# APPENDIX A. General Explanation

	rage
DATA COLLECTION	<b>A</b> -1
DATA PROCESSING	A-2
MAJOR DATA CHANGES	A-2
FOLLOW-ON SURVEYS, SPECIAL CENSUSES, AND	
RELATED PUBLICATIONS	A-2
DEFINITIONS AND EXPLANATIONS	A-3
FARMS CLASSIFIED BY SPECIFIED CHARACTERISTICS	A-9

### **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.

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

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

Operator-The term "operator" designates a person who operates a farm, either doing the work or making day-to-day decisions about such things as planting, harvesting, feeding, and marketing. The operator may be the owner, a member of the owner's household, a hired manager, a tenant, a renter, or a sharecropper. If a person rents land to others or has land worked on shares by others, he/she is considered the operator only of the land which is retained for his/her own operation. For partnerships, only one partner is counted as the operator. If it is not clear which partner is in charge, then the senior or oldest active partner is considered the operator. For census purposes, the number of operators is the same as the number of farms. In some cases, the operator was not the individual named on the address label of the report form, but another family member, a partner, or a hired manager who was actually in charge of the farm operation.

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

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

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

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

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

Customwork, machine hire, and rental of machinery and equipment—These expenses include costs incurred for having customwork done on the place and for renting machines to perform agricultural operations. The cost of cotton ginning is excluded. The cost of labor involved in the customwork service is included in the customwork expense. The cost of custom application of fertilizer and chemicals was included in the 1982 and 1978 customwork data, but is included in expenditures for these items in 1987. The cost of hired labor for operating rented or hired machinery is included as a hired farm and ranch labor expense.

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

Market value of agricultural products sold—This category represents the gross market value before taxes and production expenses of all agricultural products sold or removed from the place in 1987 regardless of who received the payment. It includes sales by the operator as well as the value of any shares received by partners, landlords, contractors, or others associated with the operation. In addition, it includes receipts from placing commodities in the Commodity Credit Corporation (CCC) loan program in 1987. It does not include payments received for participation in federal farm programs nor does it include income from farm-related sources such as customwork and other agricultural services, or income from nonfarm sources.

The value of crops sold in 1987 does not necessarily represent the sales from crops harvested in 1987. Data may include sales from crops produced in earlier years and exclude some crops produced in 1987, but held in storage and not sold. For commodities, such as sugar beets and wool, sold through a co-op which made payments in several installments, respondents were requested to report the total value received in 1987.

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

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

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

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

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

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

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

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

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

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

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

**Bees and honey**—Bee and honey production was enumerated and tabulated in the county in which the home farm was located even though hives are often moved from farm to farm over a wide geographic area.

Citrus enumeration-In the 1987 census, reports for selected citrus caretakers in Arizona, Florida, and Texas were obtained by direct enumeration. A citrus caretaker is an organization or person caring for or managing citrus groves for others. This special enumeration has been used in recent censuses because of the difficulty in identifying and enumerating absentee grove owners who often do not know the information that is needed to adequately complete the census report. Each citrus caretaker was enumerated as a farm operator and requested to complete one report form for all groves cared for and to furnish a list of grove owners' names, addresses, and acres of citrus. The names on the lists were matched to completed grove owners' report forms to eliminate duplication. The caretaker also was requested to inform the grove owner that he had already reported for the citrus under his care and that the grove owner was not to report the citrus again. In the 1987 census, 7 caretakers in Arizona reported 175 grove owners having 12,000 acres of citrus; the 65 caretakers in Florida reported 3,000 grove owners having 170,000 acres of citrus; and 20 caretakers in Texas reported 800 grove owners having 14,500 acres of citrus.

Crop year or season covered—Acres and quantity harvested are for the calendar year 1987 except for citrus fruits, avocados, olives; vegetables in Florida; sugarcane in Florida and Texas; and pineapples and coffee in Hawaii.

Citrus fruits—The data for Florida relate to the quantity harvested in the September 1986 through July 1987 harvest season, except limes that were harvested in the April 1987 through March 1988 harvest season. The data for Texas relate to the quantity harvested in the September 1986 through May 1987 harvest season. The data for States, other than Florida and Texas, relate to the quantity harvested in the 1986-87 harvest season.

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

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

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

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

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

Coffee—The data for Hawaii relate to the 1986-87 crop.

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

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

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

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

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

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

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

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

Grapes could be reported in dry weight or fresh weight; plums and prunes in fresh weight, or prunes in dry weight; and in Hawaii, coffee in pounds parchment or pounds cherry, and macadamia nuts in pounds husked, unshelled or pounds shelled. For other fruit and nut crops and citrus, the operator was given a choice of units of measure of pounds, tons, or boxes. The quantity harvested for these crops is published in pounds.

Write-in crops—To reduce the length of the report form, only the major crops for the region were prelisted. For other crops, the respondent was requested to look at a list of crops in each section and write in the crop name and its code. For crops that had no individual code listed on the report form, the respondent was to write in the crop name and code the crop into the appropriate "all other" category for that section. Write-in crops coded as "all other" were reviewed and assigned a specific code when possible. Crops not assigned a specific code were left in the appropriate "all other" category.

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

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

### "See text" References

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

Data are based on a sample of farms—For 1987, 1982, and 1978, selected data were collected from only a sample of farms. These data are subject to sampling error. For 1987, the six-page sample form was mailed to all large and specialized farms (based on expected sales, acres, or standard industrial classification), all farms in Alaska and Hawaii, and approximately 17 percent of all other farms. Sample sections 23 through 28 of the 1987 census forms included inquiries on production expenses, commercial fertilizer and lime, chemicals, machinery and equipment, value of land and buildings, and income from farm-related sources. Estimates of the reliability of county totals for selected items are shown in table F of appendix C.

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

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

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

**Total sales—**This item represents the gross market value of all agricultural products sold before taxes and expenses in the census year including livestock, poultry, and their products; and crops, including nursery crops and hay. Respondents were asked to include landlords' and contractors' shares. The value of commodities placed in CCC loans are included as sold. In 1987, all farms including abnormal farms were tabulated by size based on reported sales. In 1982 and 1978, abnormal farms were included in the total sales figure, but excluded from the detailed size breakdowns. Abnormal farms include institutional farms, experimental and research farms, and Indian reservations.

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

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

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

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

Value of livestock and poultry on farms—Data for the value of livestock and poultry on farms were obtained by multiplying the inventory of each major age and sex group by State average prices. The State average prices for cattle, hogs, sheep, Angora goats, hens and pullets of laying age, and turkeys were obtained primarily from data published by the National Agricultural Statistics Service, USDA. Prices applied to other livestock and poultry were census-derived averages based primarily on reported value of sales in the census.

Poultry hatched—This category includes all poultry hatched on the place during the year and placed or sold. Incubator egg capacity on December 31, 1987, is tabulated under the column heading "Inventory" and the number of poultry hatched and placed or sold is under the heading "Sales."

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

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

**Grapes**—Farm operators were given the option of reporting the quantity of grapes harvested in dry weight or fresh weight. For publication purposes, all quantities of grapes harvested have been converted to pounds of fresh weight. The conversion used was 4 pounds fresh weight to 1 pound dry weight.

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

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

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

Other fruits and nuts—Data shown for other fruits and nuts relate to any fruits and nuts not having a specific code on the 1987 report form.

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

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

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

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

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

Value of crop production—This item represents the estimated value of all crops harvested during the 1987 crop year. Data for the value of crops harvested were obtained by multiplying the average estimated value per unit by the reported acres or quantity harvested. Generally, harvested units of production (pounds, bushels, bales, etc.) were multiplied by State estimates of prices per unit. If only acres harvested were reported, State estimates for value of production per acre were used. The State average production price and production value per acre used in these calculations were obtained usually from publications of the National Agricultural Statistics Service, USDA. When

USDA estimates were not available, Bureau of the Census statisticians made estimates using available sources such as data from adjacent States, respondent report forms, county extension agents, and other persons knowledgeable about specific crops.

# FARMS CLASSIFIED BY SPECIFIED CHARACTERISTICS

State tables 48 through 53 present detailed 1987 data for all farms classified by specified characteristics—tenure of operator, type of organization, age and principal occupation of operator, size of farm (acres), value of agricultural products sold, and standard industrial classification. Other tables include data classified by value of sales groups or other characteristics of the farm or the operator.

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

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

Abnormal farms—This category includes institutional farms, experimental and research farms, and Indian reservations. Institutional farms include those operated by hospitals, penitentiaries, churches, schools, grazing associations, and government agencies. In 1987 and 1982, nongovernmental units such as church farms and Future Farmers of America camps were classified as abnormal farms only when 50 percent or more of their products produced and intended for human consumption were utilized by the organization.

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

Full owners, who operate only land they own.

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

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

Farms by type of organization—All farms were classified by type of organization in the 1987 census. The classifications used were:

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

Partnership, including family partnership.

Corporation, including family corporation.

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

Corporations were subclassified by two additional characteristics into:

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

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

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

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

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

Farms by standard industrial classification—In 1987, all agricultural production establishments (farms, ranches, nurseries, greenhouses, etc.) were classified by type of activity using the standard industrial classification (SIC) system. These classifications, found in the 1987 SIC Manual<sup>1</sup>, are used to promote uniformity and comparability in the presentation of statistical data collected by various agencies.

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

An establishment primarily engaged in crop production (major group 01) or production of livestock and animal specialties (major group 02) is classified in the four-digit industry and three-digit industry group which accounts for 50 percent or more of the total value of sales of its agricultural products. If the total value of sales of agricultural products of an establishment is less than 50 percent from a single four-digit industry, but 50 percent or more from the products of two or more four-digit industries within the same three-digit industry group, the establishment is classified in the miscellaneous industry of that industry group. Otherwise, it is classified as a general crop farm in industry 0191 or a general livestock farm in industry 0291. Establishments that derive 50 percent or more of the value of sales from horticultural specialties of industry group 018 are classified in industry 0181 or 0182 according to their primary activity.

Characteristics of all farms by selected SIC groupings are shown in State tables 18 and 53. The SIC groupings shown in State table 53, together with the associated products (value of sales representing 50 percent or more of the value of agricultural products sold during the year) on which the classification is based, are as follows:

Cash grains (011)—Wheat, rice, corn, soybeans, barley, buckwheat, cowpeas, dry field and seed beans and peas, flaxseed, lentils, milo, mustard seed, oats, popcorn, rye, safflower, sorghum, sunflowers, and other small grains.

Cotton (0131)—Cotton and cottonseed.

Tobacco (0132)—Tobacco.

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

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

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

Horticultural specialties (018)—Bedding plants, bulbs, florists' greens, flower and vegetable seeds, flowers, foliage, fruit stocks, nursery stock, ornamental plants, shrubberies, sod, mushrooms, and vegetables grown under cover.

**General farms, primarily crops (019)**—Crops, including horticultural specialties, but less than 50 percent of sales from any single three-digit industry group.

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

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

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

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

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

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

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

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

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

of agricultural production for 10 years.

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

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

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

# Land in Conservation Reserve Program: 1987

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

Outproation and	Agricultural places	excluded by farm de in the CRP	efinition with acres	Farms with acres in the CRP			
Geographic area	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)	
Colorado	238	109 804	98 303	1 666	4 810 575	811 790	
Adams	85395410779743198644633	1 888 4 265 24 036 3 109 439 6 444 555 4 414 3 337 728 821 17 651 3 764 3 662 640 2 132 281 1 221	1 616 3 965 22 481 2 766 4 39 4 857 505 2 886 3 122 728 615 17 281 3 417 2 576 637 2 083 281 1 105	36 36 232 39 4 88 31 42 63 35 88 101 25 38 99	101 602 92 199 566 321 266 513 4 5970 80 521 40 193 224 500 92 929 319 736 270 904 32 800 254 795 364 312 123 300 1 315	15 196 15 316 161 187 22 879 549 49 245 12 316 13 852 27 313 9 412 65 843 35 354 5 466 18 205 54 179 11 976 883	
Mosfat Monfat Mongan Prowers Pueblo Routt Washington Weld Yuma	7 10 6 15 6 7 4 15	2 998 4 263 2 138 5 642 3 083 2 011 980 5 355 2 512	2 824 2 949 2 005 5 423 3 033 1 820 967 4 437 2 377	33 34 39 103 33 20 98 98	120 624 37 302 59 573 423 720 89 073 47 343 240 702 233 394 201 358 275 037	24 464 10 321 6 215 80 525 29 273 14 377 32 271 48 610 14 233	

# APPENDIX C. Statistical Methodology

	rage
MAIL LIST MODEL	C-1
CENSUS SAMPLE DESIGN	C-1
CENSUS ESTIMATION	C-1
CENSUS SAMPLING ERROR	C-3
CENSUS NONSAMPLING ERROR	C-5
EDITING DATA AND IMPUTATION FOR ITEM	
NONRESPONSE	C-6

#### TABLES:

- A. PERCENT OF STATE TOTALS CONTRIBUTED BY WHOLE FARM NONRESPONSE ESTIMATION: 1987
- B. RELIABILITY ESTIMATES FOR NUMBER OF FARMS IN A COUNTY REPORTING A COMPLETE COUNT ITEM: 1987
- C. RELIABILITY ESTIMATES FOR NUMBER OF FARMS IN A COUNTY REPORTING A SAMPLE ITEM: 1987
- D. RELIABILITY ESTIMATES OF STATE TOTALS: 1987
- E. RELIABILITY ESTIMATES OF PERCENT CHANGE IN STATE TOTALS: 1982 TO 1987
- F. RELIABILITY ESTIMATES OF COUNTY TOTALS: 1987
- G. STATE COVERAGE EVALUATION ESTIMATES OF FARMS NOT ON THE MAIL LIST: 1987

# 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	8.5
Land in farmsacres	2.4
Value of land and buildings\$1,000	4.5
Market value of agricultural products sold\$1,000	1.2
Harvested croplandacres	3.9
Corn for grain or seedacres	2.7
Wheat for grainacres	3.5
Livestock and poultry inventory:	
Cattle and calvesnumber	2.1
Hogs and pigsnumber	3.5
Hens and pullets of laying agenumber	.3

# **Sample Estimation**

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

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

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

TVP	SIC	Acres
\$1 to \$999 \$1,000 to \$ 2,499	01 All crops 02 All live-	0 to 69 70 or more
\$2,500 to \$ 4,999 \$5,000 to \$ 9,999 \$10,000 to \$24,999	stock	
\$25,000 to \$49,999 \$50,000 to \$99,999 \$100,000 or more		

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

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

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

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

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

### **CENSUS SAMPLING ERROR**

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

The sample for the 1987 Census of Agriculture is one of a large number of possible samples of the same size that could have been selected using the same sample design. Estimates derived from the different samples would differ from each other. The difference between a sample estimate and the average of all possible sample estimates is called the sampling deviation. The standard error or sampling error of a survey estimate is a measure of the variation among the estimates from all possible samples, and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The percent relative standard error of estimate is defined as the standard error of the estimate divided by the value being estimated multiplied by 100. If all possible samples were selected, each of the samples were surveyed under essentially the same conditions, and an estimate and its standard error were calculated from each sample, then:

- Approximately 67 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average value of all possible samples.
- 2. Approximately 90 percent of the intervals from 1.65 standard errors below the estimate to 1.65 standard errors above the estimate would include the average value of all possible samples.

The computations involved to define the above confidence statements are illusted in the following example. Assume that the estimate conumber of farms for the State is 94,382 and the relative standard error of the estimate (percent) is .1 percent (0.001). Multiplying 94,382 by 0.001 yields 94, the standard error. Therefore, a 67-percent confidence interval is 94,288 to 94,476 (i.e., 94,382 plus or minus 94). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 2 out of 3 (67 percent) of these intervals would contain the figure obtained from a complete enumeration. Similarly, a 90 percent confidence interval is 94,227 to 94,538 (i.e., 94,382 plus or minus 1.65 x 94).

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

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

Farms	Relative standard error of estimate (percent)
Number of farms reporting:	
25	6.2
50	3.6
75	2.3
100	1.0
150	.8
200	.7
300	.6
500	.5
750	.4
1,000	.3
1,500	.3
2,000	.2

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

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

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

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

Farms	Relative standard error of estimate (percent)
Number of farms reporting:	
25	20.4
50	15.3
75	13.2
100	12.0
150	10.7
200	9.9
300	9.1
500	8.4
750	8.1
1,000	7.9
1,500	7.7
2,000	7.6

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

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

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

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

## **CENSUS NONSAMPLING ERROR**

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

# **Census Coverage**

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

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

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

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

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

## **Mail List Coverage**

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

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

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

### Respondent and Enumerator Error

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

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

# **Item Nonresponse**

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

# **Processing Error**

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

### Classification Error

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

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

# EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

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

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

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

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

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

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

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

Tables D through G follow.

Table D. Reliability Estimates of State Totals: 1987

		All fam	ns	Farms with sales of \$10,000 or more		
ltem		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standar error of estimat (percent	
Farms		27 284 34 048 433	.1	15 087 30 626 154		
Land in farms Average size of farm		1 248	.1	2 030		
Value of land and buildings1	\$1,000	12 519 420	1.3	10 284 270	1,	
Average per farmAverage per acre		458 906 369	1.1	681 845 337	1.	
Estimated market value of all machinery and equipment1	\$1,000	1 347 073	1.1	1 166 444	1.	
Average per farm	dollars	49 534	1.1	77 345	1.	
Farms by size: 1 to 9 acres	farms	2 725	.6	621	1.	
10 to 49 acres	acres	9 456 4 352	.7 .4	1 524 665	1. 1.	
50 to 179 acres	acres	111 868 5 111	.5	17 572   1 902	1.	
50 to 179 doi 95	acres	555 515	.5	221 343		
180 to 499 acres	farms	4 862	.5	3 057		
500 to 999 acres		1 556 685 3 355	.5	998 413 2 587	(2	
1,000 to 1,999 acres	acres	2 396 977 2 918	.5 .5	1 862 603 2 536	:	
2,000 acres or more	acres	4 118 748 3 961	.5 (Z) (Z)	3 601 582   3 719	ιż	
2,000 40103 01 111010 2222222	acres	25 299 184	(2)	23 923 117	(2	
Total cropland		22 334	.1	13 346		
Harvested cropland		10 988 853 19 446	:1	9 944 200 12 630	:	
	acres	5 522 216	.1	5 241 554	•	
Acres harvested:	farms	1 879	.7	306	1.	
10 to 49 acres	acres	8 905 4 506	.8	1 160 1 113	2.	
•	acres	112 560	.5	32 024	1.; 2.; 1.; .;	
50 to 99 acres	acres	2 693 188 200	.6 .7	1 538 109 653	j	
100 to 199 acres	farms	3 141	.6	2 607		
200 to 499 acres	acres farms	439 087 3 984	.6 .4	370 076 3 828	•	
500 to 999 acres	acres	1 265 878 2 037	.4	1 224 362 2 032		
	acres	1 407 003	.4	1 403 696		
1,000 acres or more	acres	1 206 2 100 583	-	1 206 2 100 583		
Cropland used only for pasture or grazing	farms	8 537	.3	4 245		
Other cropland	acres   farms	1 170 250 10 329	.5 .2 .2	826 030 i 7 777		
•	acres	4 296 387	Į.	3 876 616		
Irrigated land	acres	14 913 3 013 773	.2	9 139 2 786 261		
Acres irrigated: 1 to 9 acres	1	1 771	.7	301		
	acres	8 607 3 982	.8	1 114	1. 1. 1.	
10 to 49 acres	acres	98 488	.5 .5	28 162	1.	
50 to 99 acres	acres	2 180 151 813	.7 .7	1 346 96 075		
100 to 199 acres	farms	2 628	.6	2 264	ا،	
200 to 499 acres	acres	363 897 2 868	.6	316 830   2 766		
500 to 999 acres	acres }	892 001 1 103	.4 .5	862 453 1 086	;	
	acres	745 674	.5	734 634   376	:	
1,000 acres or more	acres	753 293	.3	746 993	,	
Market value of agricultural products sold	\$1,000	3 143 131	(Z)	3 106 873	(2	
Average per farm	dollars	115 201	.1	205 930		
Value of sales: Less than \$2,500	farms	6 607	.3	_		
\$2,500 to \$4,999	\$1,000	5 394 2 582	.5 .7 .7	-		
\$5,000 to \$9,999	\$1.000	9 285 3 008	.7	-		
\$5,000 to \$6,555	\$1,000	21 578	.6	-		
\$10,000 to \$24,999	farms	4 245	.4	4 245		
\$25,000 to \$49,999	\$1,000 farms	69 569 3 316	.5 .5 .5	69 569 3 316	•	
\$50,000 to \$99,999	\$1,000 farms	119 384 3 117	.5	119 384 3 117	•	
\$100,000 or more	\$1,000 farms	222 167 4 409	.5 (Z) (Z)	222 167 4 409	(2	
Sales by commodity or commodity group:	\$1,000	2 695 752	(2)	2 695 752	(2	
Crops, including nursery and greenhouse crops	farms \$1,000	14 828 781 934	.2	10 446 768 818		
Grains	\$1,000	451 526	.1 ]	445 887		
Corn for grainWheat	\$1,000	174 784 194 937	.2	173 934 190 994	1.	
SoybeansSorghum for grain	\$1,000	1 071 10 951	.8 1.0	1 061 10 770	1.	
BarleyOats	\$1,000	27 654 2 546	.5	27 433 2 385		
Other grains	\$1,000	39 583	.4	39 310		

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		
ltem .		Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent	
Sales by commodity or commodity group—Con.						
Crops, including nursery and greenhouse crops - Con. Cotton and cottonseed	\$1,000	_	_	_i		
Tobacco	\$1,000	90 129	.4	84 137	;	
Hay, silage, and field seedsVegetables, sweet corn, and melons	\$1,000	60 731	.2	60 500	:  1.:	
Fruits, nuts, and berries	\$1,000	12 513 87 392	1.2	11 619 87 100	1.2	
Other crops	\$1,000	79 642	.2	79 575		
Livestock, poultry, and their products	farms	17 764	.2	10 613		
Poultry and poultry products	\$1,000 \$1,000	2 361 197   89 126	(Z)	2 338 056 88 940	(Ż (Ż	
Dairy products	\$1,000	136 818	.1	136 753	, <u>.</u>	
Cattle and calves	\$1,000 \$1,000	1 964 765 46 495	(Z) .5	1 947 883 45 430	<b>\2</b> .i	
Sheep, lambs, and woolOther livestock and livestock products (see text)	\$1,000	108 883 15 110	1.2	107 256 11 794	1,	
arms by standard industrial classification:	Ψ1,000	10 110	'			
Cash grains (011)	farms	5 763	.3	4 600		
Field crops, except cash grains (013)	acres	7 867 822 3 294	.2	7 464 078 1 368		
	acres l	1 761 689 270	.4 1,5	1 344 807 218	 1.0	
Vegetables and melons (016)	acres	94 771	.4	93 863	1.5	
Fruits and tree nuts (017)		559	1.2	203	1.3	
Horticultural specialties (018)	acres	30 539 347	2.7	20 613   273	1.4	
·	20108	37 452		35 177		
General farms, primarily crop (019)	acres_	1 015 504 912	1.0	484 437 240	1.:	
Livestock, except dairy, poultry, and animal specialties (021)		12 544	.2	7 191		
	acres	22 268 627	.1	20 898 049 458	:	
Dairy farms (024)	acres	472 222 414	.8 .4	221 990		
Poultry and eggs (025)	acres	142 36 901	2.5 4.0	54   26 143	2.5 5.	
Animal specialties (027)		2 463	.6	205	2.9	
, , , ,	acres	506 069	.9	46 306	2.5 3.5	
General farms, primarily livestock and animal specialties (029)	acres	415 717 237	1.7	33   37 888	4.7 2.	
arms by type of organization:						
Individual or family (sole proprietorship)	acres	22 586 21 410 862	.1	11 607 19 067 323		
Partnership	farms	2 994	.5	2 157		
Corporation	acres	5 780 203 1 469	.2	5 403 508 1 184		
,	acres	5 010 562	.1	4 821 634	2.0	
Other-cooperative, estate or trust, institutional, etc.	acres	235   1 846 806	1.7	139 1 333 689	2.0	
enure of operator:		ł				
Full owners	acres_	14 843 9 107 974	.2   .2   .3	5 991 7 542 316		
Part owners	farms	8 483	.3 .1	6 475 19 437 447		
Tenants	acres farms	20 831 626 3 958	.5	2 621		
	acres	4 108 833	.3 †	3 646 391	.:	
Operators by principal occupation: Farming	ferme	16 504	.2	12 230	•	
	acres	28 167 992	.1	26 270 756		
Other	acres_	10 780 5 880 441	.2	2 857 4 355 398		
Operators by sex:	·					
Maie	acres	25 372 32 775 046	1	14 450 29 689 992		
Female	farms	1 912	.7	637	1.3	
verage age of operator	acres	1 273 387 51.8	.5	936 162 51.7	.(	
ropland under federal acreage reduction programs:			-	7		
Annual commodity acreage adjustment programs		6 336	.3	5 806		
Conservation reserve program	acres farms	969 449 1 666	.7	951 980 1 243 636 673		
No	acres	811 790	.6	030 073	••	
overnment payments: Amount received in cash	\$1,000	77 667	.2	75 342		
Value of certificates received	\$1,000	108 613	.2	101 719	.:	
let cash return from agricultural sales1:  Net cash return from agricultural sales for the farm unit (see text)	forme	27 281	.2	15 083		
- ·	\$1,000	422 200	1.5	463 756	1.3	
Average per farm		15 476	1.7	30 747	1,1	
Farms with net gains <sup>2</sup>	number   \$1,000	13 789 548 729	.3 .8	10 751 542 663	; ;	
Farms with net losses	number	13 492	.3	4 332	ال	
	\$1,000	126 529	2.1	78 907	2.	
otal farm production expenses <sup>1</sup>	farms \$1,000	27 280 2 700 407	.2	15 083 2 622 446	; 1.:	
Livestock and poultry purchased	farms	9 824	1.8	6 370	1.3	
Feed for livestock and poultry	\$1,000 farms	1 084 325 16 022	.3   1.1	1 076 169 9 221	1.	
. 575 .o. 1100.co. une pouley	\$1,000	464 149	.4	456 563	17	
Seeds, bulbs, plants, and trees	farms	11 358	1.3	9 135	1.3	
Commercial fertilizer	\$1,000	48 466 12 009	1.5 1.3	47 653   9 212	1.9 1.3	
	\$1,000	72 666	1.4	71 180	1,7	

See footnotes at end of table.

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

	All far	ms	Farms with sales of \$10,000 or more		
Item	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	
Total farm production expenses — Con.					
Agricultural chemicalsfarms \$1,000_	12 904 45 925	1.3	9 359 44 286	1.3 1.8	
Petroleum productsfarms	25 235	.4	14 732	.4	
\$1,000_   Electricityfarms	99 575 19 323	.9 .9	91 926 12 573	.9 8.	
\$1,000	49 389	1.6	47 209	1.6	
Hired farm laborfarms	9 934	1.6	7 777	1.6	
\$1,000   Contract laborfarms	172 070 5 545	1.0 2.5	170 382 4 000	1.0 2.7 3.0	
\$1,000	28 102	2.9	26 755	3.0	
Repair and maintenancefarms	22 385 107 753	.7 1.1	13 635 98 974	.6 1.1	
Customwork, machine hire, and rental of machinery and equipment farms	10 679	1.6	7 532	1.7	
\$1,000	52 461	2.4	50 029	1.7 2.5 1.2 1.2 2.3 2.3	
Interestfarms \$1,000	14 744 174 717	1.2 1.2	10 399 160 061	1.2 1.2	
Cash rentfarms	6 655	2.2	5 064	2.3	
\$1,000	50 070	2.3	47 798	2.3	
Property taxesfarms	24 367	.5	13 320	7	
All other farm production expensesfarms	48 047 25 569	1.0	38 774 15 082	1.1 .2	
\$1,000	202 693	.4 7	194 685	.2 .8	
Livestock and poultry:				_	
Cattle and calves inventory	14 637 2 946 334	.2 .1	9 281 2 833 007	.2 1	
Beef cows farms	11 132	. <u>.</u> 2	7 127	.2	
Milk cows farms	830 216 1 714	.2 .2 .7	772 331 1 174	.2 .1 .2 .2 .2 .2	
number	76 285	.2	75 162	.2	
Cattle and calves soldfarms	14 569	.2	9 718	.2	
Hogs and pigs inventoryfarms	3 476 740 1 685	.2 (Z) .8 .7	3 430 637 1 018	(Z)	
number	258 725	.7	248 653	.7	
Hogs and pigs soldfarms number	1 620 460 359	.8 .6	1 018 447 290	.2 (2) .9 .7 .9 .6	
Sheep and lambs inventory farms	1 981	.7	970	.9	
number {	708 070	.2	677 365	.9 .2 .9 .1	
Sheep and lambs sold farms number	1 956 1 310 928	:1	994 1 288 432	.9 .1	
Hens and pullets of laying age inventory farms	2 692	.6 \	1 048	1.0	
number	2 947 184	.1	(D)	(D)	
Broilers and other meat-type chickens sold	112 43 706	3.4 5.3	41 32 875	4.9 6.9	
Horses and ponies inventorynumber	10 930 78 848	.2 .4	4 885 37 361	.3	
			5. 55.		
Selected crops harvested:					
Corn for grain or seed farms	4 295	.4	3 967	.9	
acres bushels	685 568 98 919 585	.2 .2	678 801 98 284 750	.9 .2 .2	
One to all on a second short	1 525	.5	1 444	.5	
Corn for silage or green chopfarms acres	100 798		99 390 \		
tons, green	2 101 438	.4	2 080 162	.3 .3	
Sorghum for grain or seed farms	1 039	.9	936	.9	
acres bushels	190 554 7 327 665	.9 .8	185 367 7 186 788	9. 9. 8.	
		ļ			
Wheat for grain farms	6 992 2 421 603	.3 .2 .2	5 903 2 340 756	.9 .2 .2	
bushels	81 581 401	.2	79 662 741	.2	
Barley for grainfarms	2 404	.5	2 220	.5	
acres	203 226	.4	198 905	.5 .4 .4	
bushels	12 386 192	.4	12 253 512		
Dry edible beans, excluding dry limas farms	1 689	.6 .7	1 608	.6	
acres cwt	169 506 2 521 626	.4	166 624 2 503 625	.6 .7 .4	
Hay-alfalfa, other tame, small grain, wild, grass silage, green chop, etc.					
(see text) farms	13 535 1 423 807	.2 .2 .3	8 256 1 253 851	.2 .2 .3	
acres					

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

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

		All fa	arms	Farms with sales	of \$10,000 or more
item		Percent change	Standard error of estimate (percent)	Percent change	Standard error of estimate (percent)
Farms		.6	.2	.4	.2
Land in farmsValue of land and buildings1:	acres	1.5	.2	5.1	.1
Average per farm	dollars	-18.4	1.4	-18.4	1.5
Total cropland	farms	4	.2	-1.3	
Harvested cropland	acres	4.1	.2	2.9	
narvestea cropiana	acres	-3.1 -8.5	.2 .2 .2 .1	-2.7 -8.6	
Irrigated land	farms acres	-2.1 -5.8	.2 .2	5 -4.8	.3
	acres	-5.6	.2	-4.6	
Market value of agricultural products sold	farms \$1,000	.6 6.9	.2 .1	.4 7.1	.2
Crops, including nursery and greenhouse crops	farms	6	.3	-3.6	.2 .1 .2 (Z 1.3
Livestock, poultry, and their products	\$1,000	-7.7 -4.4	.1	-7.9 -1.3	.1
· · ·	\$1,000	12.8	.2 (Z) .8	13.2	ıź
Poultry and poultry products	farms \$1,000	-34.0 20.0	`. <b>.</b> 8   .1	-24.1 20.2	1.5
Selected farm production expenses1:	• .,				
Livestock and poultry purchased	farms	-7.4	2.3	-2.6	2.6
Food for Business and mouths.	\$1,000	9.8	.6 1.4	9.8	.6
Feed for livestock and poultry	\$1,000	-7.3 -6.7	.5	-2.4 -6.0	1.9
Seeds, bulbs, plants, and trees	farms \$1,000	-6.2 12.1	.5 1.7 2.6	8 12.8	1.6 .5 1.8 2.7
Commercial fertilizer <sup>2</sup>	farms \$1,000	3.2 -6.4	2.0 1.9	4.9 6.4	2.0 1.9
Agricultural chemicals <sup>2</sup>	farms	34.1	2.8	24.6	2.5 3.8 2.3 2.1
Hired farm labor	\$1,000 farms	39.3 -3.3	3.8 2.2	37.3 2.7	3.8
	\$1,000	33.2	2.0	36.0	2.3
Interest <sup>3</sup>	\$1,000	.5 -34.7	1.7	-3.8 -36.4	1.6 1.1
Livestock and poultry inventory:					
Cattle and calves	number	-9.2	.2 .1	-2.3 1.9	.2 .1 .7 .5 .7 (D)
Hogs and pigs		-33.1	.5	-25.6	<u>;</u>
	number .	~22.4	.5 .5 .5	-21.0	.5
Hens and pullets of laying age	number	-29.2 23.1	.5 .1	~27.8 (D)	(0)
Selected crops harvested:  Corn for grain or seed		2.0	.4	3.4	
•	acres	-9.8	.2 .8	-9.9	.2
Sorghum for grain or seed	acres	-22.2 -38.2	.8 .6	-19.7 -37.3	.6
Wheat for grain		-1.8 -15.2	.3	-1.4 -15.5	
Soybeans for beans	farms	554.5	18.0	570.0	19.5
•	acres	574.6	8.3	(D)	(D)
Hay—alfalfa, other tame, small grain, wild, grass silage, green (see text)	chop, etc.	2	.3	1.1	.3
	acres	8.7	.3	10.9	٠ ١
Vegetables harvested for sale (see text)	acres	-11.0 18.9	1.0 ) .5	2.5 19.7	1.1
Land in orchards	farms	-2.9	1.1	27.4	2.2
	acres	-1.0	1.4	11.6	1

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

Table F. Reliability Estimates of County Totals: 1987

[For meaning of abbreviation	Farm		Land in	farms	Average valuand buildings		Estimated ma of all machi equipm	nery and	Harvested	cropland	Irrigated	land
Geographic area	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (doilars)	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)
Adams	701 327 285 152 612	.3 .6 .6 .9	711 874 209 556 295 183 161 009 1 304 716	.4 .7 .9 1.0 .5	626 087 446 880 406 608 731 019 424 482	7.0 3.8 5.8 4.9 5.7	45 404 21 472 11 106 3 741 40 018	5.9 4.9 14.6 6.2 8.5	234 406 72 903 64 599 6 391 (D)	.6 1.2 1.0 3.6 (D)	28 979 108 029 2 046 14 150 40 272	1.8 1.0 4.1 3.2 2.7
Bent	292 752 160 325 11	.6 .3 .7 .5 4.1	855 503 155 488 105 275 862 745 8 435	.3 1.1 1.2 .3 2.8	473 698 549 378 476 513 570 803 645 455	5.1 10.3 6.1 6.7 (Z)	19 980 27 522 4 249 19 343 152	11.5 10.9 6.5 7.0 (Z)	56 190 39 969 12 236 170 229 (D)	1.1 1.4 2.1 .7 (D)	55 498 39 363 15 361 18 614 275	1.3 1.3 2.0 2.2
Conejos	439 191 187 130 900	.6 1.0 .7 .8 .3	301 699 292 125 408 649 150 334 269 036	1.0 .5 .5 .8 .9	391 473 421 314 311 636 415 336 227 792	8.6 4.0 2.3 4.5 5.6	18 076 8 258 9 709 4 049 24 422	8.1 5.0 17.7 9.6 7.0	80 668 26 740 (D) 16 153 44 495	1.3 .9 (D) 1.8 1.0	104 542 30 859 21 122 21 194 65 853	1.2 1.3 1.4 1.8 1.0
Denver Dolores Douglas Eagle Elbert	17 130 454 147 679	4.2 1.0 .3 1.2 .3	44 159 872 212 011 213 441 1 015 333	22.7 1.1 1.0 .6 .4	181 471 354 558 622 670 1 068 469 453 327	(Z) 6.6 6.7 7.7 6.2	225 6 904 10 301 3 806 23 323	(Z) 20.1 11.0 7.5 8.5	(D) 40 120 15 239 18 810 78 708	(D) 2.4 2.6 3.5 1.0	9 1 486 4 627 25 763 5 327	8.1 4.3 2.9 3.2
El Paso Fremont Garfield Gilpin Grand	711 412 480 15 163	.3 .4 .5 4.2 .7	917 824 305 137 483 929 15 540 319 578	.3 .5 .7 3.5 .5	412 848 244 494 496 656 462 867 884 337	5.8 4.4 6.0 (Z) 4.6	17 731 6 141 14 533 149 5 879	12.4 15.2 7.3 (Z) 6.7	30 922 10 447 38 746 (D) 36 993	2.3 1.4 2.0 (D) 1.1	13 166 12 128 53 552 (D) 49 059	3.8 2.3 1.9 (D) 1.1
Gunnison Hinsdale Huerfano Jackson Jefferson	173 16 243 126 446	.8 2.8 .6 .9	225 220 9 899 643 050 460 078 92 351	.7 4.0 .4 .5 1.8	706 283 788 938 541 704 1 663 786 355 993	8.8 (Z) 3.7 7.1 14.0	6 238 280 7 098 7 734 7 281	6.7 (Z) 18.7 9.0 10.5	29 425 (D) 16 137 79 165 7 417	1.6 (D) 1.9 .5 4.0	45 416 1 749 14 086 109 281 3 434	1.2 4.8 1.8 .6 4.4
KiowaKit CarsonLakeLa PlataLarimer	328 793 14 682 1 233	.5 .3 3.2 .4 .3	996 785 1 415 879 11 045 613 579 574 802	, , , , , , ,	615 457 512 470 657 643 518 116 351 279	13.8 5.4 (Z) 3.8 6.8	21 067 71 316 292 22 904 42 574	9.2 4.7 (Z) 7.2 5.8	(D) 434 547 577 48 622 89 805	(D) .4 4.4 1.7 .8	3 122 124 475 (D) 61 461 79 870	4.4 .6 (D) 1.6 .9
Las Animas Lincoln Logan Mesa Mineral	481 489 945 1 223 11	.4 .4 .3 .2	2 149 828 1 615 140 1 081 703 436 841 12 033	.2 .2 .4 .5	524 243 493 356 336 803 290 796 590 818	3.4 3.2 3.9 5.7	11 071 33 776 62 443 27 879 (D)	6.6 4.9 7.0 5.5 (D)	33 203 201 335 274 800 57 487 (D)	1.1 .6 .5 1.1 (D)	32 426 4 984 94 503 81 824 1 505	1.3 2.7 1.0 1.1
Moffat	330 623 826 800 491	.7 .5 .4 .3 .4	1 032 623 843 904 430 594 743 263 731 609	.3 .4 .6 .5 .4	565 564 349 971 272 372 360 791 349 314	2.9 3.2 5.5 5.7 6.4	10 461 18 209 24 310 55 350 21 280	6.5 9.1 7.1 4.4 5.6	51 555 59 099 62 272 199 961 53 713	1.1 2.6 1.2 .5 .7	42 411 35 539 86 529 119 494 56 266	.9 2.2 1.0 .5 1.0
Ouray Park Phillips Pitkin Prowers	88 162 417 70 510	1.0 .6 .4 1.4 .5	(D) 400 090 450 277 33 401 882 165	(D) .3 .5 2.9 .4	1 101 330 793 105 440 053 645 643 563 567	(Z) 2.8 4.2 (Z) 7.1	3 517 3 691 37 316 2 701 37 855	(Z) 6.8 5.6 (Z) 5.7	9 747 15 879 194 641 6 327 (D)	1.5 1.8 .5 3.7 (D)	13 350 14 346 70 283 13 926 104 831	1.3 2.3 .5 2.7 1.3
Pueblo	615 231 345 405 254	.4 .8 .5 .5	892 183 505 471 221 155 589 386 472 194	.4 .4 .9 .5 .4	335 698 569 065 669 329 667 691 713 190	4.6 5.4 20.3 5.5 11.3	17 274 8 555 28 393 17 435 17 068	7.5 5.7 7.7 11.7 4.3	38 890 30 655 81 343 52 841 103 194	1.8 1.6 .9 1.1	31 647 26 999 116 779 44 432 136 553	2.1 1.3 1.0 1.7 .9
San Juan San Miguel San Miguel Sedgwick Summit Teller	3 84 263 21 67	.9 .6 4.0 1.5	(D) 169 253 324 286 34 368 83 281	(D) .8 .7 3.0 1.3	213 667 764 536 374 468 1 222 952 595 836	(Z) 6.9 (Z) (Z)	(D) 2 968 19 766 856 1 245	(D) (Z) 7.2 (Z) (Z)	(D) 10 168 118 672 6 885 (D)	(D) 2.1 .7 4.7 (D)	(D) 10 859 39 524 10 465 1 003	(D) 1.6 .8 3.1 5.0
Washington Weld	854 2 975 975	.3 .2 .3	1 391 208 2 105 149 1 478 313	.3 .2 .3	450 734 438 128 509 497	5.7 4.7 6.8	54 727 204 640 90 647	5.7 2.3 5.0	416 082 547 613 395 529	.4 .3 .4	39 547 358 565 246 116	1.3 .4 .4
	Cattle and invent		Hogs and pig	s inventory	Corn for grai	n or seed	Wheat for	r grain	Soybeans f	or beans	Market value of products	
Geographic area	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Adams Alamosa Arapahoe Archuleta Baca	33 784 14 210 12 647 12 820 82 698	.8 2.4 1.2 1.1 .5	21 205 1 456 1 525 61 2 793	1.4 7.0 6.1 6.7 29.4	6 309 (D) (D) (D) 7 776	2.6 (D) (D) (D) 4.8	181 215 5 748 53 759 (D) 154 955	.6 2.9 1.1 (D) 1.2	1111	- - - -	90 556 34 205 13 795 9 130 72 442	.1 .4 .5 .6
Bent	62 018 19 578 11 263 31 650 (D)	.6 1.2 1.7 .6 (D)	2 733 2 216 (D) 1 459	10.1 9.3 (D) 4.2	6 756 5 463 - 5 934	2.9 2.7 2.0	8 522 5 240 136 571	1.3 5.1 - .8	254 - - - -	11.5 - - - -	36 977 39 625 4 617 26 878 (D)	.4 .3 1.3 .4 (D)

See footnotes at end of table.

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

[For meaning of abbreviation	is and symbols,	see miloudo	lory text)			<del></del>	<u> </u>					
	Cattle and invent	calves ory	Hogs and pig	s inventory	Corn for grai	n or seed	Wheat fo	r grain	Soybeans f	or beans	Market value o products	
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)
Conejos	38 867 8 079 86 024 12 059 41 635	1.8 2.8 .3 3.0 1.1	366 293 1 952 (D) 2 653	11.4 16.4 4.9 (D) 3.3	- 4 907 (D) 4 358	1.4 (D) 2.3	1 928 2 646 1 939 569	4.6 2.5 12.9 10.4	- - (D)	(D)	18 856 11 726 87 708 5 064 29 877	.9 .6 .1 1.2 .6
Denver	(D) 6 120 10 797 20 148 55 176	(D) 1.9 1.5 2.8 .8	10 226 19 988	30.8 11.3 13.5 6.4	-   -   -   (D)	- - - (D)	11 665 2 724 36 654	2.9 8.0 - 1.2	11111	-	2 014 4 411 8 859 6 212 26 246	.1 1.3 .8 1.7
El Paso	46 344 16 017 41 036 284 24 381	.6 1.0 1.7 3.6 .6	354 939 414 - 30	7.4 12.5 10.4 29.3	(D) 68 - -	(D) 27.7 -	5 637 138 1 450 (D)	6.4 19.0 8.7 (D)	(D) - - -	(D) - - - -	23 557 9 924 16 738 95 8 133	.5 .7 1.1 4.0 .5
GunnisonHinsdaleHuerfano	30 343 1 563 27 452 40 849 5 314	1.0 2.9 .6 .4 2.7	(D) - 256 (D) 113	(D) 7.2 (D) 14.7	- (D) -	(D) -	(D) 715	(D) 16.2	1111	- - - -	9 621 403 7 702 13 786 15 022	.9 4.9 .7 .6 .3
Kiowa Kit Carson Lake La Plata La rimer	34 854 134 620 311 34 266 76 926	.6 .3 1.0 1.5 .4	337 7 260 (D) 1 823 7 770	17.0 3.8 (D) 18.3 2.0	227 59 061 (D) 15 153	5.9 .6 (D) 2.0	144 306 302 218 5 524 13 616	.7 .5 - 3.9 2.5		-	21 313 126 573 541 16 040 90 188	.4 .1 (Z) .9 .2
Las Animas Lincoln Logan Mesa Mineral Mineral	65 380 72 239 106 775 54 946 (D)	.9 .4 .4 1.2 (D)	282 4 092 21 091 6 869	19.0 3.8 1.3 2.0	1 422 330 47 011 7 601	5.3 6.4 .9 2.2	11 801 159 508 144 860 1 015	.7 .6 .8 6.2	1 422	3.6	20 846 57 069 191 184 39 253 181	.3 .3 .1 .5
Moffat Montezuma Montrose Morgan Otero	27 044 27 174 55 750 198 890 74 096	.9 1.8 1.2 .2 .4	136 119 8 238 51 384 6 590	4.9 15.4 5.3 .5 8.0	(D) 8 065 61 912 16 073	(D) 3.3 .7 .9	20 844 6 793 1 953 66 597 5 144	1.6 3.1 4.6 1.2 1.1	(D) (D) 290	(D) (D) 6.8	14 506 11 109 45 953 276 230 79 261	.4 1.1 .5 .1 .2
Ouray	11 112 10 074 33 724 3 330 107 402	.9 1.4 .4 5.6 .5	(D) 37 3 400 (D) 6 062	(D) 16.9 4.1 (D) 1.7	64 492 10 494	- .7 - 2.1	(D) 99 602 (D) 104 073	(D) .8 (D) .7	785 -	4.5	3 382 3 594 55 492 1 628 143 988	.5 1.4 .2 4.1 .1
Pueblo Rio Blanco Rio Grande Routt Saguache	63 688 35 711 16 567 30 973 31 203	.5 .7 2.6 1.2 1.7	3 426 89 2 228 119 (D)	6.9 6.2 4.9 9.8 (D)	5 659 (D)	1.9 (D) - -	3 904 5 740 9 044 9 950 12 382	5.8 7.6 2.1 3.1 1.2	(D) - - -	(D) - - - -	38 389 14 755 35 254 19 757 36 085	.4 .4 .4 .6
San Juan San Miguel Sedgwick Summit Teller	(D) 9 896 22 150 2 998 2 863	(D) 1.0 .9 3.6 1.4	(D) 540 - 8	(D) 6.0 14.3	28 975 - -	- - .7 -	(D) 1 898 65 227 -	(D) .7 1.2	(D)	(D)	(D) 3 356 31 409 1 154 1 114	(D) .6 .3 1.8 2.3
Washington Weld Yuma	67 695 588 378 151 569	.5 .1 .3	24 125 42 947 16 065	2.6 1.1 3.1	24 073 121 556 171 032	.8 .5 .5	301 998 164 682 146 020	.5 .8 .9	610 (D) 2 076	(D)	84 349 864 605 180 247	.2 (Z) .1

	Selected farm production expenses 1												
Geographic area	Livestock a purch	and poultry nased	Commercial fertilizer		Hired fa	rm labor	Petroleum	products	Electricity for the farm business				
assignapino alca	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)			
AdamsAlamosaArapahoeArchuletaBaca	24 868 737 788 2 680 27 458	1.5 48.5 28.6 6.8 5.1	2 379 1 701 180 50 1 656	7.2 7.8 23.7 29.0 12.0	8 353 2 075 1 515 714 2 006	2.9 5.8 7.9 5.5 7.7	3 982 1 507 995 240 2 998	3.0 7.6 6.4 7.8 8.1	1 482 1 519 289 69 (D)	11.9 9.5 11.7 14.0 (D)			
Bent	13 734 5 849 309 6 153 40	4.1 9.0 9.6 4.4 (Z)	321 650 66 1 021 2	19.0 11.9 7.3 15.2	1 849 4 004 653 757 (D)	16.2 6.2 9.5 12.8 (D)	1 107 1 503 264 1 717 6	7.7 7.1 6.2 6.4	399 515 89 470 4	8.0 5.4 15.4 5.3			
Conejos Costilla Crowley Custer Delta	3 232 331 51 117 831 3 219	14.0 14.3 .1 12.3 10.3	589 602 154 155 638	15.3 2.9 21.4 15.7 6.3	1 581 1 295 1 235 216 3 754	9.7 2.7 8.3 17.4 9.1	1 675 691 696 229 1 297	8.5 6.3 7.8 8.7 8.5	448 325 245 54 448	17.2 5.7 5.0 8.9 7.8			
Denver Dolores Douglas Eagle Elbert	865 2 257 1 343 6 415	17.8 13.4 2.8 9.3	(D) 101 81 56 306	(D) 14.8 45.9 10.5 20.7	473 228 983 786 1 041	5.7 7.2 14.9 10.0	69 331 593 296 1 273	9.4 6.8 7.6 6.0	35 37 178 54 347	15.9 9.0 10.3 9.4			

See footnotes at end of table.

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

		Selected farm production expenses1												
Geographic area	Livestock a purch		Commercia	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)	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)				
El Paso Fremont Garfield Gilpin Grand	3 736 1 922 2 557 26 1 804	16.6 9.3 11.2 (Z) 11.9	282 81 235 166	10.5 12.1 10.9 - 7.4	2 728 921 1 735 (D) 957	5.8 2.6 12.2 (D) 4.7	1 225 611 1 046 5 420	7.6 6.8 7.4 (Z) 7.4	622 171 283 3 (D)	8.3 10.3 14.6 (Z) (D)				
Gunnison Hinsdale Huerfano Jackson Jefferson	1 197 (D) 1 855 3 118 630	10.9 (D) 18.1 10.0 44.2	87 (D) 130 390 159	8.2 (D) 17.1 4.8 20.4	972 14 298 1 676 3 594	6.4 - 3.7 6.5 8.4	462 20 434 588 1 040	6.3 - 8.5 4.3 10.8	96 1 129 235 552	13.3 - 15.2 6.1 6.9				
KiowaKit Carson LakeLa PlataLarimer	4 935 41 059 46 2 106 24 752	8.3 1.5 - 13.6 2.6	776 5 352 (D) 462 1 695	20.4 3.6 (D) 12.7 8.6	1 000 4 833 (D) 1 666 6 773	16.7 6.0 (D) 12.6 5.5	1 448 5 886 13 1 044 2 992	4.8 4.8 - 10.0 6.5	223 2 611 4 294 1 214	9.9 7.7				
Las Animas Lincoln Logan Mesa Mineral	3 065 23 054 100 694 7 315 75	6.1 2.9 .8 10.2	218 1 499 3 425 1 072 (D)	10.9 9.9 6.6 11.4 (D)	1 352 2 852 4 373 4 954 (D)	3.2 8.3 8.6 9.9 (D)	1 189 2 514 3 793 2 156 12	4.6 6.6 3.1 6.7	273 528 1 617 526 5	5.4 13.9 7.7 6.3				
Moffat Montezuma Montrose Morgan Otero	3 074 1 381 8 046 117 063 34 602	6.8 24.9 4.9 .7 3.1	124 231 1 444 4 781 1 036	23.8 16.8 6.9 7.7 10.6	1 291 762 3 038 8 056 4 488	6.2 20.5 12.5 2.9 5.1	897 963 1 802 3 891 2 121	9.9 8.6 7.0 4.3 4.4	199 157 462 3 423 574	15.9 12.8 17.8 6.8 4.7				
Ouray Park Phillips Pitkin Prowers	420 732 13 051 424 72 165	(Z) 6.7 1.8 (Z) .9	100 82 3 633 27 1 634	15.3 6.0 - 13.1	421 259 2 162 130 5 770	15.3 10.3 (Z) 10.4	186 224 2 406 123 3 735	(Z) 6.6 6.9 (Z) 4.3	65 45 2 351 28 1 046	(Z) 6.7 9.4 (Z) 5.6				
Pueblo Rio Blanco Rio Grande Routt Saguache	10 858 2 824 859 4 075 2 645	3.8 6.8 34.2 8.1 24.1	777 324 2 738 302 2 423	13.7 6.2 6.5 33.7 7.6	2 431 1 180 3 132 1 293 3 281	6.9 5.1 5.0 6.5 2.8	1 239 742 1 759 883 1 536	7.3 5.1 5.6 7.6 4.8	439 166 1 840 173 1 857	7.4 7.8 6.7 9.1 9.5				
San JuanSan MiguelSedgwickSummitTeller	(D) 672 6 264 611 262	(D) - 6.2 (Z) (Z)	65 1 935 21 10	- 14.2 - -	(D) 219 1 870 100 30	(D) (Z) 15.9 (X)	8 257 1 503 67 99	(Z) 10.7 (Z) (Z)	(D) 36 948 10 11	(D) (Z) 5.5 (Z)				
Washington Weld Yuma	17 999 356 408 53 647	2.9 .4 .8	3 996 9 682 10 526	7.3 3.0 2.9	3 920 47 611 6 335	7.1 1.6 2.2	3 987 16 417 6 362	5.3 1.5 4.1	2 062 7 651 8 730	9.4 3.5 4.5				

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

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

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

	Not on	mail list	Percent not on mail list			
ltem	Total number	Relative standard error of estimate (percent)	Total percent	Standard error of percent		
Farmsnumber_	3 577	10.7	11.6	1.2		
Land in farmsacres_	213 671	27.2	.6			
Farms by size: Less than 50 acres	2 011	13.8	22.1	3.1		
	1 567	15.3	7.2	1.1		
Harvested croplandfarmsacres	2 371	18.8	10.9	2.0		
	79 456	33.6	1.4	.5		
Farms by value of sales:       farms.         Less than \$2,500       farms.         \$2,500 or more       farms.         \$2,500 to \$9,999       farms.         \$10,000 or more       farms.	2 740	12.4	29.3	3.6		
	838	17.1	3.9	.7		
	(S)	(S)	(S)	(S)		
	(S)	(S)	(S)	(S)		
Market value of agricultural products sold \$1,000	4 190	27.0	.1	(Z)		
Farms by standard industrial classification:  Crops (01)	1 877	14.8	14.3	2.1		
	1 701	14.3	9.6	1.4		
Farms by tenure of operator: Full owners	3 092	11.6	17.2	2.0		
	486	12.9	3.8	.5		
Operators by principal occupation: Farming	1 259	14.5	7.1	1.0		
	2 318	13.9	17.7	2.5		
Average age of operatoryears_	46.7	(Z)	(X)	(X)		

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

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

# APPENDIX D. Report Form and Information Sheet

		BRUARY 1, 1988											534: Approval Expire		
FO! (9-3	1M <b>87-</b> A	0209			PARTMENT OF C BUREAU OF		NOTICE - R	espor BUR tical t	nse to this inquiry is require EAU IS CONFIDENTIAL. It purposes. Your report CAN	d by lan may be NOT be	w (title 13, U. e seen only b e used for pur	S. Code). By y sworn Cent poses of taxa	the same law Yesus employees a tion, investigation	OUR R and ma	EPORT TO sy be used regulation.
				CE	D STATI NSUS				les that copies retained in y e pertaining to this repor					N)	
044	A(	G CENSUS USA	UF	AGK	ICULTU	'RE		_					87-A0209		
P	nase co	nplete this a RETURN TO	1201 Ea		E CENSUS Street N 47133		<u> </u>						'		
8	sed. If y ent to 1	If your records are rou cannot file by Fethe above address CFN) as shown in y	bruary 1, a . include y	time ext our 12-	tension reque: character Ce	st may be insus File	:{								
a Y	eport for ensus Fil nd return our compl	ved more than one m, enter extra e Number(s) here extra copies with eted report.		037	038										
Ιu	ENSUS SE NLY	039 040		041	042		Please co	rrect	errors in name, address, ar	nd ZIP (	Code. ENTER	street and nu	ımber if not sho	wn.	
¥S	SECTION A  ACREAGE IN 1987 Report land owned, rented, or u by you, your spouse, or by the partnership, corporatio organization for which you are reporting. Include ALL I REGARDLESS OF LOCATION OR USE — cropland, pastureland, rangeland, woodland, idle land, house lot						used en, or LAND,	IN: Us and	STRUCTIONS — Please section 7 to report 0 d section 8. DO NOT II	e rep NLY t	ort your cro hose CROF DE crops g	ops in the a S NOT list rown on la	ppropriate se ed in section:	ction 2 th other	rough 6
	if the a	cres you operated h	n 1987 cha	nged du	ring the year,	_		848 ST	in 1987?	it the r	Acres		ty harvested		Acres
				occon .	•	1.	Number of acres	١.	. Com (field) for grain or	None	harvested	068		069	rigated
i		rented or leased FR0				니		<b> </b> ''	seed (Report quantity on a dry shelled-weight basis.)			{ <del> </del>	OR Bu Lbs.	}	
-	by you paymer	on shares, used rent at of taxes, etc. Inclu	free, in exch de leased Fe	ange for deral, St	services, ate, and railroa		044	2.	. Corn (field) for silage	_	070	071	Tons,	072	
		O NOT include land in permit.) Also compl				🗆 📗	045	,	or green chop	_	554	555	green Cwt.	556	
з.		rented or leased TO by others and land su					,45	l l	. Wheat for grain		073	074	Bu.	075	
4.		in "THIS PLAC res rented (item 2)		•		i a	046		Oats for grain		076	077	Bu.	078	
	and ac TO OT	res rented (item 2) HERS (item 3), and	, then SUB l enter the	TRACT . result in	acres rented this space	<b>→</b>		6.	Barley for grain		079	080	Bu.	081	
		s census report the: ntry is zero please n					1.	7.	Sorghum for grain or seed				Bu.		
5.		nted land FROM OTHI						8.	Sorghum for silage or green chop (Do not include		085	088	Tons,	087	
		Name of landlord	Mailir	ig addres	s (Include ZIP	Code)	Number of acres		sorghum-sudan crosses.)		719	720	green	721	
									. Sugar beets for sugar . Cotton		091	092	Tons	093	
	List addi	tional landlords on a seg	erate sheet o	paper.					Potatoes, Irish		097	098	Cwt.	099	/10
6.	If you re	ented land TO OTHER	RS (item 3),	enter the					CTION 31 Was any D	RY HA	Y, GRASS S	LAGE, HAY	LAGE, or GRE	EN CI	IOP cut
		Name of renter	Mailir	ig addres	s (Include ZIP	Code) I	Number of acres		Include so	rghum	-sudan cros	es and hay	cut from pastu. NO — Go to se		4
		N							If cuttings were made for be from the same fields, report	oth dry i	hay and grass reage in the ap	silage, haylage propriate item	e, or green chop is under DRY		
	List addi	tional renters on a separ	ate sheet of p	aper.				,	HAY and also under GRASS  DRY HAY (If two or m			Acres	Quantity		Acres
	acres	e land you rented or did you own?			:. Ц	053	Acres	•	hay were made from the s acres only once, but repor cuttings.)	ame ac	res, report	harvested	(Report either or green weigl indicated)	dev 1	irrigated
<b>'</b>	054	have any grazing perm	ins on a per-	nead dasis	s/ (3 ☐ Fores	t Service			<ul> <li>Alfalfa and alfalfa mix hay or dehydrating .</li> </ul>				1 1	ons, Iry	108
	1 🗆 Ye	es – Mark (X) all bo.	xes which a	pply	↓ □ Taylo s □ Indiar		Sec. 3 (BLM)		b. Small grain hay — oat barley, rye, etc			108	3	ons, lry	111
	2 🔲 N	o — Go to item 8		ı	6 Other	r — Spec	ify)		c. Other tame dry hay - timothy, bromegrass,	,		109		ons,	111
8.		ION OF AGRICULTU	RAL ACTIVI	TY FOR "	THIS PLACE"		<del>_</del>		Sudangrass, etc			112	113	ons,	114
	large	nat county was the	Principal	Co	unty name		Number of acres	2	d. Wild hay	LAGE	, AND			lry	
		ultural products d or produced?	county_				057		GREEN CHOP (If two of were made from the same acres only once, but report	e acres. rt total	, report tons from	115	116	ons,	117
	opera	also had agricultural tions in any other ty(les), enter the	Other counties				058	3.	all cuttings.)	 ou sel 37? (Re	I any hay port value	118 1   Ye		r <del>se</del> n	
<u></u>		ry name(s), etc	.	<u></u>				L	of hay sold in section 9, its	em 3) .	<del></del>	<u> </u>		<del>-</del> —	

	SECTION 452 Were any VEGETABLES, SWEET CORN, MELONS, etc., harvested FOR SALE from "THIS PLACE" in 1987? (Do not include those grown for					R	SECT	ЮИ,		Were "THIS	any ST S PLAC	RAY	BERRIE 1987?	8 or 01 (Do not	HER BERR	IES harvest	ed FOR SALI or home use.	E from	
home i			., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, <b>,</b>						_			Comple	-				
1 -		- Complete									2 🔲	NO	_	Go to se	ection 7				
2 📙	NO	<ul> <li>Go to sect</li> </ul>	on 5						rop na	ame		Code		res harv		Quantity	harvested	Acres irr	
			Ac			es irrigat		Black				-	Who	le acres	Tenths	510		Whole acres	Tenths
Land from which veg harvested in 1987			Whole acre	s Tenth	376	acres	/10	dewb				509			/10		Lbs.		/10
2. From the list below.	enter t	he crop name a	nd code for ea	ch crop ha	ervested in	1987.		Raspt	errie	s		533			/10	534	Lbs.	535	/10
If more than one veg each crop. Report cr	etable	crop was harve	sted from the	same acre	es, report a	acres for		Straw	berrie	es		536			/10	537	Lbs.	638	/10
Crop nam		Coc		arvested		es irrigat	ted	Other Specif	berri	es		539			! <b>i</b>	540		541	!
Sweet com		46	· .	/1	0 462		/10								/10		Lbs.		/10
					0		/10	If more	space		_	-		sheet of	osper.				
			<del></del>		1		/10	∰SECT	ION:									" in 1987 — r other crop:	
<b></b>					1		/10	•								it in section			
			-	/1	13		/10				1 🗆	YES	_	Compl	ete this	<b>section</b>			
If more space is needed, us	e a sep	erate sheet of pag	er.		<u> </u>			Ī				NO		Go to s					
Crop name Asparagus	Cod	e Crop name		ode   Cro			Code	For th	ose c	rops	not li	sted e	nter t	he crop	name a	nd code fro	om the list l	elow.	
Beans, snap	eans, snap					. 451		t quai	ntity f	harves	sted in	unit s	pecified	with cr	op name.				
Cabbage, head	391	Lettuce and Onions, dry	romaine 4	27 Sqi 33   Tai	uash mato <del>es</del>		. 459 . 463		Crop	nam	ne	c	ode	Acres h	arveste	J Quantit	y harvested	Acres in	rigated
muskmelons	395	Onions, are	en 4	35 Tur 37 I Wa	mips ntermelons		. 465 . 473	Alfalf					542	<del> </del>		657	Lbs		
Celery	401	! ≀ Peppers, sv		43 I S	nervegetab pecify		. 475	Peanu	uts fo	r nuts	<u> </u>	<del>- +</del> '	656			566	Lbi		
ur a respective					USHROO	MS. sor	1.	Proso	mille	rt			665			687	Bu.		
bulbs,	SECTION 55  Were any NURSERY and GREENHOUSE CROPS, MUSHROOMS, and, bulbs, flowers, flower seeds, vegetable seeds and plants, vegetables un glass or other protection, GROWN FOR SALE on "THIS PLACE" in 198					under	Rye fo		_			688 Bu. 700					700		
glass or other protection, GROTHE FOR SALE On "I HIS PLACE" In 1987  S5 1 YES — Complete this section					96/1	Sorgh forage			r dry		598				To: dry	18,			
2		Go to sect			Area irrig	ated		Sunfi	ower	seed			734			735	Lbs	736	
			None	Square 477	feet A		Tenths									1		2	
1. Nursery and greenho	ouse ci	rops irrigated in	1987				/10									1		2	
2. From the list below,	enter t	he crop name a	nd code for ea	ch crop gr	rown.											1		2	
Crop name	Code	Square feet under glass o other protecti	in 19	he open 87	Sale	s in 198	17			-		_				1		2	
		in 1987	Whole acres	Tenths	Dolls	rs	Cents		_							<del> </del>		- 2	
				/10	\$		00									1,		2	
			<u> </u>	/10	\$		00	lf man		. ia aa	-ded :			sheet of		<u> </u>		<u> </u>	
			_L'	/10	\$		00	Crop		7 40 (100	, L	200 d \$4)	perate	Coc		Crop name			Code
If more space is needed, us Crop name		Code	, Crop nem				Code	Brome Corn c	grass ut for	seed dry fo	(poun	ds) hogge	 i	58	9	Ryegrass ser Sorghum hor	ed (pounds) gged or graze		
Bedding plants (Include v Bulbs (Exclude bulb flow	erina p	lants) 482	. Mushroon	13	nts		494	or gra	azed ( lible pe	report	t acres	s only)		58 65	9 . :	freport acre Soybeans fo	es only) or beens (bus	hels)	088
Cut flowers and cut flori Nursery crops — orname and nut trees, and vine	ntals, f	ruit	, Vegetable	and flowe	r seeds	. <i>.</i>	. 500	Grains	, mixe	d (bus	shels)	nas) pil)		60	4 , '	Wheatgrass	seed (pound	s)	. 758
Foliage plants		707	Other —	Specify			. 606	Popco	m (po	unds,	shelle	d)	• • • •	66	2	other crops	(podrios) —		. , , , , ,
SECTION 8 Was th				FRUIT TR	EES, Inclu	ıding GF	RAPEV	INES an	d NU	TTRE	EES, a	on "TH	IS PL	ACE" in	19877	_			
		Complete			Г	Tota	al acres		Acı	res irr	rigated	d							
1. TOTAL ACRES in b		<ul> <li>Go to sect</li> </ul>		vinever	ds, 12	Whole ac		enths \	Whole										
and nut trees on this	place.	(Do not includ	abandoned a	cres.)	13,			/10	22			/10							
2. For those crops not in Report the requested													in 19	87.					
		NUMB TREES OR V			in trees		Quantit		Unit	of me	asure ne		_						
Crop name	Code	Nonbearing age	Bearing age	L	ages Tenths	h	arveste	ed 1	Lbs.	Tons	Boxes								
Apples	123		124	125	/10	126		- 1	127	2 🗆	3 🗆	128	1	Cm	op name			Code	
	345	_	346	347	/10	348		- 3	349		3 🗆	350	1	Ap	ricots .			129	
	587		588	589	/10	590		5		-	3 🗆	592	1	Ne Pe	ctarines ars			201	
	225		226	227	/10	228		12	229			1230	1	Plu	ms and	prunes	Specify	243	
Pecans	339	-	340	341	/10	342		3	143			344	1						
				2	/10	3		4	•	2 🗆		5	1						
				2	/10	3		4		2 🗆	3 🗆	5	1						
If more space is needed, us FORM 87-A0209 (9-3-86)	e a sept	erate sheet of pag	er.						_=_1										

Page 2

ā S	GROSS VALUE of CROPS SOLD from "THIS PLACE" in 19	87, BEFORE	SECTION 18X Did you or anyone else have any CATTLE or CALVES on this place in 19877
	se taxes and expenses (Refer to the INFORMATION SHEET, section Report your best estimate of the value for each of the following group		1 YES - Complete this section
	from this place in 1987. Include the value of the landlord's and/or con estimating if necessary, Include value of Government CCC loans,		2 NO — Go to section 14 INVENTORY
١.	Dal	llars Cents	DECEMBER 31, 1987 INVENTORY     None place Dec. 31, 1987
١"	Grains, soybeans and other beans sold in 1987  a. Corn for grain	00	1. CATTLE AND CALVES of all ages
	<b>b.</b> Wheat	00	(Total of a, b, c, and d below)
			had caived
1	c. Soybeans \$	00	b.MILK COWS kept for production of milk or
	<b>d.</b> Sorghum for grain	00_	milk cows and milk heifers that had calved
	e. Barley	00	and
	f. Oats	00	heifers that had calved.)
	g. Other - rye, dry beans, proso millet, popcorn, sunflower seed, etc	. 00	d.STEERS, STEER CALVES, BULLS, Steers and bulls of
2	Cotton and cottonseed	00	AND BULL CALVES
1	782	i	CATTLE AND CALVES SOLD     FROM THIS PLACE IN 1987
	Hay, silage, field seeds, and grass seeds	00	Include those fed on this place on a contract or custom basis. Also report in 1987
	Irish potatoes and sweetpotatoes, report them in item 6 below.)	00	as sold cattle moved from this place None Dollars Cents to a feedlot for further feeding.
3.	Fruits, nuts, and berries — apples, cherries, peaches, pecans, raspberries, etc	00	2. Calves weighing less than 500 pounds  \$
6.	Other crops — potatoes, sugar beets, peanuts, etc.		3. Cattle, including calves weighing
	(Do not include nursery and greenhouse crops.) —  Specify S	00	500 pounds or more
Ś	ECTION 10) How were the ACRES in this place USED in 1987?		a - Of the total cattle sold, how many were FATTENED on this place on GRAIN or 812 813
	\$10		CONCENTRATES for 30 days or more and SOLD for SLAUGHTER? \$
٦٠	Copy acres in "THIS PLACE" from section 1, item 4, page 1	Acres	
	raport it in the FIRST land use listed below that applies. For example, report cro harvested and also pastured, only as "Cropland harvested."	ppland	DAIRY PRODUCTS SOLD FROM  THIS PLACE IN 1997  THIS PLACE IN 1
2.	CROPLAND None 1	Number of acres	None Dollars Cents
1	were harvested or hay was cut, and all land in orchards, citrus	87	4. Gross value of sales of DAIRY PRODUCTS from this place in 1987 — Include milk, cream,
	groves, vineyards, and nursery and greenhouse crops	88	
	b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without additional improvements.		S14
		89	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	90	DECEMBER 31, 1967 INVENTIONY
	report here land in orchards and vineyards on which the crop failed. Such acreage is to be reported in item 2a.)		816
	e. Cropland in cultivated summer fallow	91	a.HOGS and PIGS used or to be used for BREEDING Breeding
	f. Cropland idle	93	b.OTHER HOGS and PIGS
3.	woodland — include all a. Woodland pastured	94	LITTERS FARROWED  None Number of litters
	woodlots and timber tracts and cutover and deforested land with young timber growth,	95	2. LITTERS FARROWED on this place between None Number of litters  a. December 1, 1986 and May 31, 1987
4.	Other pastureland and rangeland — Include any pastureland	96	<b>b.</b> June 1, 1987 and November 30, 1987
	other than cropland and woodland pasture.  All other land — Land in house lots, ponds, roads, wasteland,7s	97	Number Gross value of sales
	etc. — Include any land not reported in items 2 through 4 above		HOGS AND PIGS SOLD     None in 1987     Dollars Cents
6.	TOTAL ACRES — Add the acres reported in items 2 through 5 (Should be the same as item 1 above .)	798	3. HOGS and PIGS SOLD from this
ŞSI	CTION:11 Was any LAND in this place IRRIGATED at any time in 198	7?	place in 1987
	Irrigated land is all land watered by any artificial or controlled means — sprinkle or ditches, spreader dikes, etc. Include supplemental, partial, and preplant irriga	rs, furrows etion.	4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?
	S11 , T VES Complete this service		SECTION 15 Did you or anyone else have any SHEEP or LAMBS on this place in 1987?
	2 NO - Go to section 12 None	Number of acres irrigated	1 YES — Complete this section
1.	How many acres of harvested land were irrigated?	во	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, itam 2a		INVENTORY NUMBER SOLD
	How many acres of pastureland, rangeland, and any other	81	None place Dec. 31, 1987 In 1987
-	lands not included in item 1 above were irrigated?	DIED	1. SHEEP and LAMBS of all ages
8 S E	CTION 128 Were any ACRES in this place SET ASIDE, DIVERTED, OR I under FEDERAL acreage reduction programs in 1987?	DLED	a.EWES 1 year old or older
	\$12		Number shorn Pounds of wool
	1  YES — Complete this section 2  NO — Go to section 13		None in 1987 shorn in 1987
_	None   F	Number of acres	2. SHEEP and LAMBS SHORN
	How many acres were set aside (or diverted) under ANNUAL commodity acreage adjustment programs?		Gross value of sales
	How many acres were under the CONSERVATION RESERVE	93	3. What was the gross value of sales of SHEEP,
	PROGRAM (10 year, CRP)?		LAMBS, and WOOL from this place in 1987?

S18	
1 YES - Complete this section 2 NO - Go to section 17 1. Amount received in 1987 from Government CCC loans for - None Dollar	Cents
INVENTORY Include regular and reserve loans, even if redeemed or forfeited.	1
this place in 1987	1 00
1. Horses and ponies 830 831 832 B. Willed B. William B. Willed B. Willed B. William B	1 00
of all ages	; 00
Number 842 d. Sorghum, barley, and oats	00
2. Colonies of bees	00_
843   844	00
3. Milk goats	
SHEET, section 19. None Dollar	
B49 Pounds \$ 00	
4. Angora goats Pounds \$ 00 1. Amount received in cash	00
5. Other goats	00
6 Mules burros and 833 834 835 SECTION 201 TYPE OF ORGANIZATION	
donkeys	
7. Mink and their this place in 1987. Refer to the INFORMATION SHEET, section 20.	
854 855 856 FAMILY or INDIVIDUAL operation —	
(Do not include partites strip and corporations)	section 22
9. All other livestock and partnerships	
Specify Number \$ 00 INCORPORATED UNDER STATE LAW 3 Go to	section 21
OTHER, such as estate or trust, prison farm, grazing association, Indian reservation, etc	fy below then
products (Enter name and in 1987 Dollars Cents	section 22
Code from list below.)   Name   Code   OB Pounds   2	
Number \$ 100   SECTION 21%   CORPORATE STRUCTURE (for incorporated operations only)  Refer to the INFORMATION SHEET, section 21.	
Name         Code         S21           Catfish	_
Trout	2 ∐ No
SECTION: 7/1 Did you or anyone else have any POULTRY, such as CHICKENS,	4 🗌 No
TURKEYS, DUCKS, etc., on this place in 1987? — Include poultry grown for others on a contract basis.    SECTION 22  CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior of the INFORMATION SHEET, section 22.	or partner
S17 VFS Complete this position   Number on   Total number   S22	
2 NO — Go to section 18 None Dec. 31, 1987 person in charge live on this place?	2 🔲 No
1. HENS and PULLETS of laying age	
2. PULLETS for laying flock replacement  B94  B94  B95  did the operator spend the majority (50 percent or more) of his/her worktime in 1987? For partnerships	
a .PULLETS 3 months old or older not yet of laying age or ranch  b. PULLET CHICKS and PULLETS under 3 months old or of laying age or ranch	
(Do not include commercial broilers.)	
3. BROILERS, fryers, and other meat-type chickens including capons and roasters	•
at a nonfarm job, business, or on someone else's farm for pay. (Do not include exchange farmwork.).	-
a.Turkeys for slaughter (Do not include breeders.)	99 davs
b.Turkey HENS kept for breeding	s or more
5. OTHER POULTRY raised in captivity — ducks, geese, pigeons or squab, pheasants, quail, etc.  4. In what YEAR did the operator (or senior partner) begin to operate any part of this place?	'ear
(Enter poultry name and code from the list below.)	eai
D	ears old
Paultry name Code 1  White	
Name Code Name Code Ducks	Black
Geese	
6. POULTRY HATCHED on this place in 1987 and None Number	
placed or sold — chickens, turkeys, ducks, etc. —	
Specify kind of poultry   917	
7. Incubator egg capacity on December 31, 1987	2  Female
Gross value of sales	
poultry and poultry products (eggs,	□ N-
etc.) from this place in 1987?   \$   00   (Mexican, Puerto Rican, Cuban, or other Spanish)? 1   Yes	2 No

1987 CENSUS OF AGRICULTURE

PRODUCTION EXPENSES paid by you and others for the second	his	SSECTION: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 landlord, contribuyers, and others for production of crops, livestock, and other agriculture	ractors,	S25 1 YES — Complete this section	2 NO — Go to section 26						
in 1987. (DO NOT INCLUDE expenses connected with performing cust others; operation of nonfarm activities, businesses, or services; or house expenses not related to the farm business.)	hold	Include any materials provided by you, your landlords, listed, report acres only once. If multipurpose chemical treated for each purpose.							
1. Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep, lambs, goats, horses, chicks, poults, started pullets, etc.	Dollars Cents	Sprays, dusts, granules, furnigants, etc., (fungic herbicide, insecticide, nematicide) to control —	938						
2 . Feed purchased for livestock and poultry — grain,	72	a. Insects on crops, including hay	937						
hay, silage, mixed feeds, concentrates, etc	1 00	c. Diseases in crops and orchards (blights, smuts, rusts, etc.)	938						
complete, supplement, concentrates, premixes.  (Do not include ingredients None Dollars Cents		d. Weeds, grass, or brush in crops and pasture Include both pre-emergence and post emergence.	939						
purchased separately, such as soybean meal, cottonseed meal, and urea.) \$ 00	1	2. Chemicals for defoliation or for growth control of crops or thinning of fruit	940						
3. Seed cost — for corn, other grains, soybeans, tobacco, cotton, etc. — Include plants and trees purchased	00	SECTION 26 MACHINERY AND EQUIPMENT on the	nis place on December 31, 1987 —						
4. Commercial fartilizer purchased — all	75 1	<sub>S26</sub> Include only equipment used for agric	uiturai operations in 1300 or 1307.						
forms, including rock phosphate and gypsum.	00	Value of ALL machinery and equipment on this place.	ca, December 31, 1987						
5 · Agricultural chemicals purchased — Insecticides, herbicides, fungicides, other pesticides, etc. — Include cost of custom applications. (Do not include lime.)		<ol> <li>What is the estimated market value of ALL mach equipment, and implements usually kept on this and used for the farm or ranch business? — Inclu</li> </ol>	place Dollars Cents						
	77	trucks, tractors, combines, plows, disks, harrows, drys pumps, motors, irrigation equipment, dairy equipment i milkers and bulk tanks, livestock feeders, grinding and i	ns, including						
	78 100	equipment, etc	[\$						
b.Diesel fuel	79 00	SELECTED machinery and equipment on this place, December 31, 1987. (Report	Total number on this place on December 31, 1987  Of the total, HOW MANY were manufactured in the last 5 years						
	80	only if used in 1985 or 1987.) None	(1983 - 1987)? 944 945						
7. Electricity for the farm business — (Do not	81	Motortrucks — Include pickups							
8. Hired farm and ranch labor — also include employer's cost	82	and motor tillers — a. Less than 40 horsepower (PTO)	948 949						
for social security, workman's compensation, insurance premiums, pension plans, etc. (See INFORMATION SHEET)	!	<b>b.</b> 40 horsepower (PTO) or more	950 951						
as narvesting of fruit, vegetables, berries, etc.,	83	5. Cotton pickers and strippers	956 957 958 959						
performed on a contract basis by a contractor, crew leader, a cooperative, atc.	00	7. Pickup balers — Include rectangle	960 961						
10. Repair and maintenance expenses for the upkeep of buildings, motor vehicles, and farm equipment	84	SECTION:27 ESTIMATED CURRENT MARKET VA	LUE OF LAND and						
11. Customwork, machine hire and rental of	1 00	527 BUILDINGS							
machinery and equipment — Include expenditures for use of equipment and for customwork such as grinding	i	Please give your best ESTIMATE of the CURRENT N VALUE of land and buildings for all acres reported in	of land and buildings						
not include cost of cotton cinning and application of	85 !	section 1, items 1, 2, and 3, page 1.	None Dollars Cents						
fertilizer and chemicals.)	96	1. All land owned	B97 I						
a.Secured by real estate	87	2. All land rented or leased FROM OTHERS	998						
b.Not secured by real estate	88 00	3. All land rented or leased TO OTHERS SECTION:28§ INCOME FROM FARM - RELATED SO							
13. Cash rent peid for land and buildings in 1987— (Do not include grazing fees.)	00	S28 Report amount received before taxes of							
machinery, livestock, etc. for the farm business. (Do not include	89	Customwork and other agricultural services prov farmers and others — plowing, planting, spraying	ided for None Dollars Cents						
taxes paid by landlords.)	00	harvesting, preparation of products for market, e	tc. 992						
15. All other production expenses — Include insurance, water, animal health costs, grazing fees, mrketing charges, miscellaneous farm supplies, etc. (Do not include depreciation,	90	SHEET, section 28)  2. Gross cash rent or share payments received from	🗆  \$   00						
household expenses, and expenses not associated with the farm business.)	00	out farmland or payments received from lease or allotments — include payments for livestock pastured	sale of 993						
SECTION 24 Was any COMMERCIAL FERTILIZER, including ROCK LIME used on this place during 1987?	PHOSPHATE, or	a per-head basis, per-month basis, per-pound basis, etc  3. Sales of forest products and Christmas trees — In	oclude -						
1 YES - Complete this section 2 NO - (	Go to section 25	maple products, naval stores, firewood, etc	····· 🖵 🛊 🕴 100						
1. Acres of cropland fertilized in 1987 — (Do not include cropland	ne Acres fertilized	and other income which is CLOSELY RELATED to the agricultural operation on this place —	995						
for pastures reported in section 10, item 2b.)  2. Acres of pastureland and rangeland fertilized in 1987	933	Specify	s 00						
reported in section 10, items 2b and 4		SECTION 29 PERSON COMPLETING THI Name	S REPORT — Please print						
3. LIME — tons of lime used and acres on which applied — (Do not include land plaster or —	Acres limed	Area Code Number							
gypsum or lime for sanitation.)		Telephone number							

FORM 87-A0209 (9-3-86)

# 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 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" complete only UNE 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, feedlor, greenhouse, etc., or combination of farms, etc., for which you maintain SEPARATE records of operating expenses and sales, livestock and other inventories, crop acreages, and production.

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

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

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

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

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

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

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

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

All dollar figures may be entered in whole dollars. CENTS ARE NOT REQUIRED.

Enter whole numbers except where tenths are requested, such as acres of potatoes harvested. If you have 1/2, 1/3, or 1/4 of an acre, convert to tenths. For example, convert 1/2 to 5/10, 1/3 to 3/10, 1/4 to 2/10.

The census report form will contain sections and questions which do not apply to you. When this occurs, mark the "None" or "No" box and go on to the next item or section.

# **Instructions For Specified Sections**

## ► Section 1 — ACREAGE IN 1987

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

When answering the acreage questions, include the land associated with your agricultural operations in 1987 whether in production or not. Include all land that you owned or rented during 1987 even if only for part of the year. Do not include any unrelated residential or commercial land.

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

Report all land in section 1 in whole acres.

 All Land Owned — Report all land owned in 1987 whether held under title, purchase contract or mortgage, homestead law, or as heir or trustee of an undivided estate. Include all land owned by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

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

#### INCLUDE in item 2:

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

#### DO NOT INCLUDE in item 2:

Land used on a per-head or animal unit license or permit basis, such as section 3 of the Taylor Grazing Act, National Forest, or Indian reservation permit land. If you had any of these permits, mark "yes" to item 7.

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

#### INCLUDE in item 3:

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

Item 4 — Acres in "THIS PLACE" — This figure will show the total of all land you operated at any time in 1987.

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

- You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. All your land was operated by a renter or sharecropper, complete item 6 (name and address of renters), skip to and complete section 29, and explain briefly, "all land rented out," etc. Mail form in return envelope.
- c. You did not have any agricultural activity on owned or rented land in 1987, complete section 29 and explain briefly, such as "retired," "sold farm," and date. Give name and address of current operator if known and return form.

### ▶ Sections 2 through 8 - CROPS

Sections 2 through 8 provide space for reporting crops harvested during the 1987 crop year from the land shown in section 1, item 4 (Acres In "THIS PLACE") of your report. Please report your crops in the appropriate sections. Do NOT include any crops grown on land rented or leased TO OTHERS, or worked by others on shares during 1987.

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

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

Acres irrigated — For each crop irrigated, report number of acres irrigated. Irrigation is defined as land watered by artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, purposeful flooding, etc. Include acres that received supplemental, partial, and/or preplant irrigation. Do not report water applied in transplanting tobacco plants, trees, or vegetables as irrigation. Leave "Acres irrigated" blank for crops that are not irrigated.

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

- ▶ Sections 2 and 3 Report only for the listed crops.
- ▶ Sections 4 through 8 To report: (1) find the crop name and the code number from the list in the section; (2) enter crop name and code in the first two columns of the first available answer line in the section; (3) enter the information that is requested in the remaining columns. If you harvested a crop not listed in sections 4 through 8, use the "Other" code in the appropriate section and specify the crop name.

**Double Cropping** — If two or more crops were harvested from the same land (double cropping) report the total acres and production of each harvested crop in the appropriate section(s) of the report form.

Example: In 1987 you harvested 1,230 bushels of wheat from 40 acres, then on the same 40 acres planted soybeans, from which you harvested 1,550 bushels. You irrigated the soybeans but not the wheat.

Section 2: Were any of the following CROPS harvested from "THIS PLACE" in 1987?											
Nor	Acres harvested	Quantity harvested	Acres irrigated								
1. Cotton	091	092 Bales	093								
2. Soybeans for beans	OBB 40	<sup>089</sup> /,550 Bu.	090 40								
3. Wheat for grain	073 40	1,230 Bu.	075								
4. Oats for grain	076	077 Bu.	078								

Interplanted Crops — If two crops were grown at the same time in alternating strips in the same field, report the portion of the field used for each crop.

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

**Skip Row Planting** — If a crop is planted in an alternating pattern of planted and non-planted rows, such as two rows planted and two rows skipped (2 X 2), report the portion of the field occupied by the crop in the appropriate section for that crop, and report the skipped portion as "Cropland idle" in section 10, item 2f.

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

Example: In 1987 you harvested 10 acres of lettuce from a field, then replanted the field in lettuce and harvested the 10 acres again. Both crops of lettuce were irrigated. Enter only 10 acres of land from which vegetables were harvested and 10 acres irrigated in item 1 of section 4, but write in 20 acres of lettuce harvested and 20 acres of lettuce irrigated in item 2 of section 4.

▶ Section 8 — FRUITS and NUTS — In counting the combined total of 20 or more trees and vines, include those for home use as well as those maintained for sale of the production. Acres in trees or vines that have been abandoned should not be included; these acres should be included in section 10, item 2f "Cropland idle."

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# ► Sections 13 through 17 —LIVESTOCK, POULTRY, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES

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

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

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

Number Sold — Report all animals and poultry sold or removed from "this place" in 1987, without regard to ownership or who shared in the receipts. Include animals sold for a landlord or given to a landlord or others in trade or in payment for goods or services. Do NOT report number sold for any livestock or poultry kept on another place.

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

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

Fat Cattle Sold — Cattle fattened on grain or concentrates for 30 days or more and sold for slaughter are reported in section 13, item 3a.

## DO NOT INCLUDE WITH FATTENED CATTLE SOLD:

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

Value of Sales — Report the total gross value of animals and poultry sold or removed from "this place" in 1987 without deducting production or marketing expenses (cost of feed, cost of livestock purchased, cost of hauling and selling, etc.). If the sale price or market value is not known, give your best estimate of their market value when they left "this place." Do NOT report the value of sales of any livestock and poultry owned by you but kept and sold from a place you did not operate.

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

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

- If you owned BEES — Report all colonies or hives of bees and Item 2 honey operations conducted by you, regardless of where the hives we 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.

#### ection 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 a partnership. a partnership.

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

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

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

#### Page 3

#### ► Section 21 - CORPORATE STRUCTURE

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

➤ Section 22 — CHARACTERISTICS AND OCCUPATION OF OPERATOR

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

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

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

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

Feed Purchased for Livestock and Poultry -Peed 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 feed 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 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.

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

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

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

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

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

Do not include:

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

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

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

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

#### **▶ Section 26 -- MACHINERY AND EQUIPMENT**

The estimated market value in item 1 refers to ALL machinery and equipment kept primarily on "this place" and used for the farm business. Report the value in its present condition, not the replacement or depreciated value. Specialized equipment, which is an integral part of a building, should be included as a part of the value of land and buildings.

# ► Section 27 -- ESTIMATED CURRENT MARKET VALUE OF LAND AND BUILDINGS

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

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

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

**Item 1 — Customwork —** Do not report income for customwork or agricultural services provided to others if operated as an entirely separate business from your agricultural operations.

Item 2 — Rental Income — Do not include rental income from nonfarm property.

Item 3 — Forest Products — Include only those forest products or Christmas trees cut from "this place," not items cut from other nonfarm timber acreage. Do not include income from saw mill husiness

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

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

DUE BY FEBRUARY 1, 1988							ОМ	18 No. 0607-0534: Approval Ex	pires September 30, 1989
FORM 87-A0400 (3-13-87)	U.S. DEPARTMENT BURE	T OF COMMERCE AU OF THE CENSUS	s THE	CENSUS for statist	sponse to this inquiry is re BUREAU IS CONFIDENTI, ical purposes. Your report	L. It may b	w (title 13, U.S. be seen only by see used for purpo	Code). By the same law sworn Census employee ses of taxation, investig	YOUR REPORT TO
	UNITED STA				ovides that copies retained ence perteining to this				(CFN)
AG CENSUS USA	OF AGRICUL			Г				87-A04 <u>00</u>	
Please complete this torm and RETURN TO	BUREAU OF THE CENSU 1201 East Tenth Street Jeffersonville, IN 4713	-	1					••	
Note — If your records are no used. If you cannot file by Febru	ot available, reasonable esti	mates may be	t i						
to the above address. Include yeas shown in your address label in  If you received more than one	our 12-character Census File	Number (CFN)	<u>'</u>						
report form, enter extra Census File Number(s) here and return extra copies with your completed report.		┼┼┼╂	1						
CENSUS 035 036		942	1		magnetic control of the magnetic party.			and the time of appropriate perspectations are selected.	
ONLY					correct errors in name, a	ldress, and	ZIP Code. ENTE	R street and number if n	ot shown.
SECTION 1.  1. At any time during 1987, did	d				SECTION 48			- "	/ I 4007
Hay or tobacco?     Corn, wheat, or other grain	<ul> <li>Fruit, nut, or citr</li> </ul>	us trees; grap			(Do not include crop	s grown on	land rented to ot	m "THIS PLACE"	Gross value of
Other crops?	Greenhouse or n				1. Hay crops	None	Acres harvested	Quantity harvested	Crops sold  Dollars Cents
2. At any time during 1987, die	Yes No				a. Alfalfa and alfa mixtures		103	104 Yons, dry	1
<ul> <li>Cattle, hogs, sheep, or go</li> </ul>	ats? • Horses or ponies	?			b. Small grain hay	_	106	107 Tons, dry	
<ul><li>Chickens or other poultry?</li><li>Bees?</li></ul>	<ul> <li>Fish in captivity</li> <li>Other animal spen</li> </ul>				c.Wild hay	-	112	113 Tons, dry	
	☐ Yes ☐ No				d. Other hay —		109	110	782
If you answered YES to El If you answered NO to BO	THER of these questions	, go to SECT	ION 2.	-	Specify kind	🗆	067	Tons, dry	\$ 100
POPOTION S	1987 Report land owne				2.Corn for grain or s	eed 🗀	088	Bu	\$ 00
your spouse, o	r by the partnership, corp	oration, or or	ganizati	ion for	3. Soybeans for bea	ns 🗆	073	Bu.	\$ 00
LOCATION OR	reporting. Include ALL LA USE — cropland, pasture	ND, REGARD land, rangela	ILESS C ind,	)F	4. Wheat for grain	□	094	8u.	\$ 00
woodland, idle	land, house lots, etc.	· L	Number	of acres	5. Tobacco — all typ	es 🗆	/10		\$ 00
1. All land owned		🗖 l	043		6. Potatoes, Irish —(include those grow				
<ol> <li>All land rented or leased FRC worked by you on shares, us services, payment of taxes, and railroad land. (DO NOT in</li> </ol>	sed rent free, in exchange fo etc. Include leased Federal, nclude land used on a per-h	or , State, lead	044		7. All vegetables for (Do not include those for home use.)	sale grown	None Total sc	· · · · · · · · · · · · · · · · · · ·	\$ 00
basis under a grazing permit  3. All land rented or leased TO O shares by others and land sub	THERS, including land worke	d on	045		Specify kind(s)			/10 /10	
4. Acres in "THIS PLACE	•		048		,	_			_
and acres rented (item 2), 1 TO OTHERS (item 3), and	then SUBTRACT acres rer	nted			8. All fruit and nut or vineyards, and be	chards,	None Total ac	res Quantity harvested /10	Dollars Cents
If the entry is zero please rei	fer to the Information Sheet	, section 2		1	Specify {			/10 3 Lbs.	4
5. Of the land you rented or lea	sed to others, how many	None oss				additional or	ana anter the ora	/10 Lbs.	liet holow
acres did you own?		<u> </u>		- Acres	9. Other crops — For Report quantity harve	sted in the u	nit specified with	crop name.	
<ol><li>In what county was the large agricultural products raised</li></ol>	or produced?	County na	me	State	Crop name	Code	Acres harvested	Quantity harvested	Gross value of crops sold  Dollars Cents
SECTIONES LAND USE an PART A — How were the		ed in 1987?		` .	·		ļ		\$ 00_
	•	None	Number	of acres				1	\$ 00
<ol> <li>Cropland harvested — Incluwere harvested or hay was cu</li> </ol>	it, and all land in orchards, cit	rus [ ]	787		If more space is needed, us Crop name	ė a separate s	Code   C	Prop name	Code
groves, vineyards, and nurser  2. Cropland on which all crop report here land in orchards and	s failed - (Exception: Do not	[	790		Barley for grain (bushels) Corn for silage or green c Cotton (bales)	nop (tons, gr	een) 070   5	Dats for grain (bushels) . Sorghum for grain-milo (b Other crops (pounds) — S	ushels) 082
3. Cropland idle, cropland use or cropland in cultivated su	ed for cover crops,		793		• PART B - NURS		REENHOUSE	CROPS GROWN FOR	RSALE
Cropland used only for pa and other pastureland an	sture, woodland pasture	ea, i	796		From the list below, e	nter the cr	op name and c	Acros in the ones	
5. All other woodland, wast reported in items 1 through	eland, houselots, etc. no	ot [	797		Crop name	Code u	nder glass or ner protection w	in 1987	Sales in 1987  Dollars Cents
• PART B - IRRIGATION			Number					/10 \$	
How many acres of harvest land from which hay was cut a fruit and nut crops	ted land were irrigated? In and land in bearing and nonb	clude earing	irriga 880	uted	If more space is needed, us Crop name Bedding plants (include v	eaetable ole	Code   C	Ported flowering plants .	Code
<ol><li>How many acres of pasture lands not included in item</li></ol>	eland, rangeland, and any 1 above were irrigated?	Ott 101	881		Cut flowers and cut floris Nursery crops — omamer and nut trees, and vines	t greens ntals, fruit	485   6	ofiage plants Greenhouse vegetables Other — Specify	707
PENALTY FOR FAILURE TO REI	PORT						CONTINUE	ON REVERSE SIDE -	<del></del>

SIGUONS LIVESTOCK and POULTRY	PART E - HORSES, OTHER LIVESTOCK, ANIMAL SPECIALTIES, and FISH							
A DADT A CATTLE and CALVED	INVENTORY		INVENTORY Number on this	Total quantity	Gross value of			
PART A — CATTLE and CALVES     None	Number on this place Dec. 31, 1987	None	place Dec. 31, 1987]	sold in 1987	Dollars	Cents		
_	803	1. Horses and ponies of all ages	830	831 Number	\$32 \$	00		
1. CATTLE and CALVES of all ages	Total 804		839	840 Number	842	•		
a. BEEF COWS — Include beef helfers that had calved.	Beaf cows	2. Colonies of bees	Y	841 Pounds honey	7.	00		
b. MILK COWS kept for production of milk or	805		843	844	848	1		
cream for sale or home use - include dry -	Milk	2 M211.	<b>\$</b> }	Number 845 Gallons	77	1 00		
milk cows and milk helfers that had calved L	cows	3. Milk goats	847	milk 848	) \$ ) 850	00		
	gross value of sales		₹⊦	Number 849 Pounds	}	} f		
2. Value of DAIRY PRODUCTS sold in 1987 - 814	Dollars Cents	4- Angora goats		mohair	1.	00		
Include milk, cream, butter, etc.	00	5. Other livestock, fish, animal products.	1		1	í		
CATTLE and CALVES SOLD		(Enter name/code from below.)	į	1	2			
FROM THIS PLACE IN 1987	ner sold Gross value of sales	NameCode		Quantit	y \$	00		
this place to a feedlot for further None in	per sold Gross value of sales 1987 Dollars Cents	Name/code Mules, burros, donkeys 833	Name/code	Nam	e/code			
feeding.	809	Mink and their pelts 836	Other goats	851 and	their products	857		
3. Calves less than 500 pounds	\$ 00		NT CCC LOANS					
4. Cattle - Include calves 500 pounds or more	. 00	Amount received in 1987 and reserve loans, even if re-	from Governme deemed or forfeits	<b>~~</b> ~—		•		
a. Of ALL cattle sold, how many were	None Dollars Cents							
FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more						00		
and SOLD for SLAUGHTER?								
PART B — HOGS and PIGS	INVENTORY		, 1007 (20 M	None		Cents		
None				68				
	815	<ol> <li>Amount received in cash</li> <li>Value of certificates received</li> </ol>		n-kind es	<del>.                                      </del>	00		
1. HOGS and PIGS of all ages	Total 515	(PIK) or commodity certif	icates		•	00		
a. HOGS and PIGS used or to be used for breeding	Breeding	Side Unit   Acres in this	place SET ASID	E, DIVERTED,	or IDLED unde	F		
	FEDERAL acreage reduction programs in 1987							
Numb	1. How many acres were set aside (or diverted) under							
1.0.0	1987 Dollars Cents	ANNUAL commodity acreage adjustment programs? L						
2. HOGS and PIGS SOLD from this place in 1987	821 8 00	2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)?						
3. Of the hogs and pigs sold, how many were	823		Company of the Compan	Manager and the contract of th	EOBERATOR	2 E E F 7 7		
sold as FEEDER PIGS for further feeding?	\$ 00			sold as FEEDER PIGS for further feeding?				
PART C - SHEEP and LAMBS     INVENTORY     Number on this     Number sold     1. RESIDE								
	An this NUMBER SOLD	1. RESIDENCE - Does the	operator live on	this 923				
Number None place Dec.	on this in 1987	place?		uns	Yes 2 N	0		
None place Dec.	on this	place?	N — At which	uns	Yes ₂□ No	0		
Number None place Dec.	on this in 1987	place?  2. PRINCIPAL OCCUPATIOn occupation did the operation did the operation did the operation of the oper	DN — At which ator spend the more) of his/her	928				
Number place Dec.	on this in 1987	place?	DN — At which ator spend the more) of his/her	928	Yes 2 No			
1. SHEEP and LAMBS of all ages	on this 31, 1987 in 1987	place?  2. PRINCIPAL OCCUPATIO occupation did the opers majority (50 percent or worktime in 1987? For plail members of the partnersh	ON — At which ator spend the more) of his/her strateships consider in together.	928	Farming 2 Of			
None None Place Dec.  1. SHEEP and LAMBS of all ages	on this 31, 1987 in 1987	place?  2. PRINCIPAL OCCUPATIC occupation did the operamajority (50 percent or reworktime in 1987; For push members of the partnersh 3. OFF-FARM WORK — Hoperator work at least 4	DN — At which ator spend the more) of his/her straesthes consider to get her.  by many days did hours per day of hours per day of	928  1   1   5	Farming 2  01 or ranching			
1. SHEEP and LAMBS of all ages	on this in 1987  31, 1987  525  628  Pounds wed!  Poss value of sales	place?  2. PRINCIPAL OCCUPATIO occupation did the operamion in 1987? For public majority (50 percent or resolved in 1987? For public members of the permersh  3. OFF-FARM WORK — Hoperator work at least 4 place in 1987? — include	DN — At which ator spend the more) of his/her strates hips consider to together.  we many days dishours per day of work at a ponferm in	928  1	Farming 2 Of or ranching None 1 — 49 days			
Number place Dec.  1. SHEEP and LAMBS of all ages	on this 31, 1987 In 1987 625 625 Pounds wool	place?  2. PRINCIPAL OCCUPATIC occupation did the operamajority (50 percent or reworktime in 1987; For push members of the partnersh 3. OFF-FARM WORK — Hoperator work at least 4	DN — At which ator spend the more) of his/her strates hips consider to together.  we many days dishours per day of work at a ponferm in	928  7 1 5  928  d the ff this lob, p not 3 5	Farming 2  01 or ranching	ther		
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None  None  None  None  None  None  1. SHEEP and LAMBS of all ages	on this 31, 1987    1987     1987	place?  2. PRINCIPAL OCCUPATIC occupation did the operamajority (50 percent or rworktime in 1987? For puell members of the pertnersh 3. OFF-FARM WORK — Hoperator work at least 4 place in 1987? —Include business, or on someone elsa include exchange farmwork.  4. In what YEAR did the op	DN — At which attor spend the more) of his/her entrerships consider in together	928  1	Farming 2 One Or ranching  None 1 —49 days 50—99 days 100—149 days 150—199 days	ther		
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Page 2

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

Item 4 — Acres in "THIS PLACE" — This figure will show the total of all land you operated at any time in 1987.

If item 4, Acres in "THIS PLACE" is "0" and:

- You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. All your land was operated by a renter or sharecropper, skip to and complete section 10, and explain briefly, "All land rented out," etc. 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 was used for more than one listed purpose in 1987, report that land only in the first category listed. For example, If you harvested a crop and later used the same land for pasture, report the land in part A, item 1, "Cropland harvested."

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

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

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

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

#### ➤ Section 4 -- CROPS

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

#### DO NOT INCLUDE:

- 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 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 consus.

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 livestock purchase, cost of hauling and selling, etc.). If the sale price or market value is not known, give your best estimate of their market value when they left "this place." Do NOT report the value of sales of any livestock and poultry owned by you but kept and sold from a place you did not operate.

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

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

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

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

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

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

#### Section 6 -- AMOUNT RECEIVED FROM GOVERNMENT CCC LOANS

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

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

#### ► Section 7 — FEDERAL PAYMENTS RECEIVED

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

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

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

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

#### Section 9 — CHARACTERISTICS AND OCCUPATION OF OPERATOR

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

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

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