7.5 -15.3	.2	-7.1 -15.5	.2	
Hens and pullets of laying age	number	8 -34.6	.4	-15.5 7 -38.0	.2 .2 .4 .4 .6 .6	
Selected crops harvested: Corn for grain or seed	number	-8.5 4.0	.3	-7.0 2.3		
Sorghum for grain or seed	acres	4 -30.6	.3 .2 .6	6 -32.3	.2	
Wheat for grain	acres	-30.8 12.9 -3.1	.5 .3 .3	-30.9 11.0 -3.7	.3 22 .6 .5 .3 .3	
Soybeans for beans		43.8	.6	43.0	.6 .6	
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	acres	67.8	.6	67.9		
Vegetables harvested for sale (see text)	acres farms	-11.4	.2 3.8	-11.5 -8.9	.2 .2 4.0	
Land in orchards	acres farms acres	-11.9 16.4 68.1	5.1 6.2 17.2	-12.0 -3.4 6.2	5.6 7.4 2.3	

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	s and symbols,	see introduc	tory text]								r	
	Farm	ns	Land in	farms	Average valuand buildings		Estimated ma of all machi equipm	nery and	Harvested	cropland	lrrigated	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)	Total (acres)	Relative standard error of estimate (percent)
AuroraBeadleBennettBon HommeBrookings	496 872 304 787 1 004	.5 .3 .7 .3 .4	376 815 742 083 701 905 306 409 432 552	1.2 .7 .6 .7 .9	172 286 216 084 489 309 185 671 182 778	4.9 5.4 3.7 6.8 4.6	21 729 47 965 15 536 33 767 49 695	6.5 4.7 10.9 4.1 4.5	157 135 336 615 133 251 182 524 249 600	1.1 .6 1.2 .8	(D) 14 814 4 497 6 162 15 257	(D) 2.4 4.7 2.6 3.5
Brown Bruie Buffalo Buffalo Campbell	1 183 437 118 550 361	.4 .5 1.5 .5	992 938 471 546 302 783 1 104 452 425 661	.6 1.0 1.4 .5 1.4	281 179 252 046 683 881 480 278 236 323	4.4 6.6 (Z) 2.8 4.7	83 319 32 943 6 632 21 177 21 673	3.1 8.3 (Z) 7.8 7.5	544 022 175 295 61 909 91 295 162 953	.6 1.0 2.3 1.3 1.5	7 455 4 439 8 715 43 726 3 437	3.1 8.1 1.6 2.4 11.4
Charles Mix	830 688 498 636 492	.3 .7 .5 .4 .7	646 007 540 538 236 960 341 159 1 698 242	.6 1.2 1.2 .9 .5	231 159 234 946 275 547 197 574 631 864	5.8 4.5 4.2 5.8 9.1	50 115 42 007 31 135 28 935 31 589	4.5 5.4 5.5 6.0 10.5	300 817 251 255 174 850 193 856 237 853	.6 1.2 1.3 .9 1.2	11 738 6 483 8 295 1 381 986	2.1 3.3 4.9 2.5 17.5
Custer	303 464 778 690 386	.7 .8 .4 .5	477 361 246 207 571 305 351 278 1 687 248	1.0 1.5 .8 1.0	367 583 147 557 199 065 206 655 1 042 656	2.7 5.2 5.9 5.2 7.9	6 880 18 805 45 335 37 089 20 639	7.3 6.5 7.3 5.9 12.4	34 987 134 914 287 536 180 978 168 855	2.5 1.5 .9 1.1 1.4	5 187 3 073 2 557 2 097 (D)	3.4 7.6 5.4 12.1 (D)
Douglas Edmunds Fall River Faulk Grant	478 515 339 363 706	.7 .4 .5 .5	254 299 616 058 1 009 978 575 695 381 473	1.4 .8 .5 .8	201 851 239 087 451 885 365 603 222 360	5.7 3.9 3.9 5.1 5.7	27 193 37 042 10 449 24 557 39 628	4.8 7.6 9.9 6.1 5.3	144 187 284 936 53 389 245 214 219 210	1.3 .8 1.2 .8 .8	2 100 555 13 085 (D) 5 529	6.8 3.4 3.0 (D) 3.2
Gregory	670 344 501 614 413	.4 .8 .6 .5	568 487 1 249 261 283 805 1 028 286 245 382	.9 .6 1.2 .6 1.0	168 524 1 063 898 209 329 409 081 208 438	5.2 3.3 5.0 6.8 5.3	26 346 22 710 30 325 42 859 21 514	8.1 7.2 6.2 4.7 7.1	188 137 202 638 165 819 340 670 133 648	1.0 .8 1.2 .7 1.0	2 246 1 032 7 676 3 083 599	3.4 1.0 4.4 6.8 .1
Harding Hughes Hutchinson Hyde Jackson	301 297 995 231 314	.4 .9 .5 1.1	1 567 886 368 435 490 333 486 467 1 279 577	.2 1.4 1.0 1.3 .3	1 010 100 380 797 222 153 598 827 1 001 613	7.6 7.1 3.8 9.2 12.9	18 088 16 583 60 604 13 107 16 330	6.9 8.5 4.6 11.3 7.3	124 979 140 086 300 350 130 318 112 909	.4 1.5 1.0 1.6 .8	1 733 14 633 2 279 (D) 2 301	3.1 4.3 7.0 (D) 3.1
Jerauld	305 213 649 606 253	1.0 .7 .4 .4 .7	310 192 594 236 465 523 293 880 207 123	1.5 .7 .8 .9 1.7	238 866 554 803 239 037 212 543 287 242	8.7 3.0 4.2 8.1 4.7	13 782 14 292 42 853 28 354 4 602	4.0 6.0 4.6 5.5 12.6	116 410 124 889 247 613 178 286 26 987	1.4 1.0 .7 .9 2.3	2 097 956 1 434 1 658 3 346	6.8 3.5 7.4 - 5.3
Lincoln Lyman McCook McPherson Marshall	1 064 437 683 473 522	.3 .6 .6 .5	330 527 897 966 327 410 601 832 468 868	.8 .7 1.2 .8	216 679 536 593 172 597 221 578 271 746	6.7 9.7 4.4 4.1 6.2	43 861 28 349 38 217 27 969 37 879	3.7 5.2 6.4 5.4 9.7	234 210 235 965 191 971 226 139 234 681	.9 1.0 1.3 .9	1 202 7 676 40 2 330 1 256	5.1 1.1 13.8 12.1 4.2
Meade	826 233 488 1 382 662	.4 .8 .5 .4	2 019 812 649 232 327 880 432 472 280 774	.5 .8 .9 1.0	555 557 414 399 185 182 214 842 253 440	7.3 3.3 8.4 5.2 5.5	30 681 11 535 20 372 63 694 37 265	5.2 16.8 11.6 3.6 3.8	264 657 90 134 159 581 279 652 184 368	.8 1.4 .8 .9	6 868 1 157 72 2 376 2 036	3.1 2.0 26.1 7.0 8.2
Pennington Perkins Potter Roberts Sanborn	614 607 371 994 421	.5 .4 .8 .4	1 142 320 1 817 032 552 844 607 630 324 946	.5 .4 1.0 .8 1.6	446 036 590 906 394 388 206 607 187 891	6.2 9.6 7.8 4.8 4.2	26 180 35 799 31 846 55 467 16 070	8.3 6.8 5.6 4.6 8.9	149 465 264 592 218 410 337 886 122 132	.8 1.0 .8 1.7	8 860 2 308 3 526 3 066 (D)	3.6 4.5 4.2 6.3 (D)
Shannon Spink Stanley Stanley Todd	208 813 196 309 281	.7 .4 .8 .6 1.0	1 356 714 905 592 861 251 609 036 1 055 588	.2 .7 .4 .6 .7	920 288 332 625 1 208 566 861 274 645 740	2.1 6.8 1.9 6.7 1.6	6 467 66 092 11 548 26 104 15 796	5.3 3.4 3.6 6.8 12.7	51 466 502 754 125 641 288 317 106 690	1.5 .6 .9 .5	462 20 827 482 18 667 8 356	.2 2.6 15.0 1.9 3.6
Tripp Turner Union Walworth Ziebach	770 1 038 635 360 733 272	.4 .3 .5 .6 .4 .9	960 092 370 885 249 714 410 375 269 176 1 397 710	.7 .7 .9 .9	267 975 202 899 307 854 267 855 178 512 833 728	4.3 4.8 9.2 6.9 6.6 1.8	45 553 48 437 44 069 20 048 33 096 15 650	9.0 3.8 5.8 5.5 5.2 11.0	307 576 253 834 174 593 157 739 169 466 109 517	.9 .8 .9 1.0 .9	2 675 14 698 26 328 3 288 5 266 (D)	2.2 2.7 2.4 3.2 5.2 (D)
	Cattle and invent		Hogs and pig	s inventory	Corn for grai	n or seed	Wheat fo	r grain	Soybeans f		Market value o	
Geographic area	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Aurora	52 581 111 527 43 344 51 576 63 057	1.4 .8 1.4 .9	45 755 49 313 4 958 66 028 64 601	2.0 2.0 5.1 1.9 1.6	50 379 88 757 3 701 74 162 92 196	1.4 .9 3.4 .8 1.0	15 710 88 394 53 630 3 607 19 069	3.1 1.1 1.7 5.4 1.8	4 772 13 428 51 285 53 580	4.0 1.4 1.2 1.5	32 481 78 653 19 150 50 515 69 870	.9 .5 .9 .6

See footnotes at end of table.

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

	Cattle and calves inventory		Hogs and pigs inventory		Corn for grai	n or seed	Wheat fo	r grain	Soybeans f	or beans	Market value o	
Geographic area	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error o estimate (percent
Brown	105 913 69 578 25 473 44 807 43 920	1.0 1.2 2.1 1.2 2.0	45 356 37 512 2 837 3 429 7 869	2.4 2.0 10.3 11.2 4.4	93 730 46 539 11 243 7 414 11 397	1.1 1.4 2.5 4.3 3.3	220 987 23 457 10 885 18 025 64 710	.8 2.1 4.0 2.7 2.0	18 627 2 571 (D) (D)	2.0 3.3 (D) (D)	99 636 34 055 14 225 27 301 24 744	.8 1.3 .9 1.3
Charles MixClarkClarkClay Codington Corson	88 295 66 537 13 714 44 677 79 182	.8 2.2 2.3 1.3 1.2	70 567 25 551 33 980 13 202 3 729	1.4 2.3 2.1 4.4 7.1	98 116 52 223 69 371 33 835 6 397	.9 1.6 1.4 1.2 3.7	29 438 82 626 2 157 39 929 90 949	1.2 1.5 9.1 1.3 1.7	22 974 18 218 85 739 20 238 (D)	1.4 3.8 1.3 1.8 (D)	64 639 58 360 37 465 44 029 33 055	.8 1.0 1.0
Custer	27 098 33 314 47 750 48 532 50 859	1.3 2.1 1.2 1.5 1.7	558 30 353 15 126 17 241 6 011	5.8 3.6 5.4 3.8 8.7	611 50 031 25 248 48 108 8 201	6.2 1.7 1.7 1.3 4.0	4 541 6 643 109 385 23 587 58 713	15.0 5.5 1.3 2.2 2.1	16 261 8 437 30 419 (D)	3.1 4.2 2.1 (D)	9 494 25 228 40 970 41 703 22 053	2.0 1.4 .8 .9 1.5
Douglas Edmunds Fall River Faulk Grant	39 101 57 255 60 759 56 503 45 119	1.9 1.4 .8 1.2	63 595 28 422 2 376 19 066 17 852	2.6 1.2 6.8 1.9 3.8	52 730 13 938 3 119 14 094 45 984	1.6 1.6 5.0 1.8 1.1	8 291 108 023 8 927 84 702 48 106	3.8 1.0 2.5 1.1 1.2	10 270 427 142 472 40 993	2.8 15.4 39.1 16.0 1.5	35 929 34 465 64 969 28 012 50 545	1 .2 .6
Gregory	75 520 82 023 31 081 111 645 26 249	1.0 .9 1.8 .9 1.4	24 195 9 807 19 286 23 285 30 436	2.8 7.0 2.4 3.7 1.5	40 414 3 973 52 888 37 278 56 274	1.4 4.2 1.4 1.2 1.1	12 455 96 004 30 741 100 167 4 751	2.9 9 1.9 1.3 3.5	3 473 - 16 773 2 174 16 306	4.9 - 2.2 5.4 1.7	34 195 34 524 34 559 57 531 27 233	.8 .7 1.0 .5
HardingHughesHuchinsonHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHydeHy	59 147 27 382 73 484 49 873 56 107	.3 2.8 1.4 1.9	4 274 9 192 92 086 2 889 2 421	1.8 4.9 2.0 5.4 7.9	201 23 107 119 345 6 251 (D)	6.5 2.6 1.0 11.4 (D)	35 695 65 180 8 796 47 390 48 637	.7 2.0 4.1 2.2 1.2	1 369 82 649 (D)	6.9 1.4 (D)	22 450 19 429 69 956 18 273 20 707	.3 1.2 .8 1.5 .6
Jerauld Jones Kingsbury Lakeawrence	44 531 38 426 61 854 37 125 17 801	2.4 1.1 1.2 1.3 2.3	24 594 2 811 18 568 61 995 874	3.1 7.1 2.1 1.0 4.7	23 759 1 715 73 479 74 928 (D)	2.2 4.3 .8 .9 (D)	25 551 58 039 63 859 19 525 197	2.0 1.1 1.1 1.8 22.4	(D) 27 004 38 223	(D) - 1.6 1.5	29 032 17 764 59 723 56 479 8 550	1.0 .s .s .s 1.7
incoln yman McCook McPherson Marshall	32 705 58 633 46 090 64 996 72 256	1.4 1.4 1.7 1.1 1.0	52 583 10 499 55 901 16 568 27 635	2.0 5.9 2.5 2.6 2.1	99 734 10 661 75 539 6 198 42 319	1.0 2.8 1.4 2.2 1.5	1 002 101 876 4 042 65 125 88 205	11.5 1.4 9.5 1.2 1.1	109 850 329 54 123 (D) 3 463	1.1 17.8 1.8 (D) 4.5	63 824 34 813 43 452 32 725 67 552	.7. .8. 1.0 .8. .8.
Meade	114 710 46 300 45 342 64 578 38 929	.8 .9 1.2 1.2 1.9	5 172 5 301 29 541 78 587 50 110	10.4 7.4 1.6 2.5 2.0	1 109 1 867 47 695 122 529 75 791	3.5 6.2 1.0 1.0	63 650 28 426 21 728 7 382 7 218	1.6 2.1 1.6 2.8 3.0	(D) 14 360 93 618 70 763	(D) 1.8 1.3 1.2	42 875 16 978 29 888 95 482 58 652	.7 .8 .8 .6
Pennington Perkins Otter Roberts Sanborn	56 547 97 601 41 987 56 504 49 462	1.1 .9 1.5 1.6 1.9	2 355 6 882 20 115 42 209 19 055	6.7 6.7 6.7 2.2 5.2	1 340 3 688 26 048 56 422 44 184	5.2 3.3 1.9 1.1 1.8	62 274 86 966 99 250 84 068 9 379	1.1 1.3 1.2 1.1 6.3	280 (D) 52 903 3 426	14.0 (D) 1.5 6.7	25 513 42 637 33 041 57 924 38 670	.7 .6 .9 .7
Shannon	28 890 91 702 41 027 51 046 65 471	1.8 .9 .6 .8 2.0	2 837 57 882 926 7 829 2 713	.1 1.6 8.2 1.7 10.8	630 94 301 398 41 808 7 492	- .8 7.0 1.4 4.6	25 751 194 416 77 409 166 337 6 362	2.5 .7 1.4 .7 5.7	56 460 2 100 (D)	1.2 1.5 (D)	9 182 93 258 21 165 49 961 21 976	1.1 .4 .4 .3 1.4
Fripp	107 193 57 379 22 585 35 708 37 079 42 761	1.0 .9 2.3 1.5 1.3	41 223 75 559 54 205 12 629 66 083 3 837	2.4 1.7 2.0 2.7 1.5 8.4	33 782 100 925 82 985 14 453 63 574 2 532	1.6 .9 .8 1.6 1.1 19.9	65 302 2 839 3 871 64 125 1 111 49 792	1.6 4.5 9.6 1.4 6.3 2.3	1 031 104 479 69 781 1 122 60 863	3.5 1.0 1.1 19.2 1.3	49 666 96 690 50 447 22 765 50 538 17 872	.7 .4 .€ 1.0 .7 1.2

	Selected farm production expenses¹													
Geographic area	Livestock a purch		Commerci	al fertilizer	Hired fa	rm labor	Petroleum	products	Electricity for th	e farm business				
- Coograp.iio area	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)				
Aurora Beadle Bennett Bon Homme Brookings	6 704 17 707 2 537 11 897 10 669	8.5 5.9 4.2 3.8 3.7	1 065 2 844 432 1 658 3 072	9.4 7.0 6.2 4.2 3.8	981 3 117 800 1 279 3 590	10.8 8.3 5.1 4.0 2.5	1 991 3 908 1 238 2 339 3 326	7.6 3.2 7.5 4.2 3.1	530 1 167 330 808 1 377	6.3 4.5 8.1 4.8 4.7				
Brown Brule Buffalo Buffalo Bufte Campbell Buffalo	20 750 5 904 3 421 5 167 4 358	1.9 7.1 (Z) 7.9 6.4	5 224 1 001 349 401 638	2.4 5.3 (Z) 17.1 8.4	3 611 1 301 494 872 707	3.1 30.3 (Z) 7.3 7.2	5 619 2 136 554 1 502 1 621	3.6 7.7 (Z) 10.3 7.0	1 294 588 181 400 440	3.5 10.7 (Z) 11.1 8.2				

See footnotes at end of table.

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

				s	elected farm pro-	duction expenses	1			
Congression area	Livestock a		Commerci	al fertilizer	Hired fa	rm labor	Petroleum	products	Electricity for th	e farm business
Geographic area	Total (\$1,000)	Relative standard error of estimate (percent)	Totai (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Charles MixClarkClayCodingtonCorson	8 875	4.8	2 717	3.8	1 915	3.3	3 821	5.7	1 338	8.1
	13 225	1.2	2 177	5.6	2 442	4.0	3 513	5.1	805	4.9
	3 411	5.9	1 766	5.2	961	2.8	1 903	4.3	638	4.8
	4 967	9.6	2 428	10.1	2 410	2.2	2 636	7.4	809	5.0
	4 903	6.5	552	7.1	961	1.4	2 255	7.3	470	7.6
Custer Davison Day Deuel Dewey	1 302	7.7	37	12.1	405	24.7	505	6.1	161	6.5
	3 162	9.3	1 108	7.5	705	2.9	1 346	7.2	510	11.2
	5 216	4.8	2 648	7.1	1 367	7.8	2 983	4.2	789	6.1
	7 650	11.3	2 268	6.4	1 028	6.9	2 675	5.5	840	4.9
	2 143	12.7	283	22.5	574	18.2	1 731	4.6	386	13.0
Douglas	5 727	8.1	1 289	5.7	1 077	8.8	1 824	3.5	712	5.4
	4 233	10.3	1 218	7.2	1 092	11.4	2 425	4.7	649	6.4
	38 974	.3	87	6.7	1 197	1.3	923	4.8	298	8.6
	2 560	7.7	1 307	6.6	918	13.3	2 038	5.2	468	13.8
	7 662	4.7	2 422	4.6	1 836	7.3	2 677	4.0	911	5.3
Gregory Haakon Hamlin Hand Hanson	3 780	10.0	963	6.8	1 039	5.6	2 100	6.4	524	7.5
	6 176	4.8	625	3.7	1 616	6.4	1 931	4.3	333	4.9
	4 009	4.5	2 140	5.5	1 214	9.7	2 097	7.1	662	6.6
	12 934	3.3	1 875	4.0	1 987	5.7	3 115	2.8	805	4.1
	2 566	9.0	1 339	7.3	739	8.6	1 752	4.7	670	4.8
HardingHughesHutchinsonHydeJackson	4 023 1 982 7 272 2 802 4 098	6.8 16.2 9.2 10.2 10.9	271 809 3 207 659 319	8.4 4.2 3.4 9.3 20.3	895 852 2 019 902 676	1.4 6.4 5.1 11.1 14.7	1 391 1 203 4 091 1 206 1 160	6.0 5.1 3.6 7.1 7.5	317 355 1 338 271 279	8.3 16.5 3.6 8.1 7.9
Jerauld Jones Kingsbury Lake Lawrence	7 051	2.4	858	6.4	943	1.0	1 291	3.9	381	6.8
	2 760	21.3	472	18.5	1 001	13.0	1 235	10.5	219	15.5
	14 666	.9	2 767	4.9	1 467	.9	2 711	3.2	773	8.9
	8 160	4.5	2 244	10.1	3 151	2.2	2 367	5.2	846	3.8
	1 353	10.3	20	21.5	330	10.9	614	15.8	146	14.0
Lincoln	9 599	6.2	2 747	5.5	1 526	3.3	2 605	3.1	873	3.5
	3 062	7.0	921	8.9	1 289	4.9	2 182	4.3	506	5.7
	4 837	8.6	2 224	4.9	1 402	4.9	2 436	4.6	844	4.3
	4 682	9.0	560	11.1	1 076	2.4	2 211	4.9	656	4.9
	24 624	1.7	2 283	6.1	1 941	3.0	2 434	3.5	686	3.5
Meade	6 291	7.4	317	10.6	1 505	6.3	2 474	3.8	571	4.3
	2 860	8.8	314	5.7	664	9.4	956	10.5	230	16.1
	3 593	3.1	1 072	7.3	885	2.7	1 397	5.1	510	5.7
	17 490	4.1	3 448	5.5	3 063	1.4	4 055	2.6	1 600	2.8
	11 133	4.5	2 395	4.3	1 904	7.0	2 562	4.5	834	4.1
Pennington Perkins Potter Roberts Sanborn	3 961	21.0	356	11.5	1 243	10.0	1 629	5.4	395	8.3
	8 158	4.2	912	8.4	1 657	6.0	2 763	6.0	588	7.9
	6 224	5.4	1 430	7.8	1 950	20.5	1 879	5.4	601	7.8
	7 451	8.7	2 959	4.2	2 230	5.0	3 964	3.8	1 035	4.9
	16 620	2.0	872	6.2	1 238	6.1	1 363	6.9	391	5.7
Shannon	1 356	16.4	182	13.3	507	17.3	540	6.1	119	8.6
	20 619	2.9	4 597	3.7	2 952	5.5	4 629	2.7	1 497	2.9
	5 204	1.9	273	1.5	925	.8	1 070	2.4	204	3.5
	16 070	1.1	1 532	19.8	1 997	3.5	2 496	6.7	660	20.7
	3 577	7.4	274	1.8	890	11.4	1 308	9.1	477	14.6
Tripp	7 734	6.6	1 599	8.0	1 474	4.8	3 163	4.6	592	6.5
	24 244	2.4	2 561	4.6	2 889	2.1	3 206	3.4	1 231	5.5
	9 299	9.1	2 735	9.7	1 970	5.5	2 234	4.3	806	3.5
	2 888	12.1	1 042	9.7	571	10.3	1 443	5.1	530	7.5
	9 443	3.1	1 254	5.3	1 994	3.5	2 344	6.4	736	3.8
	2 026	8.8	332	8.2	697	15.7	1 395	12.2	349	29.5

¹Data are based on a sample of farms.

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

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

	Not on	mail list	Percent no	t on mail list
ltem	Total number	Relative standard error of estimate (percent)	Total percent	Standard error of percent
Farmsnumber	546 47 693	5.5 86.0	1.5 .1	.1
Farms by size: Less than 50 acres	(S) (S)	(S) (S)	(S) (S)	(S) (S)
Harvested croplandfarmsacres	360 37 433	50.6 88.5	1.1 .3	.6 .3
Farms by value of sales: farms_ Less than \$2,500	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)	(S) (S) (S)
Market value of agricultural products sold \$1,000	3 637	98.1	.1	.1
Farms by standard industrial classification: Crops (01)	(S)	(S) (S)	(S) (S)	(S) (S)
Farms by tenure of operator: Full owners	546 -	5.5	3.6	.2
Operators by principal occupation: Farming	(S) (S)	(S) (S)	(S) (S)	(S) (S)
Average age of operatoryears	43.4	(Z)	(Z)	(Z)

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

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

APPENDIX D. Report Form and Information Sheet

DUE BY FEBRUARY 1, 1988					34: Approval Expires		
FORM 87-A0208 U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	NOTICE — Res THE CENSUS B only for statistic	sponse to this inquiry is required by Is BUREAU IS CONFIDENTIAL. It may be cal purposes. Your report CANNOT be ovides that copies retained in your fife	w (title 13, U.S e seen only by e used for purpo	. Code). By the sworn Censuses of taxati	ne same law Y(us employees a on, investigation	OUR Ri and ma on, or i	EPORT TO by be used regulation.
UNITED STATES CENSUS		ence pertaining to this report, plea				N)	
OF AGRICULTURE				8	37-A0208		
Please complete this form and RETURN TO Jeffersonville, IN 47133	1				ļ		
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.	<u>!</u>						
If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.							
CENSUS 035 036 037 038 USE 039 040 041 042							
SECTION 12 ACREAGE IN 1987 Report land owned, rented, or us		ect errors in name, address, and ZIP					
by you, your spouse, or by the partnership, corporation organization for which you are reporting. Include ALL L REGARDLESS OF LOCATION OR USE — cropland,	AND,	INSTRUCTIONS — Please rep Use section 7 to report ONLY t and section 8. DO NOT INCLU	hose CROPS	NOT liste	d in sections	3 2 th	rough 6
pastureland, rangeland, woodland, idle land, house lot If the acres you operated in 1987 changed during the year,	s, etc.	SECTION 2: Were any of the f	ollowing CRO	PS harveste	d from "THIS	PLAC	CE"
	lumber of acres	s2 None	Acres harvested	Quantity	harvested		Acres rigated
1. All land owned		1. Corn (field) for grain or seed (Report quantity on a dry shelled-weight basis.).		000	Bu.		
2. All land rented or leased FROM OTHERS, including land worked by you on shares, used rent free, in exchange for services, payment of taxes, etc. Include leased Federal, State, and railroad	14	2. Corn (field) for silage or green chop	070	071	Tons,	072	
land. (DO NOT include land used on a per-head basis under a grazing permit.) Also complete item 5 below.		3. Soybeans for beans	088	089	Bu.	090	
3 . All land rented or leased TO OTHERS, including land worked on shares by others and land subleased. Also complete item 6 below.	·	4. Beans, dry edible	073	074	Cwt.	556	
4. Acres in "THIS PLACE" - ADD acres owned (item 1)	048	5. Wheat for grain, including durum			Bu.		
and acres rented (item 2), then SUBTRACT acres rented TO OTHERS (item 3), and enter the result in this space.		6. Oats for grain	076	077	Bu.	078	
For this census report these are the acres in "THIS PLACE." If the entry is zero please refer to the INFORMATION SHEET, section 1		7. Barley for grain	686	687	Bu.	688	
5. If you rented land FROM OTHERS (item 2), enter the following information for e		8. Rye for grain	605	606	Bu.	607	
Name of landlord Mailing address (Include ZIP Code) N	lumber of acres	9. Flaxseed	734	735	Bu.	736	
	i	10. Sunflower seed	719	720	Lbs. Tons	721	
List additional landlords on a separate sheet of paper.			097	098	Cwt.	099	/10
6. If you rented land TO OTHERS (item 3), enter the following information for	-	12. Potatoes, Irish	Y, GRASS SIL	AGE, HAYL	AGE, or GRE	EN CH	
Name of renter Mailing address (Include ZIP Code) N	umber of acres	or harvested from Include sorghum	n ''THIS PLAC	E" in 1987?	?		
		⁵³ 1 YES — Comple				ction 4	ŗ
		If cuttings were made for both dry from the same fields, report the ac HAY and also under GRASS SILAG	reage in the appr	opriate items	under DRY		
a. Of the land you rented or leased to others, how many acres did you own?	Acres	1. DRY HAY (If two or more cut hay were made from the same at acres only once, but report total cuttings.)	cres, report	Acres harvested	Quantity harvested (Report either or green weigh indicated)	d dov	Acres irrigated
7. Did you have any grazing permits on a per-head basis?		a. Alfalfa and alfalfa mixtures hay or dehydrating	ror	103	104 T	ons,	105
1 Yes — Mark (X) all boxes which apply } 4 Taylor Grazing :	Sec. 3 (BLM)	b. Small grain hay — oats, who barley, rye, etc.	eat,	106	107 T	ons, ry	108
2 ☐ No — Go to item 8 (e ☐ Other — Specif	<u>ت</u>	c. Other tame dry hay — clove Sudangrass, millet, bromegi crested wheatgrass, etc	r, timothy, rass,	109	110 T	ons,	111
8. LOCATION OF AGRICULTURAL ACTIVITY FOR "THIS PLACE"		_	j	112	113 T	ons,	114
agricultural products raised or produced?	lumber of acres	d. Wild hay	, AND cuttings report	115	116	ons,	117
b.If you also had agricultural operations in any other Other		acres only once, but report total all cuttings.) 3. HAY SOLD — Did you sel		118	g	ons, reen	
county(ies), enter the counties of county name(s), etc	59	or grass silage in 1987? (Ru of hay sold in section 9, item 2)	eport value	1 Yes	2 N	0	

	from '	GETABLES, THIS PLACE	SWE	ET CORN, ! 1987? <i>(Do</i> :	WELONS, not includ	etc., han le those g	rested FO	OR ·	∯.SECT	ION 6	N W	ere any S THIS PLA	TRAV	VBERRIE in 1987?	S or OT (Do not	HER BERF include th	RIES harvest ose grown f	ed FOR SA or home us	LE from
54	YES	- Compl							l					Compl		ection			
		- Compli									2	□ NO	-	Go to s	ection 7				
					res	1 40	res irriga	rad	Cr	rop na	me	Code		cres harv		Quantity	harvested		migated es Tenths
1. Land from which ve	erretahl	es were		Whole acre		ns Whole		Tenths				+	90130	ne acres		534		535	
harvested in 1987				375	1 1	376	i i	/10	Raspb	ernes	•	533	╁		/10	537	Lbs.	538	/10
2. From the list below if more than one ve	, enter	the crop nam	e and	code for ea	ch crop h	arvested i	n 1987.		Straw			536	\vdash		/10	540	Lbs.	541	/10
each crop. Report of	rops g	rown under p	rotec	tion in secti	on 5.				Other Specify		es –	539			1				l l
Crop nan	ne		ode	Acres h	arvested	462	res irriga	ted			**			sheet of	/10		Lbs.		/10
Sweet corn			461	 		10		/10	SECT		- 1					-d from "	THIS PLACE	" L 1007	
		-				10		/10				ains, fiel	d seec	is, sorgh	um, dry	peas, or ot	her crops no		
				 	<i>1</i>	10		/10	ł		S7 F6	ported!	Kepo	rt fruit in	section	8.)			
				ļ	1	10		/10						Compl		ection			
						10		/10	1		2	□ NO	-	Go to se	ection 8				
If more space is needed, u	50 2 500	prote chast of	nener	<u> </u>	1	10		/10	For the Report	ose cr	rops no	ot listed (nter i	the crop	name ar	nd code fr	om the list b	elow.	
Crop name	⊸e a selp	Code		Crop na	me			Code			name			Acres h		' 	ty harvested	Acres	irrigated
Beans, snap (bush and Beets			1	Onions, Peas, gr	green			435 441	Sorghu	um fo	r grain	or		 		083	<u> </u>	084	
Broccoli		385	I	Pumpkir	sweet .			449	seed -	Includ	de milo		082	ļ		086	Bu.	087	
Cantaloups andmuskmelons		395	ì	Squash	s			459	Sorghu green	chop	(Do no:	t		-					
Carrots		399	ı	Turnigs	BS			465	Include crosses	sorgh	um-suc	ian	085				Tor gre		
Cucumbers and pickle Lettuce and romaine Onions, dry		427	1	Other ve	elons getables –				Alfalfa	seed	<u>.</u>		542			543	Lbs	544	
		JRSERY and							Buckw	vheat	:		575			576	Lbs	577	
buibs	, flowe	rs, flower se	eds, v	egetable se	eds and p	lants, veg	retables	under	Canary	varass	s seed		770			771	Lbs	772	
•		er protection,			ALE on "1	THIS PLAC	CE" in 19	987?	Canary				752			753	Lbs	754	
	NO	- Comple				Area irri	pated		Musta				650		· · · · · ·	651	Lbs	652	
]		GUZUS	CHOI	None		feet	Acres	Tenths	Proso				665			668	Bu.	667	
1. Nursery and greent	iouse c	rops irrigated	1 in 19	987[477	47	78 I	/10	Safflor				692			693	Lbs	694	
2. From the list below,	, enter 1	the crop nam	e and	code for ea	ch crop g	rown.			301110	W.C.			092			1	103	2	
	L .	Square for under glas		Acres in t	he open	Sale	es in 198	37								1		2	
Crop name	Code	other prote	ction	in 19 Whole acres		Doll	nre.	Cents								1		2	
				1	/10	2	101.5	00								1		2	
	 	 		1	!	2		1			is neede	ed, use a s	perate	sheet of p		l		_1	
	 			1	/10	2		00	Crop na Brorneg	græss s	eed (p	ounds)		56	9 R		oounds)		
If more space is needed, u	se a sep	arate sheet of p	ерет.		/10	\$		00	or grad	zed fre	anost si	ier, hogge cres only) sheis)		58	15	orahum cut	eed (pounds)	IR .	
Crop name Bedding plants (Include	vecetab	Co de plants) 47	79	Potted flo	e wering ola	ots		Code 710	Fescue	seed ((pounds	s)		60:	2 S	orghum ho	is, dry) gged or graze as only)	d	701
Bulbs (Exclude bulb flow Cut flowers and cut flow	<i>vering p</i> rist gree	ens 48	19 1	Mushroom Sod harv	ns			. 494 . 497	Kentuci Lentils	ky blus (poun	egress : ids)	seed (pou	nds).	63	9 i S	westclover	seed (pound	s)	737
and nut trees, and vine	entais, i	munt 48	18 E	Vegetable Greenhous	and flowe e vegetab	r seeds les		. 500 . 503	Mint for Peas, dr	roil (pe rvedib	ounds	of oil) dredweig	ht)	65	# V	etch seed (/heatarass	pounds) seed (pound:	s)	755 758
Foliage plants				Other —								elled)				ther crops	(pounds) —	Specify	752
I		compined to	ZEI CT	20 or more	FKUII II	izes, mci	waing G	HAPEV	ines and	i NU!	IMEE	5, on "11	115 PI	LACE" M	19877				
_	YES	CompleGo to se	rte thi	is section o		Г	Tota	al acres		Acre	es irrig	ated							
1. TOTAL ACRES in					vinevan	te .	Whole ac	res T		Vhole a	эсгев	Tenths							
and nut trees on this	s place.	. (Do not incl	ıde əl	bandoned a	cres.)	13,		!_	/10		!	/10							
2. For those crops not Report the requeste	listed b	elow, enter t	he na ch cro	me and cod	e from the	e list at th	e right fo	or other	fruit and	nut tre	ees on	this plac	e in 19	87.					
			IBER		· · · · · ·	in trees		p			f meas								
Crop name	Code	TREES OR	VINE		and	rines of		Quantit	y L	Ma	ark one	Lbs.	7						
1		Nonbearing age		Bearing age	Whole at	ages res Tenth	_	arveste	ed L	.bs. T	ons Bo		1	Cre	p name			Code	
Apples	123	<u>~_</u>	124		126	/1	128		12		2 3	128	1	Gra	pes			177	
Sweet cherries	345		346	3	347	/1	348		34	19		350	1	Pea Plu	ms and	prunes		231	
Tart cherries	587	-	588	1	589	/1	590		59	91	2 3	1592	1	Otl	er fruit a	nd nuts —	Specify	369	
			1		2	/1	3		4				1						
			1		2		3		4			16	1						
			+-		2	1 /1	3		14				1						
If more space is needed, us	se a sept	arate sheet of p	aper.	-	I	1 /1	U				2 ∐ [31	□ i							
FORM 87-A0208 (9-2-86)																			

GROSS VALUE of CROPS SOLD from "THIS PLACE" in taxes and expenses (Refer to the INFORMATION SHEET, see	1987, BEFORE	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 following gro	ups of crops sold	1 YES — Complete this section
from this place in 1987. Include the value of the landlord's and/or c estimating if necessary. Include value of Government CCC loans.	ontractor's snare,	2 NO — Go to section 14 INVENTORY Number on this
1. Grains, soybeans and other beans sold in 198/	Pollars Cents	803
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
c. Soybeans	1 00	b.MILK COWS kept for production of milk or
d. Sorghum for grain	00	cream for sale or home use — Include dry Milk milk cows and milk heifers that had calved
e. Barley \$	00	806 Heifers and
f. Oats	00	c. HEIFERS AND HEIFER CALVES — (Do not include heifer calves)
g. Other - rye, flaxseed, sunflower seed, dry beans, dry peas, mustard seed, buckwheat, safflower,		d. STEERS, STEER CALVES, BULLS, Steers and buils of
proso millet, etc	00	AND BULL CALVES all ages
2. Hay, silage, field seeds, and grass seeds		CATTLE AND CALVES SOLD FROM THIS PLACE IN 1987
3. Vegetables, sweet corn, and melons — (Do not include		Include those fed on this place on a Number sold Gross value of sales
Irish potatoes and sweetpotatoes, report them in item 5 below.)	. 00	contract or custom basis. Also report as sold cattle moved from this place None to a feedlot for further feeding.
4. Fruits, nuts, and berries — apples, cherries, grapes, etc. \$	1 00	2. Calves weighing less than 500 pounds
5. Other crops — potatoes, sugar beets, rapeseed, etc. (Do not include nursery and greenhouse crops.) —	į	3. Cattle, including calves weighing
Specify \$. 00	500 pounds or more
SECTION 10 How were the ACRES in this place USED in 1987?		B-Of the total cattle sold, how many were FATTENED on this place on GRAIN or 812 813
s10 1. Copy acres in "THIS PLACE" from section 1, item 4, page 1	Acres	CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?
NOTE: For items 2 to 5 below, if land was used for more than one purpose report it in the FIRST land use listed below that applies. For example, report it	in 1987	DAIRY PRODUCTS COLD FROM
harvested and also pastured, only as "Cropland harvested."	Number of acres	DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1987 None Dollars Cents One Dollars Cents
a. Cropland harvested — Include all land from which crops	787	4. Gross value of sales of DAIRY PRODUCTS from this place in 1987 — Include milk, cream,
were harvested or hay was cut, and all land in orchards, citrus 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	788	SECTION 45 Did you or anyone else have any HOGS or PIGS on this place in 1987?
edditional improvements. c. Cropland used for cover crops, legumes, and soil-	789	1 YES — Complete this section INVENTORY
improvement grasses, but NOT harvested and NOT pastured		2 NO - Go to section 15 Number on this place Dec. 31, 1987
d. Cropland on which all crops failed — (Exception: Do not report here land in orchards and vineyards on which the crop	790	• DECEMBER 31, 1987 INVENTORY
failed. Such acreage is to be reported in item 2a.)	791	816
e. Cropland in cultivated summer fallow	793	a. HOGS and PIGS used or to be used for BREEDING Breeding b. Other Other
f. Cropland idle	794	
3. Woodland — Include all woodland pastured	795	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		a. December 1, 1986 and May 31, 1987
4. Other pastureland and rangeland — Include any pastureland other than cropland and woodland pasture.	796	b. June 1, 1987 and November 30, 1987
5. All other land — Land in house lots, ponds, roads, wasteland,	797	Number Gross value of sales
etc. — Include any land not reported in items 2 through 4 above	798	HOGS AND PIGS SOLD None in 1987 Dollers Cents
(Should be the same as Item 1 above.) SECTION 11: Was any LAND in this piece IRRIGATED at any time in 19	1973	3. HOGS and PIGS SOLD from this place in 1987
Irrigated land is all land watered by any artificial or controlled means - sprint	ders, furrows	4. Of the hogs and pigs sold, how many were
or ditches, spreader dikes, etc. Include supplemental, partial, and preplant in	igation.	sold as FEEDER PIGS for further feeding? \$: 00 SECTION 152 Did you or anyone else have any SHEEP or LAMBS on this place in 1987?
1 YES — Complete this section 2 NO — Go to section 12 None	Number of acres irrigated	815
1. How many acres of harvested land were irrigated?	580	1 YES — Complete this section 2 NO — Go to section 16
Include land from which hay was cut and land in bearing and nonbearing fruit and nut crops reported in section 10, item 2a		INVENTORY NUMBER SOLD
2. How many acres of pastureland, rangeland, and any other	681	None place Dec. 31, 1987 in 1987
lands not included in item 1 above were irrigated?		1. SHEEP and LAMBS of all ages
SECTION 121 Were any ACRES in this place SET ASIDE, DIVERTED, Of under FEDERAL acreage reduction programs in 1987?	K IDLED	a.EWES 1 year old or older
1 YES — Complete this section		Number shorn Pounds of wool
2 NO — Go to section 13 None	Number of acres	None in 1987 shom in 1987
How many acres were set aside (or diverted) under ANNUAL	682	2. SHEEP and LAMBS SHORN
commodity acreage adjustment programs?		Gross value of sales None Dollars Cents
2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)?	683	3. What was the gross value of sales of SHEEP, LAMBS, and WOOL from this place in 1987?

≴ S	ECTION:16% Did you or anyor	ne else have any H OCK, or ANIMAL	ORSES, BI	ES, FISH	GOAT	S,		SECTION 18 GOVERNMENT CCC LOANS							
1	S18	Complete this sec			-	to section	• 7	\$18							
		INVENTORY	Τ		Conn	s value of s		1. Amount received in 1987 from Government CCC loans for - None Include regular and reserve loans, even if redeemed or forfeited.	Cents						
	11	Number on this place Dec. 31, 1987		mtity sold 987	<u> </u>	oliars	Cents	a.Com	00						
1	. Horses and ponies of all ages	830	831		832	-		b. Wheat	00						
	or an ages LJ	839	840	Number	842		00	c.Soybeans	00						
١.	O-1	\ \	841	Number Pounds	}	!	00	d. Sorghum, barley, and oats	00						
4	Cotonies of bees L		844	honey		i		891							
İ		843	845	Number	17] 1		e. Rye and honey	00						
3	- Milk goats		848	Gellons)* 	i	00	in 1987 (DO NOT INCLUDE CCC loans.) Refer to INFORMATION							
		847	849	Number	850	! !		S19 None Dollars C	Cents						
4	Angora goats	851	852	Pounds mohair	\$ 853	i	00	1. Amount received in cash \$	00						
5	Other goats		652	Number		!	00	2. Value of certificates received — payment-in-kind (PIK) or commodity certificates	00_						
1	.Mules, burros, and	833	834	110111261	835	i	- 00	SECTION 20% TYPE OF ORGANIZATION							
١_	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	\$	į	00	this place in 1987. Refer to the INFORMATION SHEET, section 20.							
8	Rabbits and their	854	85.5		856			FAMILY or INDIVIDUAL operation — (Do not include partnership and corporation.)							
9	peits		 	Number	\$		00	PARTNERSHIP operation — Include family partnerships. 2	22						
	livestock products	857	858		859	I I		• INCORPORATED UNDER STATE LAW 3 Go to section 2	?1						
	Specify	Γ=	l Gra	Number ss value o		, i	00	OTHER, such as estate or trust, prison farm, grazing association, Indian reservation, etc	then						
10	Fish and other aquaculture products (Enter name and	Total quantity in 1987	30.0	Dollars	Cents	1		association, Indian reservation, etc	2						
	code from list below.) Name Code	ORP	unds 2		!			Specify							
		Nu	mber \$		00]		SECTION 21st CORPORATE STRUCTURE (for incorporated operations only) Refer to the INFORMATION SHEET, section 21.							
Ì	Catfish		Name Other fish	- Specify	<i></i>	Code		521 922							
	Trout		Other aqu					1. Is this a family-held corporation?	0						
€ีS	CTION 17 Did you or anyon	ne else have any PC	DULTRY, s	uch as CH	ICKEN	S,		2. Are there more than 10 stockholders?							
	for others on a c	KS, etc., on this pl contract basis.	ace in 198	77 — Incl	-	itry grown	'	SECTION 222 CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner or person in charge) Refer to the INFORMATION SHEET, section 22.	T .						
	1 T YES -	Complete this se	ction	Numbe this pl	r on	Total nun sold in 19		1. RESIDENCE — Does the operator (senior partner or 923							
	- 	Go to section 18	None		1987	893		person in charge) live on this place?	0						
	HENS and PULLETS of laying PULLETS for laying flock repli				<u> </u>)		2. PRINCIPAL OCCUPATION — At which occupation did the operator spend the majority (50 percent or 928							
	a.PULLETS 3 months old or old		gage 🔲 🛚	894 896		895		more) of his/her worktime in 1987? For partnerships consider all members of the partnership together.	ther						
	b.PULLET CHICKS and PULLET (Do not include commercial brown)	Sunder 3 months	old			ŀ		3. OFF- FARM WORK — How many days did the operator 7. None							
	BROILERS, fryers, and other r			898		889		(senior partner or person in charge) work at least 4 hours per day off this place in 1987? — Include work							
	including capons and roaster TURKEYS	s	_	900		901		at a nonfarm job, business, or on someone else's farm for pay. (Do not include exchange farmwork.)							
	a.Turkeys for slaughter (Do no		🗆	902		903		s 🔲 150—199 days							
	b.Turkey HENS kept for breed	g	🗆	·		· - · · · ·		e ☐ 200 days or more	e						
5.	OTHER POULTRY raised in ca geese, pigeons or squab, pher (Enter poultry name and code from	asants, quail, etc.						4. In what YEAR did the operator (or senior partner) begin to operate any part of this place? Year	ļ						
	Poultry name.	Code				1		925 5. AGE of operator (senior partner or person in charge) Years old	.]						
	Poultry name	Code		·				924	'						
	Name Code	Name Pigeons or squab	Code	Neme	· · · · · · ·	Code		1 White 2 Negro or Black							
		Pheasants	910	All oth	er poultr	y - 914		6 RACE of operator (sepior partner or person in charge)							
6.	POULTRY HATCHED on this pla placed or sold — chickens, turk	ace in 1987 and	None		Numbe			4 Asian or Pacific Islander							
	Specify kind of poultry	oya, uveks, etc. —	_ []	16				9 ☐ Other — Specify							
_	Incubator egg capacity on De	cember 31, 198		17				926							
			,	oss value o	fealar			7. SEX of operator (senior partner or person in charge) 1 Male 2 Fe	male						
8.	What was the gross value of sal	les of None	e	Dollars		Cents		8. SPANISH ORIGIN — Is the operator (senior partner							
	poultry and poultry products (eg etc.) from this place in 1987?		918		- 1.	00		or person in charge) of Spanish origin or descent (Mexican, Puerto Rican, Cuban, or other Spanish)? 1 Yes 2 No	。						
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#SECTION.23* PRODUCTION EXPENSES paid by you and oth place in 1987	ers for	this		CSECTION: 255 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 landlor	rd, con	tractors,	I	1 YES — Complete this section 2 NO — Go to section 26								
buyers, and others for production of crops, livestock, and other a in 1987. (DO NOT INCLUDE expenses connected with performi others; operation of nonfarm activities, businesses, or services; c	ing cus	tomwork for		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								
	None		ents	treated for each purpose.								
Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc.			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		b. Nematodes in crops								
hay, silage, mixed feeds, concentrates, etc	ᄓ	\$ 1	00	c. Diseases in crops and orchards (blights, smuts, rusts, etc.)								
complete, supplement, concentrates, premixes. (Do not include ingredients None Dollars 1	Cents			d. Weeds, grass, or brush in crops and pasture —								
purchased separately, such as soybean meal, cottonseed				Include both pre-emergence and post emergence. 2. Chemicals for defoliation or for growth control								
meal, and urea.)	00	974	***	of crops or thinning of fruit								
cotton, etc. — Include plants and trees purchased		\$ I	00	See Include only equipment used for agricultural operations in 1986 or 1987.								
4 - Commercial fertilizer purchased — all forms, including rock phosphate and gypsum.		Į.	1	 Value of ALL machinery and equipment on this place, December 31, 1987 								
Include cost of custom applications.		976	00									
5. Agricultural chemicals purchased — Insecticides, herbicides, fungicides, other pesticides, etc. — <i>Include</i>		i		What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place Dollars Cents								
cost of custom applications. (Do not include lime.) 6. Gasoline and other petroleum fuel and oil		\$	00	trucks, tractors, combines, plows, disks, harrows, dryers,								
purchased for the farm business — a. Gasoline and gasohol		977 \$	00	pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc.								
b. Diesel fuel		978	00									
		979	- 1	this place, December 31, 1987. (Report on this place on the place of the place on t								
•	_	980	00	only if used in 1986 or 1987.) None 944 945								
d. LP gas, fuel oil, kerosene, motor oil, grease, etc 7. Electricity for the farm business – (Do not	ш	981	00	2. Motortrucks — Include pickups								
include household expenses.)		\$ 1	00	and motor tillers — 946 947								
8. Hired farm and ranch labor — also include employer's cost for social security, workman's compensation, insurance		982		a. Less than 40 horsepower (PTO)								
premiums, pension plans, etc. (See INFORMATION SHEET)		ş	00	4. Grain and bean combines, all types								
9. Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc.,		983	ı	5. Cotton pickers and strippers								
performed on a contract basis by a contractor, crew leader, a cooperative, etc.		\$ 1	00	6. Mower conditioners								
10. Repair and maintenance expenses for the upkeep of buildings, motor vehicles, and farm		984		and round balers								
equipment		\$	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		l l		Please give your best ESTIMATE of the CURRENT MARKET VALUE of land and buildings for all acres reported in								
use of equipment and for customwork such as grinding and mixing feed, plowing, combining, com picking, drying, silo filling, spraying, dusting, fertillizing, etc. (Do		985		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 chemicals.)	-1	1	00	1. All land owned								
12. Interest paid on debts — (See INFORMATION SHEET)		986		997								
a_Secured by real estate		987	00	2. All land rented or leased FROM OTHERS								
b. Not secured by real estate		s .	~~_	3. All land rented or leased TO OTHERS								
13. Cash rent paid for land and buildings in 1987—		988		SECTION 28% INCOME FROM FARM - RELATED SOURCES IN 1987 Report amount received before taxes and expenses.								
(Do not include grazing fees.)	۱ ــ	989	00	Farm-related income								
14. Property taxes paid — Include farm real estate, 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,								
	_	·	一	harvesting, preparation of products for market, etc. (If customwork is a separate business, refer to INFORMATION SHEET, section 28) 992 900								
15. All other production expenses — Include insurance, water, animal health costs, grazing fees, marketing charges,		990		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.)	\neg	s I	00	out farmland or payments received from lease or sale of 983								
SECTION 24 Was any COMMERCIAL FERTILIZER, including	— I			allotments — Include payments for livestock pastured on a per-head basis, per-month basis, per-pound basis, etc								
S24 LIME used on this place during 1987?				3. Sales of forest products and Christmas trees – Include maple products, navel stores, firewood, etc								
1 L YES — Complete this section 2 N		Go to section 25	zed .	4. Recreational services, patronage dividends of cooperatives,								
1. Acres of cropland fertilized in 1987 — (Do not include croplan	od –	932		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	-1	Specify □ \$ 00								
reported in section 10, items 2b and 4	[J [_	SECTION 29 PERSON COMPLETING THIS REPORT — Please print Name Page Date								
3. LIME — tons of lime used and acres on	of lime	Acres limed	d									
which applied — (Do not include land plaster or gypsum or lime for sanitation.)				Telephone number Area Code Number								
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INFORMATION SHEET

1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

1. Who Should Report

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

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

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

3. If You No Longer Farm

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

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

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

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

5. If You Have More Than One Agricultural Operation

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

6. If You Have a Partnership Operation

Complete only ONE report for the entire partnership's agricultural operation and include all partners' shares on the one report. If members of the partnership also operate separate farms or ranches in addition to the partnership farming operation, separate report forms should be completed for each individual operation.

If two or more report forms were received for the same operation, mark each additional form as a "Duplicate." Return the duplicate report(s) in the same envelope with the completed partnership report, where possible, or write a note on the duplicate report, such as, "(Name of partner) has completed a report for the partnership (provide name and CFN of partnership.)"

7. Landlord's or Contractor's Share

If you rented or leased land from others or had a contract for the production of agricultural products, include both your share and the landlord's or contractor's share of the production, seles, 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
- 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:

- 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.

S2 Were any o	Were any of the following CROPS harvested from "THIS PLACE" in 1987?												
None	Acres harvested	Quantity harvested	Acres irrigated										
1. Cotton	091	092 Bales	093										
2. Soybeans for beans	088 40	⁰⁸⁹ /,550 Bu.	090 40										
3. Wheat for grain	073 40	/, 230 Bu.	075										
4. Oats for grain	076	077 ⁷ 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.

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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 SPECIAL TIES

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on "this place" (section 1, item 4) on December 31, 1987. Include all owned by you and any kept by you for others. Include animals on unfenced lands, National Forest land, district land, cooperative grazing association land, or rangeland administered by the Bureau of Land Management on a per-head or lease basis. Animals in transit on December 31, 1987, or animals on a short-term pasture (such as wheat pasture or crop residue) on a per-head or lease basis should be reported by the person who had control of the animals.

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

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

Contract and Custom Feeding Operations — Livestock or poultry kept by you on "this place" on a contract or custom basis should be included on this report REGARDLESS OF OWNERSHIP. Report as "INVENTORY" numbers of animals or poultry on the place on December 31, 1987. Report as "SOLD" animals and poultry kept on a contract or custom basis and removed or sold from the place in 1987 if the sale price or market value is not known, give your best estimate of the market value of the animals or poultry when they left the place.

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

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

► 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

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

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

Incorporated Under State Law — A corporation is defined as a legal entity or artificial person created under the laws of a State to carry on a business. This definition does not include cooperatives. Information on type of corporation should be reported in section 21.

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

Page 3

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 OPERATOR

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

For Family or Individual Operation - Complete this section for

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

For Corporations and Other Operations (Cooperatives, Estates, etc.) — Complete section 22 for the person in charge, such as a hired manager, business manager, or other person primarily responsible for the on-site, day-to-day operation of the farm or ranch business.

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

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

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.

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

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

 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

- 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) (12-17-88)

DUE BY FEBRUARY 1, 1988	·					OA	/B No. 0807-0534; Approval	Expires Septemit	ber 30, 1969
FORM 87-A0400 (3-13-87)	U.S. DEPARTME	INT OF COMMERCE REAU OF THE CENSUS	NOTICE - R THE CENSUS only for statis	esponse to this inquiry is req BUREAU IS CONFIDENTIAL tical purposes. Your report C	uired by law i L. It may be a CANNOT be u	title 13, U.S leen only by	. Code). By the same is sworn Census employ	w YOUR RE	PORT TO y be used egulation.
	UNITED ST	JS	The law also	provides that copies retained dence pertaining to this re	In your files a	it enummi en	rom legal process.		
AG CENSUS USA	OF AGRICU	LTURE	Γ	-			87-A04 <u>00</u>	'	
form and RETURN TO \$	BUREAU OF THE CENS 1201 East Tenth Street Jeffersonville, IN 47								
Note — if your records are not used. If you cannot file by Februar to the above address. Include you as shown in your address label in a	ry 1, a time extension req ur 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	all correspondence to us.		- W						
Your completed report. A	037	038		n ing pangangan pangangan dan dan pangangan pangan pangan dan pangan pangan pangan pangan pangan pangan pangan		and the control of th	nagan nagan nagan nanggalan ganggan mpiningan nagan gan		
SECTION 1			Pleas	SECTION 4					
At any time during 1987, did .Hay or tobacco?Corn, wheat, or other grainsOther crops?	Fruit, nut, or ciVegetables, m	itrus trees; grapev elons, or berries?	rines?	PART A — CROI (Do not include crops	grown on land	STED fro		Gross v	value of
	• Greenhouse or Yes			1. Hay crops — a. Alfalfa and alfalfa	None 10	harvested	Quantity harvested	Dollars	s sold Cents
 At any time during 1987, did Cattle, hogs, sheep, or goat 	ts? • Horses or poni			mixtures			Ton dry	\$ 8. 782	00
Chickens or other poultry?Bees?	Fish in captivit Other animal s			b. Small grain hay		2	113 Ton	s, 782	00
	Yes 🗆 No			d. Other hay —	10	8	110 Ton	782	1
If you answered YES to EIT If you answered NO to BOT	HER of these question 'H of these questions,	es, go to SECTION	N 2. 10.	Specify kind	— 🗆 😹	7	dry 088	773	00
SECTION 2 ACREAGE IN 1	1987 Report land own	ned, rented, or us	ed by you,	2.Corn for grain or se	08	8	089 Bu.	776	00
your spouse, or l	by the partnership, cor porting, include ALL L	poration, or orga	nization for	3. Soybeans for beans	s. -	3	074 Bu.	774	_ i 00_
LOCATION OR L	JSE — cropland, pastur and, house lots, etc.	reland, rangeland	1,	4. Wheat for grain			095	781	1 00
		None Nu	mber of acres	5. Tobacco — all types 6. Potatoes, Irish —/Do	ina	7 /10	098 Lbs	. \$ 785	00
All land owned All land rented or leased FRON	M OTHERS, including lar	🗆 📙		not include those grown for home use.)	í o L	/10	Cwr	t. \$	_ ! 00
worked by you on shares, use services, payment of taxes, et and railroad land. (DO NOT inc	tc. Include leased Federi clude land used on a per-	al, State, -head	•	7. All vegetables for se	ale No	ne Total ac	783	-	1
basis under a grazing permit.) 3. All land rented or leased TO OTI shares by others and land suble.	HERS, including land worl	ked on	š	for home use.)	<u> </u>	1	/10 \$ 00 /10 /10		
4. Acres in "THIS PLACE"	- ADD acres owned (item 1)	048		No	ne Total ac	res Quantity harveste	d Dollars	Cents
and acres rented (item 2), the TO OTHERS (item 3), and en				 All fruit and nut orch vinevards, and berr 	hards,	121	/10	784	00
If the entry is zero please refer	r to the Information She	et. section 2.	1	Specify {			/10 3 Lbs		
5. Of the land you rented or lease acres did you own?	ed to others, how many		Acres	9. Other crops — For ac	iditional crops,	enter the cro	/10 Lbs. p name and code from t	he list below.	<u></u>
6. In what county was the larges agricultural products raised or		County name	State	Report quantity harvest	Code	Acres harvested	Quantity harvested		-
SECTION 3: LAND USE and	IRRIGATION					·	1	2 S	Cents
PARTA — How were the		61 At	mber of acres			,	1	\$	00
 Cropland harvested — Includ were harvested or hay was cut, groves, vineyards, and nursery 	ang ali lang in orchards, c	ritrus 787		If more space is needed, use a Crop name Barley for grain (bushels) .		Code	Crop name Oats for grain (bushels)		Code
Cropland on which all crops report here land in orchards and vi	failed — (Exception: Do n ineyerds on which the crop	OT		Corn for silege or green cho Cotton (bales)	p (tons, green))070 : 091 (Sorghum for grain-milo Other crops (pounds) —	(bushels)	082 752
Cropland idle, cropland used or cropland in cultivated surr	for cover crops.	🔲 793			Y and GRE		CROPS GROWN FO	R SALE	
 Cropland used only for past and other pastureland and 	ture, woodland pastu rangeland			From the list below, en			code for each crop gr Acres in the open		007
All other woodland, wastel reported in items 1 through	land, houselots, etc.	797	,	Crop name	Code under	r glass or	in 1987 Vhole acres Tenths	Sales in 15 Dollars	987 Cents
PART B - IRRIGATION		None	mber of acres irrigated				/10 \$		00
How many acres of harveste land from which hay was cut an fruit and nut crops.	d land were irrigated? ad land in bearing and non-	Include 680		If more space is needed, use a Crop name Bedding plants (include veg	Fall Artist	Code ; (Crop name Potted flowering plants		Code
 How many acres of pasturely lands not included in item 1 a 	above were irrigated?	y other		Cut flowers and cut florist g Nursery crops — ornaments and nut trees, and vines	reens els, fruit	485	Foliage plants Greenhouse vegetables Other — Specify		707 503 506
ENALTY FOR FAILURE TO REPO	DAT					CONTINUE	ON REVERSE SIDE		

#S	EGITONIS LIVESTOCK and POULTRY					A DADTE MODES OF	TUED I IVERTOR	V ANIMAL ON	ECIAL TIS	io and Flou
		1	_	INVENTORY		PART E - HORSES, O'	INVENTORY	Total quantity		value of sales
•	PART A — CATTLE and CALVES	None		Number on this ice Dec. 31, 19		None	place Dec. 31, 1987	sold in 1987	Do	ilars !Cents
			803			1. Horses and ponies of all ages	830	831 Numb	832 er \$	00
1			804		Total	<u>#</u>	839	840 Numb	<u>er</u> 842	į
l	a. BEEF COWS — Include beef helfers that had calved.				Beef cows	2. Colonies of bees \Box		841 Pound honey	 } ₹	. 00
	b. MILK COWS kept for production of milk or		805				843	844 Numb	840 er	į
1	cream for sale or home use — Include dry milk cows and milk helfers that had calved				Milk			848 Gallon milk	• }*	00
	F				7		847	848 Numbe	850 er	!
	None		Dollars	e of sales	1	4. Angora goats		849 Pound mohel		00
2.	Value of DAIRY PRODUCTS sold in 1987 – Include milk, cream, butter, etc	14		. 00]	5 - Other livestock, fish, animal products.				1
	CATTLE and CALVES SOLD				1	(Enter name/code from below.)	'	1	2	! !
	FROM THIS PLACE IN 1987	Numbe	r sold	Gross value o	of sales	NameCode	L	Quent		00
	this place to a feedlot for further None feeding.	in 19		Dollars 809	Cents	MOISS, DUITOS, GOTIKSYS 833	Rabbits and their p	elts 854 ¹ Oth	me/code er livestoc	k, fish,
3.	Calves less than 500 pounds	-		*	00	Mink and their pelts 838 SECTION 6 GOVERNM	ENT CCC LOAN	The second second	id their pro	ducts 857
_	. Cattle - Include calves 500 pounds or more	10		811	00	Amount received in 198			. Include	regular
7	a. Of ALL cattle sold, how many were	12		813	1	and reserve loans, even if re	edeerned or torier	MODE 1	Dolla	rs Cents
	FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more				I I					; 00
Ļ	and SOLD for SLAUGHTER?			\$	00		eceived for parti S in 1987 <i>(DO N</i>			
•	PART B HOGS and PIGS		. 1	INVENTORY Number on this				None	Dolla 84	rs Cents
	ī	None	915 815	ce Dec. 31, 19	87	1. Amount received in casi				00
1.	. HOGS and PIGS of all ages			1	Total	2. Value of certificates reco			85 1	1 00
	a. HOGS and PIGS used or to be used for breeding		818		Breeding	SECULIE Acres in thi	s place SET ASI	DE, DIVERTED	, or IDLI	D under
			-			PEDEKAL	creage reductio	n programs in		umber of acres
	None	lumber in 19		Gross value o	f sales Cents	- I - now many acies wates	et aside (or divert	ed) under	1	32
2.	. HOGS and PIGS SOLD from this	0	-	821	1	2. How many scree were u				33
3.	place in 1987	12		\$ 523	00	NESERVE PROGRAM (T	Management of the second page and the passes			
<u> </u>	sold as FEEDER PIGS for further feeding?			8	00		ERISTICS and O tner or person in		JF OPER	AIUR
•	Nur	Mper o	n this	NUMBER S		1 - RESIDENCE — Does the place?	e operator live or		Vae	₂□ No
	None place	Dec. 3	11, 198	825		2. PRINCIPAL OCCUPATI			103	20.10
1.	SHEEP and LAMBS of all ages		-		00000000	occupation did the oper majority (50 percent or		928		
	a. EWES 1 year old or older	_				worktime in 1987? For all members of the partners	partnerships conside	اسا: مو	Farming or ranchi	2 LJ Other ing
2.	SHEEP and LAMBS SHORN None 827		828	2		3. OFF-FARM WORK - H	· -	13 45 ⁹²⁹ / _		
	in 1987	Numbe	-	Pounds wool		operator work at least 4	1 hours per day o	off this ' 🖂	None 1-49 d	avs
_	What was the proce value of calco of None		oss valu Dollars	e of sales Cents		business, or on someone el include exchange farmwork	se's farm for pay. (I	,,,,	50-99	•
3.	SHEEP, LAMBS, and WOOL from this		<i></i>				•		100-14	
•	place in 1987?	I IN	VENTO	00		-{			150-19 200 day	s or more
•	· ····································	1	lumber this plac	on Numi		4. In what YEAR did the o	perator begin to	200		
1.	HENS and PULLETS Nor	ne De 892	c. 31, 1			any part of this place?				Year
	a. HENS and PULLETS of laying age] 894		895		5. AGE of operator				Years old
	b. PULLETS 3 months old or older not yet of laying age for layer replacement] [924 / 1 🛄	White	
	c. PULLETS under 3 months old for layer replacement	896							Negro or	
_		898		899		8. RACE of operator			America Asian or	
	BROILERS, fryers, other meat-type chickens	900		901		-1			islander	
	TURKEYS for slaughter (Do not include breeders.) OTHER POULTRY (Enter name/code from below.)	¹ ├		1		4		[*□	Other	Specify)
7.	STIER I GOZINI (enter nama/coda nom valow.)	1						926		
	Poultry name Code	. Ц				7. SEX of operator		027	Male	2 Female
	Name/code Turkey hens kept Geese 9		Qua	ne/code	912	8. SPANISH ORIGIN — Is origin or descent (Mexic	can, Puerto Ricar	panish		
	for breeding 902 Pigeons or squab 90 Pheasants 9	10	l Sp	other poultry —	914	Cuban, or other Spanis		MANAGEMENT OF STREET,	W 13 = 10 1 1 1	2 ☐ No
Б.	Value of POULTRY and POULTRY None		es valu Dollars	e of sales Cents		Name	VINIT LE LING IN	999 Dat		
	PRODUCTS (eggs, etc.) sold from this place					Telephone number	Number	<u> </u>		
	in 1987?			00		Leightione timmper	<u> </u>			

INFORMATION SHEET 1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

1. Who Should Report

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

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

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

3. If You No Longer Farm

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

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

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

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

5. If You Have More Than One Agricultural Operation

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

6. If You Have a Partnership Operation

Complete only ONE report for the entire partnership's agricultural operation and include all partners' shares on the one report. If members of the partnership also operate separate farms or ranches in addition to the partnership farming operation, separate report forms should be completed for each individual operation.

If two or more report forms were received for the same operation, mark each additional form as a "Duplicate." Return the duplicate report(s) in the same envelope with the completed partnership report, where possible, or write a note on the duplicate report, such as, "(Name of partner) has completed a report for the partnership (provide name and CFN of partnership.)"

7. Landlord's or Contractor's Share

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

If you do not know the landlord's or contractor's share, include your BEST ESTIMATE. If you do not have records available for all data items, use your best estimate.

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
- d. Federal, State, Indian reservation, or railroad land rented or leased by the acre

DO NOT INCLUDE in item 2:

Land used on a per-head or animal unit license or permit basis, such as section 3 of the Taylor Grazing Act, National Forest, or Indian reservation permit land.

Item 3 — All Land Rented or Leased TO OTHERS — Include all land rented out for any purpose if it was part of the acreage reported in items 1 and 2. A report form will be obtained from each of your tenants to cover the operations on that land.

INCLUDE in item 3:

- 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. Mail 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 west 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, 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 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 4a.

DO NOT INCLUDE WITH FATTENED CATTLE SOLD:

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

Value of 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 fivestock 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.

Pert 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 inventor.

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 operator.

For Partnership Operations — Answer all items, except item 2, for the "Senior Partner." The "Senior Partner" is the individual who is mainly responsible for the agricultural operations on "this place." not necessarily the person senior in age. If each partner shares equally in the day-to-day management decisions, consider the oldest as the "Senior Partner." For item 2 (Principal Occupation) consider all members of the partnership together. Please include as "farming 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.

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