

APPENDIX A.

General Explanation

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DATA COLLECTION

Method of Enumeration

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

Mail List

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

Report Forms

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

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

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

Initial Mailing

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

To provide additional help to farmers in completing their reports, copies of an Agriculture Census Guide booklet were sent to vocational agriculture instructors, USDA county offices of the Agriculture Stabilization and Conservation Service, and the Cooperative Extension Service. The Guide contained descriptions and definitions of various items in more detail than the instructions included with each report form. Representatives of the above agencies graciously consented to assist farmers in completing their report forms.

Followup Procedures

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

Telephone calls were made to all large farms who had not responded. In addition, telephone calls were made to a sample of other nonrespondents in counties that had a response rate of less than 75 percent. A nonresponse adjustment procedure was used to represent the final nonrespondent farms in the census results. A description of this procedure is included in the Census Estimation section of appendix C.

DATA PROCESSING

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

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

In the computer edit, farms with sales, acreage, or commodities exceeding specified levels were tested for historical comparability. Key items, such as acreage and sales, were compared for substantial changes between 1982 and 1987. Sizeable historical differences were resolved or verified by telephone, if necessary. Respondents who reported sales or acreage above specified levels on non-sample forms were sent correspondence requesting the additional sample data. Prior to publication, tabulated totals were reviewed by statisticians to identify inconsistencies and potential coverage problems. Comparisons were made with previous census data, estimates published by the USDA, and other available data.

MAJOR DATA CHANGES

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

- Income from farm-related sources
- Acres under the Conservation Reserve Program
- Payments received for participation in federal farm programs
- Grazing permits by source

Additional data on production expenses were added in 1987:

- Repair and maintenance expenses
- Cash rent
- Property taxes paid
- All other production expenses

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

- Storage capacity for petroleum products
- Number of hired farm and ranch workers
- Value of agricultural products sold directly to individuals for human consumption
- Source of irrigation water
- Tons of commercially mixed feed
- Expenditures for coal, wood, and coke
- Selected machinery items: automobiles, corn heads for combines, and field forage harvesters
- Chinchillas
- Worms
- Tropical and baitfish

FOLLOW-ON SURVEYS, SPECIAL CENSUSES, AND RELATED PUBLICATIONS

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

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

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

The 1988 Census of Horticultural Specialties covers operations growing and selling \$2,000 or more of horticultural products such as greenhouse products, outdoor-grown 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 non-farms 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:

Cattle and calves- - - - -farms- -	842
number- -	28,594

Land in farms—The acreage designated in the tables as “land in farms” consists primarily of agricultural land used for crops, pasture, or grazing. It also includes woodland and wasteland not actually under cultivation or used for pasture or grazing, provided it was part of the farm operator's total operations. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations. Land in farms includes acres set aside under annual commodity acreage programs as well as acres in the Conservation Reserve Program for places meeting the farm definition.

Land in farms is an operating unit concept and includes land owned and operated as well as land rented from others. Land used rent free was to be reported as land rented from others. All grazing land, except land used under government permits on a per-head basis, was included as “land in farms” provided it was part of a farm or ranch. Land under the exclusive use of a grazing association was to be reported by the grazing association and included as land in farms. All land in Indian reservations used for growing crops or grazing livestock was to be included as land in farms. Land in reservations not reported by individual Indians or non-Indians was to be reported in the name of the cooperative group that used the land. In some instances, an entire Indian reservation was reported as one farm.

Land area—The approximate land area of counties and States represents the total land area as determined by records and calculations as of January 1, 1988. These data are updated periodically; however, the acreages shown for 1987 are essentially the same as for 1982. Any differences between the land area for 1987 and 1982 are due to annexations and other changes affecting county boundaries.

Land in two or more counties—With few exceptions, the land in each farm was tabulated as being in the operator's principal county. The principal county was defined as the one where the largest value of agricultural products was raised or produced. It was usually the county containing all or the largest proportion of the land in the farm or viewed by the respondent as his/her principal county. For a limited number of Midwest and Western States, this procedure has resulted in the allocation of more land in farms to a county than the total land area of the county. To minimize this distortion, separate reports were required for large farms identified from the 1982 census as having more than one farm unit. Other reports received showing land in more than one county were separated into two or more reports if the data would substantially affect the county totals.

Value of land and buildings—Respondents were asked to report their estimate of the current market value of land and buildings owned, rented or leased from others, and rented or leased to others. Market value refers to the value the land and buildings would sell for under current market conditions. If the value of land and buildings was not reported, it was estimated using the average value of land and buildings from a similar farm in the same geographic area.

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

Cropland used only for pasture or grazing—This category includes land used only for pasture or grazing that could have been used for crops without additional improvement. Included also was all cropland used for rotation pasture and land in government diversion programs that were pastured. However, cropland that was pastured before or after crops were harvested was to be included as harvested cropland rather than cropland for pasture or grazing.

Other cropland—This category includes cropland not harvested and not grazed which was used for cover crops, soil improvement crops, land on which all crops failed, cultivated summer fallow, idle cropland, and land planted in crops that were to be harvested after the census year.

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

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

Cropland in annual commodity acreage adjustment programs—This category includes land diverted or set aside under the provisions of the Federal Commodity Acreage Program. These data are for the acres of cropland taken out of production by growers of wheat, cotton, rice, corn, sorghum, barley, and oats, and devoted to conservation uses. Information was not obtained as to which crops would have been grown on the acres set aside.

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

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

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

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

Farm production expenses—In 1987, additional specific expense items and a category for all other farm production expenses were added to the selected farm production expenses collected in 1982. Consequently, we are publishing total farm production expenses in 1987. The expenses are limited to those incurred in the operation of the farm business. Expenses include the share of the expenditures provided by landlords, contractors, and partners in the operation of the farm business. Property taxes paid by landlords are excluded. Expenditures for nonfarm activities; farm-related activities such as providing custom-work 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, per-month, 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 Manual¹, are used to promote uniformity and comparability in the presentation of statistical data collected by various agencies.

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

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

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

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

Cotton (0131)—Cotton and cottonseed.

Tobacco (0132)—Tobacco.

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX B.

Places With All Cropland in the Conservation Reserve Program

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

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

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

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

Land in Conservation Reserve Program: 1987

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

Geographic area	Agricultural places excluded by farm definition with acres in the CRP			Farms with acres in the CRP		
	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)
Texas	943	341 027	298 424	3 572	6 187 583	1 085 184
Andrews.....	3	4 269	4 238	18	65 651	14 244
Armstrong.....	4	1 327	1 273	34	69 818	12 175
Bailey.....	38	21 166	19 091	94	155 846	41 508
Bell.....	6	437	263	20	7 891	1 524
Bowie.....	5	1 354	339	4	5 901	(D)
Briscoe.....	21	6 792	6 501	53	72 296	18 701
Cameron.....	4	133	58	13	10 699	1 776
Carson.....	3	770	738	30	51 755	7 253
Castro.....	16	9 699	9 104	36	56 069	12 208
Childress.....	10	6 538	5 636	59	61 825	14 274
Cochran.....	30	16 769	15 189	61	107 887	45 027
Collingsworth.....	11	3 220	2 961	92	146 957	28 596
Cottle.....	12	3 479	2 939	31	50 222	16 479
Crosby.....	4	1 386	1 345	26	41 887	5 296
Dallam.....	20	18 561	17 439	61	185 419	34 291
Dawson.....	10	4 611	4 456	48	60 134	20 850
Deaf Smith.....	26	15 605	15 210	88	170 738	45 768
Dickens.....	21	4 666	4 063	50	52 963	13 101
Donley.....	19	3 093	2 721	54	71 325	10 223
Eastland.....	3	748	293	18	7 130	2 358
Fisher.....	8	1 234	839	47	59 956	13 626
Floyd.....	16	4 430	3 927	56	103 392	19 958
Fort Bend.....	4	117	65	8	11 131	870
Frio.....	3	672	510	16	19 427	3 775
Gaines.....	40	23 278	20 789	87	142 277	43 637
Garza.....	5	663	652	17	50 791	(D)
Gray.....	6	829	722	32	46 993	7 170
Grayson.....	4	500	392	12	8 467	1 509
Hale.....	42	11 668	9 584	130	116 933	28 625
Hall.....	30	8 141	7 326	74	79 947	23 878
Hansford.....	5	1 916	1 863	37	94 199	12 740
Hardeman.....	9	1 477	1 399	29	42 581	8 287
Harris.....	5	857	496	4	7 627	1 125
Hartley.....	10	9 179	8 151	32	129 044	23 823
Haskell.....	11	2 636	2 147	19	15 396	2 191
Hidalgo.....	5	3 557	2 075	39	34 396	8 122
Hockley.....	22	7 078	5 447	32	36 179	9 060
Howard.....	7	1 576	1 284	12	71 206	3 481
Hutchinson.....	3	666	549	6	91 558	7 176
Jasper.....	3	375	56	2	(D)	(D)
Jones.....	19	3 033	2 299	46	38 013	9 875
Kent.....	8	1 395	1 218	26	39 943	9 503
Knox.....	4	651	641	12	6 468	1 774
Lamar.....	4	597	264	20	8 982	2 077
Lamb.....	56	16 218	15 342	76	61 571	16 567
Lipscomb.....	9	3 250	3 119	70	143 213	23 640
Lubbock.....	18	4 890	4 439	38	29 790	7 233
Lynn.....	9	1 700	1 623	35	47 981	11 098

Land in Conservation Reserve Program: 1987—Con.

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

Geographic area	Agricultural places excluded by farm definition with acres in the CRP			Farms with acres in the CRP		
	Number	Land in places (acres)	Land in CRP (acres)	Number	Land in farms (acres)	Land in CRP (acres)
McLennan	3	796	801	7	4 096	324
Martin	3	1 319	1 261	24	43 416	12 749
Midland	7	1 788	2 773	4	2 945	844
Mitchell	8	2 906	2 774	33	120 543	12 065
Moore	9	4 046	3 938	31	72 854	14 989
Motley	7	1 888	1 416	41	86 493	12 558
Nolan	4	583	430	42	88 946	5 800
Nueces	3	358	303	6	5 254	976
Ochiltree	12	6 898	4 175	47	115 823	17 376
Oldham	6	2 212	2 187	22	47 929	13 057
Parmer	13	3 483	3 373	61	90 514	22 925
Pecos	3	1 066	840	8	8 926	2 161
Potter	4	1 057	903	9	31 983	1 392
Randall	9	2 123	1 979	34	62 645	10 752
Red River	11	4 100	2 484	18	15 412	6 148
Runnels	6	833	417	39	33 582	5 282
Scurry	9	1 364	1 278	43	62 733	10 122
Sherman	10	7 726	6 945	55	126 034	30 456
Stonewall	3	577	202	32	53 182	5 737
Swisher	29	8 295	7 452	104	132 194	33 791
Taylor	6	1 802	850	30	16 742	3 773
Terry	25	13 856	12 977	35	42 328	10 596
Wheeler	13	4 470	3 686	67	108 937	21 528
Wilbarger	5	336	248	12	541 755	3 377
Yoakum	33	15 401	14 731	49	73 418	19 656
Zavala	3	810	520	8	21 702	1 618
All other counties	68	14 020	10 606	807	(D)	151 764

APPENDIX C.

Statistical Methodology

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MAIL LIST MODEL

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

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

CENSUS SAMPLE DESIGN

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

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

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

CENSUS ESTIMATION

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

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

Whole Farm Nonresponse Estimation

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

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

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

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

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

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

Item	Percent of total
Farms -----number--	13.6
Land in farms -----acres--	6.1
Value of land and buildings -----\$1,000--	8.6
Market value of agricultural products sold --\$1,000--	3.8
Harvested cropland -----acres--	8.9
Corn for grain or seed-----acres--	5.8
Wheat for grain-----acres--	8.6
Livestock and poultry inventory:	
Cattle and calves -----number--	7.1
Hogs and pigs-----number--	7.0
Hens and pullets of laying age -----number--	.6

Sample Estimation

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

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

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

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

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

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

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

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

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

CENSUS SAMPLING ERROR

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

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

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

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

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

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

Farms	Relative standard error of estimate (percent)
Number of farms reporting:	
25 -----	7.6
50 -----	5.5
75 -----	4.5
100 -----	4.0
150 -----	3.4
200 -----	3.0
300 -----	2.6
500 -----	2.2
750 -----	2.0
1,000 -----	1.9
1,500 -----	1.7
2,000 -----	1.7

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 -----	23.6
50 -----	17.3
75 -----	14.7
100 -----	13.1
150 -----	11.4
200 -----	10.4
300 -----	9.4
500 -----	8.4
750 -----	7.9
1,000 -----	7.6
1,500 -----	7.3
2,000 -----	7.2

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 mailing. 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 non-farm. A farm status determination was made based on the evaluation questionnaire and compared with the status based on the data reported on the census form. Differences in status were reconciled.

In past censuses, the proportion of farms undercounted due to classification errors was higher for farms with small values of sales. The classification error rate was higher for (1) livestock farms than crop farms, (2) farms with a small

number of acres than larger farms, or (3) tenant farms than full or part-owner farms. Results from the 1987 classification error study will be published in the Coverage Evaluation report.

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

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

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

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

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

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

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

After the initial computer edit, keyed reports not meeting the census farm definition were reviewed to ensure that

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

Tables D through G follow.

Table D. Reliability Estimates of State Totals: 1987

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

Item	All farms		Farms with sales of \$10,000 or more	
	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)
Farms.....number.....	188 788	(Z)	68 792	(Z)
Land in farms.....acres.....	130 502 792	.1	110 509 092	(Z)
Average size of farm.....acres.....	691	.1	1 606	.1
Value of land and buildings ¹\$1,000.....	70 745 639	.5	50 779 037	.5
Average per farm.....dollars.....	374 742	.5	739 615	.5
Average per acre.....dollars.....	544	.9	461	1.4
Estimated market value of all machinery and equipment ¹\$1,000.....	5 702 706	.5	4 074 836	.6
Average per farm.....dollars.....	30 351	.6	59 468	.7
Farms by size:				
1 to 9 acres.....farms.....	12 770	.3	1 935	.9
.....acres.....	45 106	.4	4 372	1.1
10 to 49 acres.....farms.....	37 063	.2	2 386	.8
.....acres.....	994 020	.2	64 707	.9
50 to 179 acres.....farms.....	57 666	.1	9 515	.4
.....acres.....	5 954 394	.2	1 129 374	.4
180 to 499 acres.....farms.....	39 143	.2	19 057	.3
.....acres.....	11 760 750	.2	6 126 565	.3
500 to 999 acres.....farms.....	19 327	.3	15 128	.3
.....acres.....	13 593 606	.3	10 805 154	.3
1,000 to 1,999 acres.....farms.....	12 629	.3	11 261	.3
.....acres.....	17 337 360	.3	15 532 890	.3
2,000 acres or more.....farms.....	10 190	.2	9 510	.2
.....acres.....	80 817 556	.1	76 846 030	.1
Total cropland.....farms.....	147 174	.1	58 770	.1
.....acres.....	35 610 951	.1	28 721 424	.1
Harvested cropland.....farms.....	110 358	.1	52 599	.1
.....acres.....	16 521 315	.1	15 011 557	.1
Acres harvested:				
1 to 9 acres.....farms.....	16 609	.3	1 548	.8
.....acres.....	81 847	.3	6 762	1.1
10 to 49 acres.....farms.....	47 295	.2	12 364	.3
.....acres.....	1 086 788	.2	340 255	.3
50 to 99 acres.....farms.....	14 607	.3	8 830	.4
.....acres.....	981 326	.3	604 796	.4
100 to 199 acres.....farms.....	10 642	.4	9 019	.4
.....acres.....	1 447 172	.4	1 240 465	.4
200 to 499 acres.....farms.....	11 964	.3	11 615	.3
.....acres.....	3 793 890	.3	3 702 858	.3
500 to 999 acres.....farms.....	6 508	.4	6 493	.4
.....acres.....	4 475 822	.4	4 466 732	.4
1,000 acres or more.....farms.....	2 733	-	2 730	-
.....acres.....	4 654 370	-	4 649 689	-
Cropland used only for pasture or grazing.....farms.....	83 331	.1	28 667	.2
.....acres.....	10 180 988	.2	5 942 465	.3
Other cropland.....farms.....	42 381	.2	25 864	.2
.....acres.....	8 908 648	.2	7 767 402	.2
Irrigated land.....farms.....	19 806	.2	13 654	.2
.....acres.....	4 271 043	.2	4 174 140	.2
Acres irrigated:				
1 to 9 acres.....farms.....	4 666	.5	1 006	.9
.....acres.....	16 210	.7	3 230	1.4
10 to 49 acres.....farms.....	3 967	.7	1 863	.9
.....acres.....	90 984	.8	49 593	1.1
50 to 99 acres.....farms.....	1 862	1.0	1 594	1.1
.....acres.....	130 770	1.0	113 123	1.1
100 to 199 acres.....farms.....	2 679	.8	2 597	.8
.....acres.....	378 175	.8	367 849	.8
200 to 499 acres.....farms.....	4 139	.5	4 109	.5
.....acres.....	1 329 417	.5	1 321 599	.5
500 to 999 acres.....farms.....	1 879	.4	1 874	.4
.....acres.....	1 261 954	.4	1 259 124	.4
1,000 acres or more.....farms.....	614	.2	611	.1
.....acres.....	1 063 533	.1	1 059 622	.1
Market value of agricultural products sold.....\$1,000.....	10 548 907	(Z)	10 163 892	(Z)
Average per farm.....dollars.....	55 877	.1	147 748	.1
Value of sales:				
Less than \$2,500.....farms.....	58 693	.1	-	-
.....\$1,000.....	59 727	.2	-	-
\$2,500 to \$4,999.....farms.....	31 227	.2	-	-
.....\$1,000.....	112 120	.2	-	-
\$5,000 to \$9,999.....farms.....	30 076	.2	-	-
.....\$1,000.....	213 167	.2	-	-
\$10,000 to \$24,999.....farms.....	28 350	.2	28 350	.2
.....\$1,000.....	443 919	.2	443 919	.2
\$25,000 to \$49,999.....farms.....	13 467	.3	13 467	.3
.....\$1,000.....	474 507	.3	474 507	.3
\$50,000 to \$99,999.....farms.....	10 598	.4	10 598	.4
.....\$1,000.....	753 158	.4	753 158	.4
\$100,000 or more.....farms.....	16 377	.2	16 377	.2
.....\$1,000.....	8 492 308	(Z)	8 492 308	(Z)
Sales by commodity or commodity group:				
Crops, including nursery and greenhouse crops.....farms.....	61 507	.1	37 598	.1
.....\$1,000.....	2 962 663	.1	2 903 283	.1
Grains.....\$1,000.....	927 163	.2	908 278	.2
Corn for grain.....\$1,000.....	246 907	.3	244 273	.3
Wheat.....\$1,000.....	232 108	.2	223 031	.2
Soybeans.....\$1,000.....	22 056	.8	21 785	.8
Sorghum for grain.....\$1,000.....	271 552	.2	265 881	.2
Barley.....\$1,000.....	776	2.8	760	2.8
Oats.....\$1,000.....	9 636	1.2	8 545	1.3
Other grains.....\$1,000.....	144 127	.5	144 002	.5

See footnotes at end of table.

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

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

Item	All farms		Farms with sales of \$10,000 or more	
	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.. 1 192 328	.2	1 185 988	.2
Tobacco	\$1,000.. -	-	-	-
Hay, silage, and field seeds	\$1,000.. 110 642	.5	88 775	.6
Vegetables, sweet corn, and melons	\$1,000.. 263 481	.3	260 158	.3
Fruits, nuts, and berries	\$1,000.. 61 319	.7	57 609	.7
Nursery and greenhouse crops	\$1,000.. 239 235	-	237 193	-
Other crops	\$1,000.. 168 495	.4	167 285	.4
Livestock, poultry, and their products				
farms	150 729	.1	54 802	.1
\$1,000..	7 586 244	(Z)	7 260 609	(Z)
Poultry and poultry products	\$1,000.. 669 165	.1	668 039	.1
Dairy products	\$1,000.. 545 163	.2	544 920	.2
Cattle and calves	\$1,000.. 6 039 565	(Z)	5 741 784	(Z)
Hogs and pigs	\$1,000.. 93 867	.5	87 397	.5
Sheep, lambs, and wool	\$1,000.. 129 147	.2	123 718	.2
Other livestock and livestock products (see text)	\$1,000.. 109 337	.5	94 752	.5
Farms by standard industrial classification:				
Cash grains (011)	farms.. 11 767	.3	7 608	.4
acres..	9 541 694	.3	8 780 159	.3
Field crops, except cash grains (013)	farms.. 21 065	.2	12 975	.3
acres..	12 936 518	.2	11 958 471	.2
Vegetables and melons (016)	farms.. 1 896	.9	1 026	1.2
acres..	477 351	.8	441 404	.9
Fruits and tree nuts (017)	farms.. 3 983	.6	558	1.7
acres..	382 745	1.2	167 436	2.0
Horticultural specialties (018)	farms.. 1 352	-	861	-
acres..	135 454	-	119 827	-
General farms, primarily crop (019)	farms.. 4 385	.6	1 730	.9
acres..	2 393 357	.6	2 066 363	.6
Livestock, except dairy, poultry, and animal specialties (021)	farms.. 129 600	.1	39 565	.1
acres..	100 382 685	.1	85 251 143	.1
Dairy farms (024)	farms.. 2 402	.5	2 326	.5
acres..	1 079 446	.4	1 075 250	.4
Poultry and eggs (025)	farms.. 1 817	.7	1 172	.5
acres..	315 507	.8	273 353	.6
Animal specialties (027)	farms.. 8 703	.4	885	1.5
acres..	1 111 825	.9	274 266	1.9
General farms, primarily livestock and animal specialties (029)	farms.. 1 818	1.0	88	4.2
acres..	1 746 210	.7	101 360	2.3
Farms by type of organization:				
Individual or family (sole proprietorship)	farms.. 167 602	(Z)	56 402	.1
acres..	86 855 734	.1	69 895 688	.1
Partnership	farms.. 15 946	.3	8 618	.4
acres..	27 416 422	.1	25 248 439	.1
Corporation	farms.. 3 945	.6	3 183	.6
acres..	13 206 926	.1	12 829 556	.1
Other—cooperative, estate or trust, institutional, etc.	farms.. 1 295	1.1	589	1.5
acres..	3 023 710	.3	2 537 409	.4
Tenure of operator:				
Full owners	farms.. 115 607	.1	27 852	.2
acres..	43 474 922	.1	31 358 784	.1
Part owners	farms.. 50 780	.1	28 980	.2
acres..	62 567 616	.1	57 208 021	.1
Tenants	farms.. 22 401	.3	11 960	.3
acres..	24 460 254	.2	21 942 287	.2
Operators by principal occupation:				
Farming	farms.. 83 684	.1	47 093	.1
acres..	96 947 690	.1	89 022 728	.1
Other	farms.. 105 104	.1	21 699	.2
acres..	33 555 102	.1	21 486 364	.2
Operators by sex:				
Male	farms.. 173 945	(Z)	64 976	.1
acres..	121 425 871	.1	103 514 106	.1
Female	farms.. 14 843	.3	3 816	.6
acres..	9 076 921	.3	6 994 986	.3
Average age of operator	years.. 54.4	.1	53.7	.1
Cropland under federal acreage reduction programs:				
Annual commodity acreage adjustment programs	farms.. 26 216	.2	22 378	.2
acres..	3 682 653	.2	3 591 759	.2
Conservation reserve program	farms.. 3 572	.7	2 464	.7
acres..	1 085 184	.8	847 898	.8
Government payments:				
Amount received in cash	\$1,000.. 361 108	.2	349 006	.2
Value of certificates received	\$1,000.. 316 606	.2	300 737	.2
Net cash return from agricultural sales ¹ :				
Net cash return from agricultural sales for the farm unit (see text)	farms.. 188 785	.1	68 656	.1
\$1,000..	1 552 158	.8	1 767 279	.7
Average per farm	dollars.. 8 222	.8	25 741	.8
Farms with net gains ²	number.. 91 967	.1	49 165	.2
\$1,000..	2 135 906	.4	2 053 000	.4
Farms with net losses	number.. 96 818	.1	19 491	.3
\$1,000..	583 748	.9	285 721	1.3
Total farm production expenses ¹				
farms..	188 785	.1	68 656	.1
\$1,000..	8 911 631	.2	8 308 139	.2
Livestock and poultry purchased	farms.. 60 680	.8	29 450	.9
\$1,000..	3 134 939	.2	3 073 935	.2
Feed for livestock and poultry	farms.. 127 229	.4	48 482	.5
\$1,000..	1 565 112	.3	1 489 582	.3
Seeds, bulbs, plants, and trees	farms.. 67 565	.6	38 920	.7
\$1,000..	160 986	.6	152 269	.6
Commercial fertilizer	farms.. 98 115	.5	45 016	.6
\$1,000..	339 641	.6	301 036	.6

See footnotes at end of table.

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

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

Item	All farms		Farms with sales of \$10,000 or more	
	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)
Total farm production expenses—Con.				
Agricultural chemicals-----farms--	81 560	.6	41 701	.6
\$1,000--	246 176	.7	228 794	.7
Petroleum products-----farms--	173 983	.2	67 008	.2
\$1,000--	416 266	.4	361 513	.5
Electricity-----farms--	109 679	.5	50 165	.5
\$1,000--	130 998	.6	114 393	.7
Hired farm labor-----farms--	60 462	.7	37 051	.8
\$1,000--	630 271	.4	613 841	.4
Contract labor-----farms--	43 667	.9	25 616	1.1
\$1,000--	143 120	.9	128 432	.9
Repair and maintenance-----farms--	147 133	.3	61 635	.3
\$1,000--	405 608	.5	337 419	.5
Customwork, machine hire, and rental of machinery and equipment-----farms--	61 794	.8	31 405	.9
\$1,000--	176 186	1.0	155 070	1.2
Interest-----farms--	78 009	.6	39 917	.7
\$1,000--	486 757	.6	407 658	.6
Cash rent-----farms--	44 776	.9	27 389	1.0
\$1,000--	267 635	.9	250 226	.9
Property taxes-----farms--	170 680	.2	60 714	.3
\$1,000--	170 268	.7	110 989	.9
All other farm production expenses-----farms--	165 048	.2	68 597	.1
\$1,000--	637 669	.4	582 981	.4
Livestock and poultry:				
Cattle and calves inventory-----farms--	142 244	.1	50 630	.1
number--	13 020 910	.1	10 858 400	.1
Beef cows-----farms--	123 291	.1	42 281	.1
number--	5 138 558	.1	3 913 907	.1
Milk cows-----farms--	5 899	.4	3 293	.5
number--	356 538	.2	349 750	.2
Cattle and calves sold-----farms--	139 727	.1	52 166	.1
number--	12 120 310	.1	11 161 735	.1
Hogs and pigs inventory-----farms--	7 717	.5	2 679	.7
number--	527 942	.6	459 775	.6
Hogs and pigs sold-----farms--	6 190	.5	2 463	.8
number--	923 228	.6	838 076	.6
Sheep and lambs inventory-----farms--	7 821	.4	3 678	.5
number--	2 054 963	.2	1 896 476	.2
Sheep and lambs sold-----farms--	7 093	.4	3 625	.5
number--	1 661 353	.2	1 579 071	.2
Hens and pullets of laying age inventory-----farms--	13 029	.3	2 751	.7
number--	16 104 824	.2	15 879 687	.2
Broilers and other meat-type chickens sold-----farms--	1 023	.8	797	.6
number--	226 038 116	.1	226 013 445	.1
Horses and ponies inventory-----farms--	49 393	.2	17 783	.2
number--	281 138	.3	130 425	.4
Selected crops harvested:				
Corn for grain or seed-----farms--	9 131	.4	6 549	.4
acres--	1 227 335	.3	1 188 717	.3
bushels--	123 806 676	.3	121 996 513	.3
Sorghum for grain or seed-----farms--	15 935	.3	13 143	.3
acres--	2 665 237	.2	2 568 268	.2
bushels--	155 573 425	.2	151 718 365	.2
Wheat for grain-----farms--	19 386	.2	15 068	.2
acres--	3 649 104	.2	3 438 599	.2
bushels--	98 226 965	.2	94 057 869	.2
Rice-----farms--	1 212	.8	1 193	.8
acres--	299 388	.6	298 876	.6
cwt--	16 345 153	.6	16 327 890	.6
Cotton-----farms--	16 557	.2	14 876	.2
acres--	4 349 755	.2	4 302 442	.2
bales--	4 071 552	.2	4 046 175	.2
Soybeans for beans-----farms--	1 118	1.0	1 014	1.0
acres--	172 361	1.0	168 488	1.0
bushels--	4 235 367	.8	4 173 730	.9
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)-----farms--	76 357	.1	31 522	.2
acres--	3 252 216	.2	2 240 719	.2
tons, dry--	6 684 785	.2	4 964 011	.3

¹Data are based on a sample of farms.

²Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains.

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

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

Item	All farms		Farms with sales of \$10,000 or more	
	Percent change	Standard error of estimate (percent)	Percent change	Standard error of estimate (percent)
Farms..... number..	2.0	.1	7.9	.1
Land in farms..... acres..	-6	.1	.4	.1
Value of land and buildings ¹ : Average per farm..... dollars..	-3.0	.7	-9.8	.7
Total cropland..... farms..	.9	.1	6.0	.1
Harvested cropland..... acres..	-2.7	.1	-1.5	.1
..... farms..	(Z)	.1	3.7	.1
..... acres..	-20.4	.1	-21.1	.1
Irrigated land..... farms..	.2	.3	-1.1	.2
..... acres..	-23.4	.2	-23.4	.2
Market value of agricultural products sold..... farms..	2.0	.1	7.9	.1
..... \$1,000..	18.0	(Z)	19.4	(Z)
Crops, including nursery and greenhouse crops..... farms..	-4.8	.2	-3.8	.2
..... \$1,000..	-2.1	.1	-1.5	.1
Livestock, poultry, and their products..... farms..	2.1	.1	13.5	.1
..... \$1,000..	28.3	(Z)	30.5	(Z)
Poultry and poultry products..... farms..	-16.4	.4	-7.5	.6
..... \$1,000..	48.3	.1	48.9	.1
Selected farm production expenses ¹ : Livestock and poultry purchased..... farms..	-2.9	1.1	22.1	1.8
..... \$1,000..	33.1	.5	36.7	.5
Feed for livestock and poultry..... farms..	-4.7	.5	12.8	.9
..... \$1,000..	.2	.5	2.4	.5
Seeds, bulbs, plants, and trees..... farms..	1.9	1.0	3.0	1.0
..... \$1,000..	-2.2	1.0	-1.4	1.1
Commercial fertilizer ² farms..	6.8	.8	12.9	1.0
..... \$1,000..	-7.7	.9	-7.3	1.0
Agricultural chemicals ² farms..	51.4	1.5	29.1	1.4
..... \$1,000..	18.0	1.3	15.3	1.3
Hired farm labor..... farms..	-4.2	1.0	4.3	1.2
..... \$1,000..	31.2	1.0	35.9	1.0
Interest ³ farms..	8.9	1.0	7.0	1.2
..... \$1,000..	-20.0	.8	-23.0	.8
Livestock and poultry inventory: Cattle and calves..... farms..	-9	.1	12.6	.2
..... number..	3.2	.1	9.4	.1
Hogs and pigs..... farms..	-18.6	.4	-7.6	.7
..... number..	-5.7	.6	.3	.6
Hens and pullets of laying age..... farms..	-21.8	.3	-13.0	.6
..... number..	25.6	.3	28.0	.3
Selected crops harvested: Corn for grain or seed..... farms..	-7	.4	16.0	.5
..... acres..	11.8	.4	13.5	.4
Sorghum for grain or seed..... farms..	-21.7	.2	-19.8	.2
..... acres..	-44.6	.1	-44.7	.1
Wheat for grain..... farms..	-14.4	.2	-12.4	.2
..... acres..	-28.3	.2	-28.5	.2
Soybeans for beans..... farms..	-65.5	.4	-66.1	.4
..... acres..	-76.1	.2	-76.0	.2
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)..... farms..	7.1	.2	18.3	.2
..... acres..	14.1	.2	19.3	.3
Vegetables harvested for sale (see text)..... farms..	-5.7	.6	7.9	.9
..... acres..	-4.3	.4	-1.8	.4
Land in orchards..... farms..	12.9	.5	9.8	.8
..... acres..	-10.4	.6	-13.4	.7

¹Data are based on a sample of farms.

²Data for 1987 include cost of custom applications.

³Data for 1982 do not include imputation for item nonresponse.

Table F. Reliability Estimates of County Totals: 1987

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

Geographic area	Farms		Land in farms		Average value of land and buildings per farm ¹		Estimated market value of all machinery and equipment ¹		Harvested cropland		Irrigated land	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)
Anderson	1 598	.3	350 886	1.4	184 325	3.9	31 436	6.4	38 952	1.5	521	10.9
Andrews	147	1.1	929 052	.3	950 250	3.4	5 467	8.6	43 366	2.4	5 228	8.2
Angelina	747	.5	103 622	2.1	163 328	6.1	13 027	9.6	8 389	2.7	245	5.8
Aransas	54	1.3	22 877	4.2	436 037	(Z)	1 171	(Z)	(D)		-	-
Archer	486	.5	560 742	.8	411 891	4.7	21 506	6.8	50 055	2.1	278	2.5
Armstrong	222	.7	482 017	.6	594 676	4.1	11 918	6.0	81 576	1.3	7 803	2.7
Atascosa	1 341	.3	743 424	.9	411 711	6.2	40 489	5.8	64 325	1.6	27 194	1.3
Austin	1 865	.2	347 215	.8	304 258	5.2	35 720	5.8	47 928	1.3	3 026	5.8
Bailey	443	.6	432 697	1.0	309 278	5.3	27 018	3.8	136 346	1.3	64 975	1.6
Bandera	540	.4	334 867	1.2	604 509	6.9	6 922	9.4	6 690	2.9	456	7.0
Bastrop	1 655	.3	410 344	1.3	344 717	4.0	31 122	5.4	33 202	2.0	3 280	3.8
Baylor	295	.6	355 540	.8	417 618	10.5	12 687	7.0	79 137	1.2	1 711	11.9
Bee	743	.4	481 240	1.3	444 315	3.7	20 818	8.8	79 250	1.6	2 433	8.5
Bell	1 655	.3	422 998	1.0	257 147	4.4	36 055	5.5	122 892	1.3	1 063	9.4
Bexar	1 950	.3	477 160	1.1	367 350	5.4	36 395	5.1	67 968	1.8	12 159	2.8
Blanco	549	.3	379 118	.9	670 198	4.8	7 851	7.6	6 755	2.4	263	7.1
Borden	128	.9	593 971	.5	889 767	3.2	7 596	7.2	28 020	2.6	(D)	(D)
Bosque	968	.3	569 369	.7	544 961	3.0	21 844	8.0	56 749	1.5	1 536	4.9
Bowie	1 129	.3	251 091	1.1	171 016	3.9	23 133	5.5	50 972	2.2	2 779	12.1
Brazoria	1 498	.4	537 077	1.0	397 260	4.9	38 276	4.1	79 257	1.3	33 271	1.7
Brazos	971	.4	271 421	1.4	339 454	5.0	24 552	8.2	42 075	.9	8 675	.7
Brewster	118	1.0	2 377 767	.1	3 568 847	2.4	4 941	2.8	339	1.2	17	18.2
Briscoe	224	.9	403 824	1.0	466 686	5.7	12 806	6.6	64 764	1.7	28 177	3.5
Brooks	330	.9	528 903	.7	606 918	2.0	5 665	11.9	12 041	7.0	2 623	27.3
Brown	1 144	.3	547 165	.9	281 939	8.0	23 810	7.2	44 914	2.5	4 580	3.9
Burleson	1 360	.3	314 756	1.5	232 265	6.0	29 138	5.9	40 551	2.0	5 988	2.0
Burnet	889	.3	509 782	1.1	543 568	3.8	14 888	7.7	12 728	2.9	500	5.6
Caldwell	1 026	.3	265 788	1.0	330 585	7.5	19 558	7.0	33 008	2.2	831	8.1
Calhoun	277	.8	188 899	1.5	443 910	3.9	11 289	12.8	41 718	2.0	6 255	8.5
Callahan	802	.4	495 955	1.4	204 842	4.0	14 801	8.6	43 382	2.5	808	5.9
Cameron	1 002	.5	389 370	.7	444 342	4.7	49 937	4.6	185 223	.8	122 874	.9
Camp	413	.5	78 326	2.2	199 790	8.0	10 950	9.0	14 639	1.8	(D)	(D)
Carson	335	.8	650 002	.8	552 147	8.3	26 140	9.0	154 361	1.4	63 640	1.9
Cass	885	.4	190 634	1.5	149 510	5.6	15 370	9.0	23 669	1.7	84	22.4
Castro	573	.5	521 739	.7	487 159	7.1	60 008	3.4	213 925	.7	180 156	.8
Chambers	337	.7	306 606	1.5	664 179	5.4	18 971	21.8	34 270	1.4	24 748	1.5
Cherokee	1 463	.3	284 490	1.5	193 237	5.3	32 171	5.3	35 697	1.6	434	5.9
Childress	262	.8	406 502	1.2	359 620	10.5	15 387	15.1	66 295	1.5	6 000	2.9
Clay	836	.4	569 541	.8	277 397	5.6	25 153	8.2	58 091	1.4	662	4.7
Cochran	252	.9	330 711	1.1	372 579	5.0	20 058	9.4	121 506	1.3	39 712	2.2
Coke	344	.5	505 736	.8	440 756	3.3	5 772	11.1	9 768	4.9	794	16.4
Coleman	784	.4	702 467	.8	398 474	4.8	24 173	15.4	77 144	1.9	856	13.7
Collin	1 501	.4	305 235	1.7	420 757	6.4	34 805	5.9	107 235	1.8	299	8.1
Collingsworth	365	.7	454 535	1.2	270 189	4.3	14 105	7.2	78 250	2.1	6 423	4.2
Colorado	1 589	.2	559 698	.7	388 040	5.0	42 132	7.0	71 956	1.1	33 442	1.7
Comal	652	.4	223 866	2.2	522 768	6.3	8 606	7.8	11 614	3.1	168	10.8
Comanche	1 335	.3	505 542	.8	270 022	6.2	49 295	6.9	88 918	1.0	24 532	1.8
Concho	367	.7	655 499	.8	757 926	4.6	15 635	9.1	80 432	2.1	2 396	7.6
Cooke	1 289	.4	515 267	1.2	257 913	9.3	40 145	9.1	89 229	1.8	1 494	8.9
Coryell	1 009	.4	609 091	.8	287 797	4.4	24 534	8.7	50 574	1.9	453	18.2
Cottle	222	.9	499 983	.8	425 396	4.7	12 452	18.9	64 113	1.8	350	8.7
Crane	42	1.8	336 758	.4	913 000	(Z)	1 022	(Z)	285	25.5	(D)	(D)
Crockett	163	.8	1 854 660	.2	1 781 853	2.6	5 389	2.3	(D)	(D)	900	8.2
Crosby	380	.7	464 927	.8	458 221	7.0	30 852	5.3	188 703	1.0	83 935	1.6
Culberson	74	1.5	1 606 076	.1	4 175 527	(Z)	3 565	(Z)	5 951	7.7	(D)	(D)
Dallam	397	.6	786 393	.5	595 432	10.7	38 177	3.6	203 239	.8	134 700	.9
Dallas	927	.5	147 155	2.2	415 872	10.5	17 022	8.2	29 157	3.0	1 915	18.1
Dawson	527	.6	595 182	1.0	418 066	4.5	35 404	7.0	225 620	1.2	18 825	5.4
Deaf Smith	687	.5	851 850	.6	471 612	6.3	58 254	3.8	260 624	.7	152 357	.9
Delta	421	.5	142 463	1.7	229 632	5.4	10 375	10.0	34 993	2.4	(D)	(D)
Denton	1 469	.3	390 568	1.2	410 568	5.7	36 686	6.0	89 052	1.6	1 409	12.1
De Witt	1 626	.2	582 107	.9	289 804	4.6	30 661	6.9	38 512	2.3	607	10.4
Dickens	285	.9	439 124	1.0	436 432	3.3	10 024	9.8	44 588	2.8	3 048	9.3
Dimmit	249	.8	695 478	.6	1 318 040	4.2	7 215	12.5	13 456	2.9	11 389	6.0
Donley	343	.7	588 433	.7	369 971	1.7	12 829	10.4	32 035	2.5	3 936	4.3
Duval	1 151	.4	996 776	.7	372 089	3.2	23 417	9.1	62 299	1.4	2 881	1.3
Eastland	1 085	.4	433 691	1.1	238 579	5.0	26 267	10.2	49 088	1.8	11 655	2.5
Ector	223	1.0	589 050	.5	301 417	1.2	3 306	8.2	(D)	(D)	1 948	4.1
Edwards	237	.6	1 032 782	.3	1 188 536	5.0	4 780	4.8	1 123	3.8	614	17.1
Ellis	1 612	.3	392 585	1.3	295 989	4.1	38 965	5.4	128 300	1.4	412	9.7
El Paso	422	.7	236 667	.5	708 152	2.2	18 872	7.1	39 672	1.0	40 662	.9
Erath	1 599	.3	562 030	1.0	264 094	4.8	45 777	3.6	57 110	1.7	10 333	6.5
Falls	1 086	.4	413 886	.7	280 589	5.1	34 236	5.7	101 585	1.6	3 163	4.9
Fannin	1 533	.3	442 247	1.0	209 365	4.5	35 638	5.2	122 222	1.3	2 988	4.5
Fayette	2 750	.2	530 328	.8	262 945	5.9	51 814	8.6	62 867	1.0	2 669	11.5

See footnotes at end of table.

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

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

Geographic area	Farms		Land in farms		Average value of land and buildings per farm ¹		Estimated market value of all machinery and equipment ¹		Harvested cropland		Irrigated land	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)
Fisher	629	.6	504 096	1.2	307 468	11.1	26 712	6.0	104 311	1.5	2 113	8.9
Floyd	523	.6	607 773	.8	437 296	5.9	46 577	8.3	246 634	.9	144 503	1.0
Foard	231	1.0	397 398	1.0	390 696	2.6	9 421	18.4	72 431	2.0	1 858	4.1
Fort Bend	1 233	.4	363 823	1.3	540 777	4.0	35 131	6.3	91 512	1.4	13 291	3.2
Franklin	479	.4	118 725	1.3	219 342	6.0	13 597	8.3	15 871	2.1	52	16.8
Freestone	1 178	.4	405 010	1.3	276 078	4.6	21 269	6.8	27 139	1.6	171	11.2
Frio	523	.6	638 480	.9	608 805	5.1	26 648	6.3	68 939	.9	45 798	1.2
Gaines	627	.5	674 419	.9	421 556	7.1	53 767	4.3	287 568	.9	159 642	1.0
Galveston	471	.6	98 924	3.2	186 316	2.5	9 464	8.1	10 264	3.3	4 713	4.9
Garza	236	.9	548 251	.7	502 051	3.2	12 049	5.9	41 326	2.3	1 643	6.5
Gillespie	1 367	.3	662 195	.8	579 184	3.9	26 320	5.9	32 866	1.8	1 882	6.3
Glasscock	199	1.0	529 304	.7	967 899	8.1	16 742	7.7	63 954	1.8	27 588	2.5
Goliad	747	.3	491 949	.8	406 647	5.0	13 419	7.4	24 917	1.3	1 004	2.5
Gonzales	1 712	.2	615 743	.8	343 765	7.5	38 871	4.4	43 359	1.5	3 132	5.6
Gray	323	.8	504 506	1.0	406 065	4.8	20 297	10.4	77 615	1.7	17 443	3.2
Grayson	1 900	.3	414 435	.9	275 529	4.9	43 023	5.5	113 049	1.2	2 210	4.5
Gregg	351	.7	54 046	2.9	229 618	2.9	5 783	13.0	6 162	3.0	122	26.5
Grimes	1 360	.4	363 160	1.1	328 807	3.7	29 128	7.3	30 787	1.9	511	4.9
Guadalupe	1 770	.3	331 240	1.0	301 155	6.8	37 682	7.1	77 076	1.6	1 421	7.8
Hale	818	.5	582 208	.7	396 678	3.8	79 318	5.0	280 454	.7	240 956	.7
Hall	296	1.0	393 949	1.6	267 627	3.9	14 411	12.4	78 598	2.2	5 393	6.2
Hamilton	919	.3	415 885	.9	357 469	10.5	25 888	8.3	48 555	1.6	1 089	9.1
Hansford	343	.7	575 744	.9	564 726	8.0	32 677	3.7	169 195	1.1	116 070	1.2
Hardeman	310	1.0	330 751	1.7	351 300	6.6	18 969	11.6	107 794	2.0	4 917	6.7
Hardin	337	.7	63 879	3.9	159 352	5.0	5 945	13.6	3 870	4.8	544	26.9
Harris	1 936	.3	374 759	1.5	357 943	9.1	42 176	6.4	51 586	2.4	13 630	2.1
Harrison	1 043	.4	193 932	1.6	199 065	7.4	21 036	7.2	21 268	2.3	401	7.6
Hartley	246	.7	956 997	.3	982 638	2.0	25 062	5.4	115 245	1.0	80 942	1.3
Haskell	619	.6	453 977	1.3	312 359	6.0	35 216	6.7	179 421	1.4	14 328	6.0
Hays	701	.4	297 443	1.4	622 041	5.6	10 161	6.9	17 127	3.4	1 119	12.4
Hemphill	228	.7	615 426	.6	532 590	3.0	12 298	9.7	33 748	2.7	3 458	5.3
Henderson	1 577	.3	333 190	1.2	210 239	2.4	33 529	5.7	49 050	1.8	1 177	13.0
Hidalgo	1 929	.3	762 442	.8	505 429	6.3	86 220	2.5	333 930	.4	231 214	.5
Hill	1 501	.3	441 837	1.0	237 147	5.1	45 384	5.9	166 983	1.3	496	11.8
Hockley	563	.5	504 681	.8	330 133	8.4	41 898	6.9	237 592	1.0	75 016	1.8
Hood	638	.5	212 741	1.7	312 701	5.2	13 780	8.2	21 916	1.8	(D)	(D)
Hopkins	1 766	.3	374 043	1.1	186 108	7.8	55 230	4.1	68 937	1.0	43	17.6
Houston	1 421	.3	422 172	1.2	264 669	3.5	34 077	4.6	41 821	1.8	433	6.9
Howard	385	.6	483 275	.8	416 369	3.6	20 584	6.9	88 008	1.4	1 676	10.7
Hudspeth	148	1.0	2 266 986	.1	2 538 514	3.6	11 924	5.6	30 417	2.1	30 967	2.1
Hunt	1 939	.3	348 386	1.2	160 597	7.6	37 503	7.2	77 992	1.8	624	12.4
Hutchinson	173	.9	444 779	.9	552 185	2.9	13 994	2.4	55 412	1.7	30 773	2.6
Irion	137	.7	609 447	.4	938 569	5.0	2 954	6.6	3 224	3.1	886	9.9
Jack	653	.4	519 342	1.0	387 415	3.3	12 025	9.8	11 849	3.8	102	14.4
Jackson	783	.4	457 207	1.0	487 778	10.3	38 331	8.5	103 933	1.1	26 501	1.8
Jasper	602	.6	101 968	2.4	147 410	.8	11 970	7.9	8 155	3.8	307	19.2
Jeff Davis	90	1.1	1 532 081	.2	2 318 322	(Z)	2 533	(Z)	(D)	(D)	113	9.3
Jefferson	532	.6	311 992	1.3	412 132	6.4	20 149	9.3	45 909	2.8	30 418	2.2
Jim Hogg	202	1.0	785 975	.5	1 074 743	.8	4 012	14.8	3 648	8.7	(D)	(D)
Jim Wells	771	.5	502 206	1.2	418 563	4.3	24 316	6.2	122 265	1.4	2 542	5.4
Johnson	1 867	.3	312 129	1.4	297 388	6.5	36 699	7.0	75 345	1.8	645	10.2
Jones	896	.5	487 903	1.0	238 470	5.5	35 076	4.4	163 191	1.2	6 515	6.8
Karnes	1 115	.3	403 124	1.1	261 909	4.7	24 192	6.2	60 266	2.0	685	8.5
Kaufman	1 704	.3	361 425	1.2	285 157	3.4	33 202	4.4	57 906	1.7	181	7.0
Kendall	659	.4	351 297	1.3	708 264	4.5	12 327	9.8	10 709	3.0	442	9.0
Kenedy	24	-	621 878	-	6 563 083	(Z)	1 623	(Z)	(D)	(D)	(D)	(D)
Kent	179	.8	554 352	.6	491 583	3.6	7 475	8.8	(D)	(D)	1 107	2.7
Kerr	584	.4	539 371	.8	843 678	4.2	9 891	6.8	8 960	3.3	1 366	7.4
Kimble	442	.4	781 013	.6	662 271	5.8	7 468	6.8	5 269	3.8	1 835	7.7
King	50	1.8	409 706	.3	1 145 100	(Z)	2 131	(Z)	9 514	4.6	(D)	(D)
Kinney	110	1.1	653 556	.4	1 887 727	2.8	3 042	4.6	1 788	5.7	2 358	4.5
Kleberg	274	.9	938 193	.3	1 113 938	1.0	11 239	5.1	58 908	.5	925	20.0
Knox	351	.6	534 150	.7	427 675	3.3	16 921	7.1	131 501	1.3	19 541	2.8
Lamar	1 488	.3	406 639	1.1	205 749	5.3	33 090	6.9	99 963	1.7	1 480	16.3
Lamb	791	.5	496 345	.9	289 120	6.7	60 061	6.9	226 556	1.0	178 314	1.1
Lampasas	615	.4	404 876	1.0	380 111	4.9	12 423	8.4	20 842	1.7	253	20.1
La Salle	285	.8	786 840	.7	1 111 215	2.5	7 582	10.0	12 012	3.3	1 987	15.3
Lavaca	2 514	.2	507 900	.6	202 459	6.0	42 345	5.0	52 284	1.0	5 585	3.0
Lee	1 583	.3	324 657	1.2	242 289	4.0	31 357	5.5	35 613	1.7	841	7.3
Leon	1 619	.3	499 334	1.2	293 912	3.1	33 940	6.0	42 451	1.5	492	13.4
Liberty	955	.5	362 794	1.3	355 670	7.1	24 932	5.7	72 291	1.5	21 302	1.8
Limestone	1 200	.4	459 897	1.0	242 583	2.3	24 821	7.4	50 435	2.1	259	13.2
Lipscomb	314	.7	558 370	.9	414 949	5.5	19 016	12.0	(D)	(D)	10 267	4.9
Live Oak	803	.5	517 379	1.1	452 291	7.9	20 272	10.2	57 831	2.4	3 456	3.1
Llano	530	.4	534 043	.9	712 925	4.2	8 913	11.6	4 762	3.4	858	8.7
Loving	17	-	415 540	-	2 606 412	(Z)	334	(Z)	(D)	(D)	72	-
Lubbock	969	.5	465 173	1.0	309 440	10.1	61 925	6.2	231 814	1.0	123 724	1.5
Lynn	503	.6	474 424	.9	354 998	5.1	36 071	4.9	212 326	1.0	30 796	2.7
McCulloch	489	.5	636 274	.8	631 033	2.5	13 613	5.6	48 917	2.8	929	8.4
McLennan	1 977	.3	445 252	1.0	191 918	4.8	49 615	5.4	150 505	1.5	796	8.1

See footnotes at end of table.

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

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

Geographic area	Farms		Land in farms		Average value of land and buildings per farm ¹		Estimated market value of all machinery and equipment ¹		Harvested cropland		Irrigated land	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)
McMullen	211	.7	543 283	.7	1 270 474	4.0	5 800	8.8	(D)	(D)	(D)	(D)
Madison	756	.4	222 574	1.5	341 874	2.6	17 326	7.6	15 045	1.7	311	20.9
Marion	207	.7	49 658	1.8	170 101	2.3	3 546	15.4	5 956	3.8	(D)	(D)
Martin	366	.8	503 635	.9	437 005	6.0	25 785	8.1	121 713	1.5	5 769	10.3
Mason	567	.4	548 293	.9	579 513	5.4	13 593	16.4	9 324	2.4	5 079	4.0
Matagorda	721	.5	578 993	.9	585 567	6.3	44 240	10.8	100 330	1.3	35 026	1.8
Maverick	202	1.1	672 382	.5	1 123 644	2.7	9 415	3.4	11 613	2.7	16 489	2.5
Medina	570	.3	685 417	1.0	463 152	5.1	44 282	5.0	103 822	1.6	33 330	2.3
Menard	261	.7	501 761	.8	719 985	3.4	4 737	8.6	4 117	4.6	1 132	10.4
Midland	343	.6	733 377	.5	539 131	2.2	11 193	7.0	33 449	2.8	9 611	4.7
Milam	577	.3	514 582	.9	286 074	6.0	34 618	3.9	112 362	1.4	1 325	11.8
Mills	682	.4	403 063	1.1	331 025	5.0	15 091	7.3	22 899	2.4	1 680	9.9
Mitchell	387	.8	531 023	.9	348 651	4.1	16 019	7.6	64 001	2.4	475	5.6
Montague	1 118	.3	448 354	1.0	219 368	4.4	20 407	6.5	35 470	2.0	767	11.8
Montgomery	952	.4	188 284	1.9	290 713	4.4	17 154	8.2	9 523	3.3	163	7.5
Moore	297	.8	564 821	.8	663 236	7.5	29 359	6.7	133 869	1.0	99 944	1.2
Morris	349	.6	75 350	2.6	154 857	4.5	7 045	8.2	10 044	2.8	(D)	(D)
Motley	202	1.1	467 309	.9	602 366	2.0	7 630	15.9	41 385	3.4	3 880	4.8
Nacogdoches	1 243	.3	239 772	1.4	244 853	6.5	28 701	2.9	22 873	2.0	370	13.2
Navarro	1 463	.3	505 366	1.0	232 898	5.0	35 175	7.4	81 457	1.4	196	12.8
Newton	268	.8	64 047	1.5	203 761	1.9	5 396	15.8	3 840	2.6	21	17.2
Nolan	454	.6	555 520	.9	373 359	6.3	15 305	6.2	63 020	1.9	1 619	9.7
Nueces	656	.5	465 658	.8	692 895	3.1	45 686	8.5	247 044	.8	1 580	1.7
Ochiltree	391	.6	607 038	.8	570 831	4.2	30 530	7.5	214 199	1.0	62 884	1.9
Oldham	133	1.2	812 372	.4	897 113	1.9	9 636	7.2	57 818	2.3	4 424	3.3
Orange	309	.6	53 640	3.5	195 883	3.2	4 923	21.8	3 171	5.7	1 339	9.0
Palo Pinto	719	.4	510 757	1.1	365 597	6.2	15 041	6.7	23 340	3.1	1 829	11.0
Panola	912	.5	201 728	1.7	224 282	9.1	20 862	7.1	18 166	2.1	299	18.0
Parker	943	.2	403 385	1.1	340 746	4.9	39 424	7.0	40 571	1.6	892	5.8
Parmer	653	.5	499 011	.7	443 704	5.1	62 998	3.9	214 679	.7	171 606	.7
Pecos	286	.7	2 918 048	.1	1 241 972	1.4	9 678	2.8	(D)	(D)	20 617	1.4
Polk	559	.5	144 390	1.4	212 054	7.1	9 882	11.4	8 663	2.1	121	17.4
Potter	177	.9	546 742	.4	662 136	6.6	6 820	7.4	(D)	(D)	7 605	6.3
Presidio	139	.9	1 890 612	.2	2 114 525	30.5	3 389	4.1	4 512	1.0	9 426	25.1
Rains	454	.6	96 893	3.3	187 572	5.9	9 100	10.6	17 016	3.8	44	13.0
Randall	619	.5	445 493	1.1	302 488	6.3	45 102	15.5	130 238	1.3	30 888	2.9
Reagan	127	1.0	712 335	.4	942 850	5.8	8 615	7.6	29 618	1.4	17 646	1.3
Real	189	.7	318 164	1.1	1 185 275	4.7	2 910	8.1	1 529	3.5	563	4.4
Red River	1 035	.4	388 412	1.2	227 375	7.9	24 055	10.3	64 430	1.7	546	4.3
Reeves	174	.9	1 432 367	.2	1 021 994	7.7	6 891	5.4	10 867	2.7	12 973	2.3
Refugio	254	.7	529 092	.5	801 134	2.4	11 817	7.7	63 249	1.3	(D)	(D)
Roberts	106	1.3	524 222	.4	863 776	5.6	7 204	10.4	23 399	2.9	3 731	7.7
Robertson	1 207	.3	395 291	1.0	302 305	3.4	31 889	8.3	53 736	1.0	11 151	.7
Rockwall	181	.8	41 091	4.7	421 756	4.7	4 430	7.8	9 795	5.9	48	14.6
Runnels	838	.4	576 671	1.0	328 889	5.0	31 175	5.5	166 811	1.3	3 564	7.9
Rusk	1 327	.3	271 230	1.3	200 091	4.7	27 256	7.5	24 357	2.1	524	10.3
Sabine	224	.9	33 922	3.1	146 560	7.0	6 048	30.1	3 173	4.2	14	19.7
San Augustine	320	.7	54 825	2.4	170 984	15.7	6 683	17.5	5 804	2.3	39	20.4
San Jacinto	349	.7	91 209	3.6	232 223	5.4	7 181	17.7	6 456	6.0	76	15.2
San Patricio	549	.5	340 034	.7	654 550	3.7	38 707	6.2	187 460	.8	(D)	(D)
San Saba	609	.5	741 678	.8	693 716	6.5	17 617	10.8	32 039	2.2	3 200	4.7
Schleicher	252	.4	760 431	.4	877 329	2.9	9 527	9.5	19 884	2.4	986	1.4
Scurry	573	.5	505 808	1.2	290 808	4.1	26 250	11.9	77 527	1.9	41	18.1
Shackelford	251	.9	550 354	.7	603 741	4.3	5 689	5.6	22 972	3.5	(D)	(D)
Shelby	1 135	.3	203 750	1.4	177 255	6.5	26 369	4.8	19 350	1.8	318	3.1
Sherman	297	.8	546 175	.8	654 483	4.5	27 304	4.9	168 821	.9	120 450	1.0
Smith	1 701	.3	249 326	1.5	205 597	7.6	33 170	6.5	37 687	1.6	909	3.4
Somervell	234	.9	65 054	3.0	258 082	5.4	4 628	11.6	6 007	4.7	410	2.3
Starr	885	.6	599 295	1.1	405 951	2.7	21 652	6.5	115 054	1.0	9 237	.8
Stephens	419	.7	474 001	.9	443 594	1.9	10 300	13.3	12 677	3.5	351	7.9
Sterling	75	1.2	675 977	.2	2 076 067	(Z)	2 398	(Z)	3 098	.1	238	1.2
Stonewall	312	1.0	506 172	1.1	416 631	4.2	11 723	10.4	41 545	3.1	(D)	(D)
Sutton	191	.7	851 494	.5	1 185 136	3.4	4 767	5.3	(D)	(D)	326	6.1
Swisher	546	.5	530 622	.8	372 565	7.9	46 386	7.9	190 036	1.0	115 393	1.1
Tarrant	1 117	.4	198 180	2.0	442 311	11.9	21 274	8.3	33 416	2.6	1 618	4.4
Taylor	903	.4	431 408	1.4	231 650	4.6	25 094	8.6	92 654	1.5	678	6.2
Terrell	91	1.0	1 129 318	.3	1 894 110	(Z)	2 971	(Z)	(D)	(D)	(D)	(D)
Terry	517	.6	463 136	.8	355 431	5.7	38 531	4.6	243 400	.9	81 379	1.5
Throckmorton	303	.9	609 702	.9	538 530	3.3	10 011	12.4	58 417	2.1	(D)	(D)
Titus	738	.4	177 929	1.0	203 944	3.8	13 520	7.2	18 781	1.5	103	29.5
Tom Green	867	.4	1 014 367	.5	569 025	7.5	36 753	5.1	125 523	1.7	26 083	2.2
Travis	1 034	.4	306 767	1.6	568 338	9.4	22 696	7.2	49 277	2.3	697	7.5
Trinity	550	.5	133 122	2.7	222 580	3.0	10 878	14.0	9 985	2.2	55	16.7
Tyler	500	.4	96 724	2.7	202 308	5.0	8 712	10.6	6 913	2.2	120	17.1
Upshur	1 038	.3	170 695	1.4	175 824	4.7	21 739	5.9	22 040	1.5	47	17.6
Upton	86	1.2	739 149	.2	1 502 349	(Z)	4 361	(Z)	14 209	3.1	7 534	1.1
Uvalde	575	.6	850 230	.8	773 191	4.9	25 521	8.1	72 292	1.3	49 843	1.5
Val Verde	242	.7	1 761 748	.3	1 531 021	4.1	6 658	9.4	(D)	(D)	5 115	1.8
Van Zandt	2 395	.2	380 811	1.1	184 984	5.8	48 798	4.5	64 245	1.3	1 606	5.6
Victoria	1 119	.3	427 724	.7	334 277	3.4	28 693	6.9	75 444	1.5	6 940	4.6

See footnotes at end of table.

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

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

Geographic area	Farms		Land in farms		Average value of land and buildings per farm ¹		Estimated market value of all machinery and equipment ¹		Harvested cropland		Irrigated land	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)
Walker	747	.5	269 832	1.7	389 563	2.9	13 552	7.9	14 903	2.1	161	7.7
Waller	893	.4	276 750	1.4	570 454	6.7	21 592	6.4	47 966	2.0	5 461	1.4
Ward	82	1.2	468 610	.4	616 402	(Z)	1 807	(Z)	414	4.6	665	6.3
Washington	1 983	.2	338 840	.9	279 157	3.3	34 604	6.3	42 889	1.2	340	7.6
Webb	494	.7	2 021 882	.3	1 352 743	2.5	12 094	6.0	4 994	4.5	3 346	10.5
Wharton	1 272	.3	685 935	.6	498 064	6.9	72 996	3.0	224 162	.8	79 931	.9
Wheeler	467	.6	486 321	1.0	255 145	3.5	21 535	8.1	65 477	1.8	4 814	4.4
Wichita	544	.5	298 490	1.2	218 563	4.6	15 723	6.3	74 969	1.6	4 373	10.3
Wilbarger	486	.7	849 507	.5	507 317	2.4	28 937	5.2	156 427	1.3	7 573	5.0
Willacy	293	.8	227 319	.9	669 956	4.8	28 627	2.9	150 446	.8	13 865	2.6
Williamson	1 891	.3	527 175	1.1	388 795	5.4	47 014	4.0	157 497	1.3	803	10.2
Wilson	1 746	.3	448 022	.9	230 888	6.8	44 708	5.3	83 010	1.3	10 491	1.8
Winkler	30	2.1	467 166	(Z)	1 971 867	(Z)	585	(Z)	(D)	(D)	18	36.0
Wise	1 749	.3	402 967	1.1	275 938	7.7	37 184	5.1	53 480	1.8	678	7.9
Wood	1 303	.3	206 782	1.3	198 586	7.1	30 259	6.0	33 471	1.7	635	9.4
Yoakum	273	.9	348 460	1.1	469 194	5.6	20 393	5.3	132 185	1.6	49 587	2.4
Young	713	.5	585 910	1.0	301 980	6.1	18 522	6.1	55 365	1.7	295	16.4
Zapata	360	.8	431 704	1.3	511 314	3.2	5 448	13.1	2 487	9.1	234	19.7
Zavala	272	.8	825 843	.6	1 261 732	4.6	14 104	7.9	38 331	1.6	25 519	1.7
Geographic area	Cattle and calves inventory		Hogs and pigs inventory		Corn for grain or seed		Wheat for grain		Soybeans for beans		Market value of agricultural products sold	
	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)
Anderson	72 654	1.5	(D)	(D)	306	10.4	(D)	(D)	-	-	18 392	1.4
Andrews	18 323	.3	256	24.4	-	-	5 461	6.8	-	-	10 642	1.8
Angelina	21 136	1.8	468	12.3	70	11.5	-	-	-	-	13 371	.7
Aransas	2 001	5.3	(D)	(D)	-	-	-	-	-	-	670	7.7
Archer	66 296	.8	(D)	(D)	(D)	(D)	31 425	2.7	-	-	46 680	.4
Armstrong	37 422	.8	281	2.3	(D)	(D)	54 491	1.6	(D)	(D)	23 764	.7
Atascosa	90 464	1.0	3 866	8.1	5 572	3.4	6 312	6.3	-	-	39 571	.8
Austin	84 179	1.1	2 724	8.0	3 024	5.6	42	5.3	(D)	(D)	21 622	1.0
Bailey	70 924	1.0	591	8.0	14 420	1.9	22 448	3.1	(D)	(D)	85 670	.4
Bandera	14 310	1.5	269	4.5	31	14.4	166	22.4	-	-	3 997	1.2
Bastrop	78 955	1.2	3 904	5.8	1 152	11.4	413	16.8	-	-	19 940	1.2
Baylor	45 160	1.5	255	16.2	-	-	62 124	1.2	-	-	24 704	.7
Bee	61 277	1.6	628	10.6	29 646	1.9	4 014	9.2	-	-	19 672	1.2
Bell	56 096	1.1	1 272	9.3	28 655	1.5	27 508	2.1	-	-	47 340	.5
Bexar	56 289	1.2	6 751	6.0	14 667	4.5	9 534	3.8	(D)	(D)	42 282	.6
Blanco	24 770	1.1	746	4.9	(D)	(D)	246	13.1	-	-	14 037	.7
Borden	18 518	1.1	54	22.6	-	-	512	9.4	-	-	18 133	.7
Bosque	57 239	.8	3 123	13.3	1 519	2.9	20 082	3.0	-	-	24 627	.8
Bowie	47 962	1.5	834	6.3	838	6.6	7 183	6.3	9 293	8.7	34 074	.7
Brazoria	60 406	1.9	5 001	2.2	5 197	1.2	400	-	8 790	5.5	37 145	.8
Brazos	60 779	1.2	7 311	3.7	3 673	.3	(D)	(D)	(D)	(D)	35 106	.5
Brewster	39 770	.2	(D)	(D)	-	-	-	-	-	-	9 806	.3
Briscoe	24 825	2.3	(D)	(D)	2 026	5.9	22 708	2.4	1 576	4.0	16 424	1.4
Brooks	38 030	1.2	(D)	(D)	464	19.7	-	-	-	-	11 720	1.5
Brown	49 604	1.3	11 393	3.2	(D)	(D)	15 883	4.7	-	-	24 135	1.0
Burleson	64 084	1.4	2 136	8.8	3 498	4.7	2 195	1.8	(D)	(D)	18 819	1.2
Burnet	38 644	1.2	1 622	14.3	100	7.9	1 125	6.1	-	-	11 819	1.0
Caldwell	47 904	1.3	6 089	6.5	2 486	8.3	749	7.1	(D)	(D)	32 223	.6
Calhoun	16 171	2.4	209	16.5	6 122	3.8	-	-	(D)	(D)	10 363	2.0
Callahan	51 852	1.2	996	11.2	13	36.7	21 199	3.5	-	-	16 939	1.2
Cameron	23 910	2.1	695	9.3	19 780	2.2	2 090	7.7	(D)	(D)	87 106	.5
Camp	20 862	2.2	778	17.2	209	4.4	(D)	(D)	-	-	91 298	.2
Carson	66 528	.7	1 332	14.6	2 243	5.2	95 359	1.3	(D)	(D)	60 766	.4
Cass	35 784	1.9	243	13.7	44	15.4	(D)	(D)	(D)	(D)	14 845	.7
Castro	221 308	.4	4 138	2.1	55 895	1.1	71 215	.9	4 139	2.9	281 452	.2
Chambers	21 281	2.4	229	18.0	(D)	(D)	-	-	8 020	2.6	14 690	1.3
Cherokee	69 706	1.0	338	22.1	210	11.8	46	23.9	(D)	(D)	49 162	.4
Childress	16 033	2.6	167	42.0	-	-	29 916	2.2	-	-	16 758	1.3
Clay	84 078	1.0	787	11.9	(D)	(D)	35 669	2.0	-	-	36 695	.5
Cochran	30 172	.9	56	22.6	-	-	3 906	3.9	-	-	49 905	.6
Coke	22 548	1.2	940	3.7	(D)	(D)	3 388	8.0	-	-	8 983	1.1
Coleman	46 682	1.2	1 495	3.7	(D)	(D)	28 190	2.6	-	-	17 318	1.0
Collin	46 434	2.3	1 535	24.9	5 452	1.7	36 064	2.8	(D)	(D)	41 762	.7
Collingsworth	29 793	2.1	155	22.4	-	-	19 147	3.2	-	-	22 023	1.3
Colorado	83 081	.9	3 111	3.3	10 583	4.2	(D)	(D)	1 333	-	37 499	.8
Comal	17 599	2.3	1 223	9.4	1 824	6.3	1 075	7.4	-	-	4 383	1.8
Comanche	78 863	.9	8 867	1.7	120	5.8	2 985	3.9	-	-	66 495	.5
Concho	28 814	1.2	2 405	7.1	-	-	34 048	2.9	-	-	21 044	1.1
Cooke	87 895	1.1	3 481	21.7	(D)	(D)	31 864	2.5	(D)	(D)	43 067	.8
Coryell	52 013	1.2	5 726	5.5	1 858	8.9	15 845	3.0	-	-	21 721	1.0

See footnotes at end of table.

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

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

Geographic area	Cattle and calves inventory		Hogs and pigs inventory		Corn for grain or seed		Wheat for grain		Soybeans for beans		Market value of agricultural products sold	
	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)
Cottle	23 407	1.2	370	5.9	(D)	(D)	11 518	4.6	-	-	14 130	1.4
Crane	9 895	.3	-	-	-	-	-	-	-	-	2 135	.5
Crockett	25 282	.6	(D)	(D)	-	-	-	-	-	-	16 469	.3
Crosby	15 318	2.2	272	11.2	201	8.3	12 536	5.4	742	14.4	42 846	.8
Culberson	20 357	1.5	(D)	(D)	(D)	(D)	(D)	(D)	-	-	7 777	1.8
Dallam	149 224	.4	581	8.5	45 443	1.2	97 114	1.1	(D)	(D)	166 853	.2
Dallas	18 040	2.8	1 608	7.7	3 684	5.0	6 743	5.7	(D)	(D)	15 200	.9
Dawson	8 446	1.5	(D)	(D)	(D)	(D)	1 710	3.5	-	-	42 443	1.1
Deaf Smith	376 396	.2	5 705	5.3	17 375	1.7	133 307	.9	693	-	578 101	.1
Delta	24 516	2.1	64	24.5	808	5.2	10 041	3.8	3 183	5.4	10 871	1.4
Denton	49 709	1.4	2 949	9.8	774	7.8	31 534	2.3	-	-	25 472	1.0
De Witt	103 118	.9	6 030	5.6	5 403	4.9	1 295	12.0	-	-	36 299	.7
Dickens	21 306	1.8	(D)	(D)	-	-	6 746	5.2	-	-	12 456	1.9
Dimmit	36 860	1.0	643	5.5	2 985	4.0	(D)	(D)	-	-	25 230	.5
Donley	54 850	.7	451	16.6	(D)	(D)	5 914	3.6	-	-	46 303	.4
Duval	69 254	.8	372	11.0	17 737	3.3	773	17.3	(D)	(D)	19 681	.9
Eastland	48 761	1.2	1 059	7.0	(D)	(D)	3 773	6.2	-	-	24 631	1.2
Ector	9 486	3.1	326	26.8	-	-	(D)	(D)	-	-	3 475	1.6
Edwards	20 641	1.2	(D)	(D)	-	-	-	-	-	-	11 371	.8
Ellis	51 657	1.6	1 787	20.9	21 543	2.5	28 506	2.1	-	-	28 008	1.0
El Paso	26 411	.7	4 090	3.3	(D)	(D)	1 042	1.4	-	-	66 085	.3
Erath	124 934	.7	3 059	2.5	282	1.7	1 852	3.5	-	-	112 428	.3
Falls	121 604	.8	814	11.1	26 068	3.0	16 010	3.0	(D)	(D)	54 358	.6
Fannin	65 576	1.1	1 343	17.9	6 802	2.2	43 005	1.9	6 454	3.0	25 220	1.1
Fayette	110 518	.8	13 093	2.4	10 257	2.9	368	7.8	(D)	(D)	53 835	.4
Fisher	35 136	1.6	(D)	(D)	(D)	(D)	24 149	3.2	-	-	29 803	1.2
Floyd	56 764	.7	(D)	(D)	9 884	1.7	78 249	1.6	7 090	3.5	134 184	.3
Foard	16 310	2.0	148	39.8	(D)	(D)	49 180	2.1	-	-	11 696	1.8
Fort Bend	50 934	1.8	1 530	4.8	9 628	2.8	796	.5	2 378	3.7	44 828	.7
Franklin	35 482	1.0	130	4.1	(D)	(D)	(D)	(D)	-	-	30 281	.6
Freestone	73 387	1.2	576	11.7	29	17.3	-	-	-	-	14 569	1.2
Frio	60 271	1.1	2 653	18.8	10 657	2.0	8 543	1.9	(D)	(D)	77 634	.4
Gaines	17 607	3.2	697	11.5	(D)	(D)	15 720	2.8	(D)	(D)	83 712	.5
Galveston	10 935	3.4	685	17.5	1 326	3.0	-	-	(D)	(D)	5 607	2.5
Garza	24 411	1.2	20	9.5	-	-	333	3.7	-	-	19 753	1.2
Gillespie	47 116	.9	13 646	2.7	897	8.0	7 000	4.2	-	-	35 565	.6
Glasscock	15 181	.9	796	41.8	(D)	(D)	4 360	5.1	-	-	22 357	1.3
Goliad	70 072	.9	635	15.2	7 676	1.0	476	11.1	-	-	17 805	.8
Gonzales	123 135	.7	6 727	8.9	3 573	3.8	1 198	5.0	-	-	163 386	.2
Gray	85 778	.6	2 779	11.9	815	9.1	54 269	2.2	-	-	88 199	.2
Grayson	62 994	1.3	2 714	10.2	2 749	3.2	52 512	1.7	(D)	(D)	27 179	1.0
Gregg	11 372	2.5	99	10.2	(D)	(D)	-	-	-	-	2 887	2.5
Grimes	86 192	1.1	1 218	7.7	166	36.6	(D)	(D)	-	-	26 129	1.0
Guadalupe	58 023	1.1	5 088	6.6	14 498	3.7	14 184	2.9	-	-	27 522	.8
Hale	85 160	.7	12 826	3.8	58 550	1.1	28 069	1.8	11 586	1.9	160 277	.3
Hall	15 481	3.1	269	25.5	-	-	4 755	6.0	(D)	(D)	21 449	1.6
Hamilton	54 189	1.4	1 269	6.6	1 771	6.7	10 898	2.9	-	-	25 158	.8
Hansford	221 013	.3	534	15.2	11 599	2.5	106 326	1.4	(D)	(D)	310 843	.1
Hardeman	17 594	3.0	76	21.6	-	-	81 388	2.2	(D)	(D)	12 719	1.9
Hardin	4 914	3.5	297	12.9	38	18.2	(D)	(D)	(D)	(D)	1 695	3.2
Harris	54 707	1.7	1 569	14.0	7 968	4.8	1 539	15.7	4 790	8.5	39 710	.8
Harrison	37 424	1.8	654	14.7	388	24.0	(D)	(D)	(D)	(D)	9 906	1.7
Hartley	174 606	.2	(D)	(D)	23 635	1.9	65 990	1.1	232	-	221 278	.1
Haskell	22 825	2.0	464	17.3	(D)	(D)	53 172	2.5	-	-	32 586	1.2
Hays	26 708	2.3	207	12.4	3 246	7.7	2 088	8.6	-	-	10 429	1.3
Hemphill	69 169	.5	480	6.2	(D)	(D)	19 576	3.7	-	-	49 529	.4
Henderson	93 441	1.0	1 804	6.5	230	11.4	(D)	(D)	-	-	23 480	.8
Hidalgo	47 994	2.0	2 316	7.5	26 904	1.7	779	17.6	270	3.0	233 095	.2
Hill	55 602	1.5	2 489	8.2	15 239	2.6	46 654	1.9	-	-	36 027	.9
Hockley	22 881	1.9	(D)	(D)	(D)	(D)	8 505	3.0	213	25.3	74 657	.5
Hood	28 782	1.6	243	12.0	76	26.6	584	7.1	-	-	20 089	.9
Hopkins	147 107	.6	2 284	4.0	17	16.5	516	4.1	(D)	(D)	119 390	.4
Houston	91 749	1.3	(D)	(D)	670	4.2	704	.7	-	-	25 055	.9
Howard	12 972	2.0	177	30.2	-	-	667	.5	-	-	26 814	1.1
Hudspeth	26 987	.3	(D)	(D)	(D)	(D)	1 474	1.7	-	-	23 205	.9
Hunt	52 518	1.2	495	8.7	1 781	9.1	19 206	3.6	(D)	(D)	18 687	1.3
Hutchinson	34 123	.9	37	17.3	3 982	1.9	36 310	1.7	-	-	40 536	.3
Irion	15 101	.5	-	-	-	-	1 140	-	-	-	5 924	.5
Jack	51 309	1.1	633	13.0	78	27.1	4 089	7.8	-	-	15 292	.8
Jackson	42 955	1.6	925	11.6	33 841	2.3	(D)	(D)	1 915	2.6	31 751	.8
Jasper	16 233	2.6	547	17.5	100	14.8	(D)	(D)	-	-	4 012	2.3
Jeff Davis	41 131	.8	144	5.5	-	-	-	-	-	-	9 380	.6
Jefferson	28 196	2.1	257	16.0	(D)	(D)	549	9.0	7 183	6.1	17 855	1.3
Jim Hogg	46 849	.6	-	-	-	-	-	-	-	-	11 912	.8
Jim Wells	54 605	1.8	618	11.8	21 423	1.9	8 540	5.7	-	-	38 632	.6
Johnson	64 423	1.0	3 119	9.0	1 417	2.3	21 459	3.3	105	8.1	56 000	.5
Jones	40 686	1.4	1 284	8.7	-	-	52 301	1.8	-	-	36 999	1.0
Karnes	67 708	1.4	7 321	5.8	13 084	3.2	16 128	4.0	-	-	19 414	1.1
Kaufman	60 511	1.2	767	11.2	399	13.1	11 339	3.0	-	-	18 868	1.0
Kendall	20 336	1.4	1 528	12.3	163	13.3	327	7.2	-	-	8 665	2.0

See footnotes at end of table.

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

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

Geographic area	Cattle and calves inventory		Hogs and pigs inventory		Corn for grain or seed		Wheat for grain		Soybeans for beans		Market value of agricultural products sold	
	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)
Kenedy	43 862	-	-	-	-	-	-	-	-	-	6 275	-
Kent	22 916	1.0	60	20.8	-	-	3 867	1.6	(D)	(D)	10 101	1.1
Kerr	21 560	1.1	702	19.1	17	14.3	428	8.3	-	-	8 614	1.1
Kimble	20 783	1.2	1 062	37.2	(D)	(D)	(D)	(D)	-	-	8 935	1.1
King	16 385	1.1	-	-	-	-	2 618	-	-	-	7 905	1.1
Kinney	23 060	.7	(D)	(D)	265	33.2	-	-	-	-	10 366	.5
Kleberg	84 547	.4	1 801	5.3	2 043	1.6	(D)	(D)	-	-	48 845	.2
Knox	40 271	1.0	176	24.5	5 282	18.7	82 501	1.4	(D)	(D)	38 450	.7
Lamar	73 069	1.3	691	12.4	2 326	5.9	28 278	3.6	8 627	5.0	27 773	1.0
Lamb	108 151	.8	5 799	11.5	34 224	1.6	17 581	2.2	4 260	6.6	167 721	.3
Lampasas	33 800	1.1	5 112	6.8	(D)	(D)	3 697	3.7	(D)	(D)	11 352	1.1
La Salle	43 793	1.5	(D)	(D)	1 860	5.1	1 318	9.8	-	-	26 380	.6
Lavaca	105 712	.7	4 181	6.4	5 921	2.5	802	8.3	-	-	34 354	.5
Lee	80 829	1.2	6 201	6.0	2 691	6.8	985	9.4	-	-	21 297	1.0
Leon	100 611	1.2	3 486	6.4	144	18.0	(D)	(D)	-	-	22 296	1.1
Liberty	25 874	1.9	746	11.2	3 126	5.6	(D)	(D)	32 925	2.2	21 129	.9
Limestone	81 985	1.1	1 471	7.5	5 549	5.0	9 093	5.6	-	-	26 471	.8
Lipscomb	48 552	1.0	1 044	18.7	-	-	61 825	1.9	-	-	31 917	.6
Live Oak	51 754	1.4	1 043	18.2	18 789	4.3	6 043	6.2	-	-	15 798	1.3
Llano	44 618	1.0	6 862	7.9	-	-	(D)	(D)	-	-	11 118	1.4
Loving	3 441	-	-	-	-	-	-	-	-	-	952	-
Lubbock	60 145	.6	15 489	3.6	1 395	4.0	4 562	5.3	1 325	4.9	139 982	.4
Lynn	10 939	2.2	351	24.6	(D)	(D)	1 966	3.0	(D)	(D)	48 755	.8
McCulloch	39 276	1.2	4 215	16.1	(D)	(D)	26 822	3.9	-	-	18 689	1.3
McLennan	76 417	1.0	3 853	4.0	29 854	2.8	36 325	2.4	(D)	(D)	79 049	.4
McMullen	33 596	1.0	(D)	(D)	570	1.3	1 176	16.8	-	-	7 070	1.0
Madison	52 211	1.5	4 640	5.0	(D)	(D)	(D)	(D)	-	-	36 297	.5
Marion	9 058	2.6	68	5.6	(D)	(D)	-	-	-	-	2 904	1.6
Martin	10 885	2.3	(D)	(D)	-	-	488	17.1	-	-	31 796	1.2
Mason	45 924	.9	1 205	6.6	117	7.7	640	16.3	-	-	23 490	.6
Matagorda	54 665	1.8	131	6.7	7 141	5.9	(D)	(D)	6 706	3.6	37 017	.9
Maverick	50 796	.6	55	18.7	(D)	(D)	144	34.0	-	-	53 158	.3
Medina	73 126	1.0	2 324	13.3	38 507	2.3	11 021	3.9	131	15.4	44 074	.7
Menard	19 528	1.2	-	-	50	-	1 314	-	-	-	18 622	.4
Midland	22 058	.9	632	9.8	(D)	(D)	(D)	(D)	-	-	14 534	1.0
Milam	97 337	1.0	13 145	3.3	11 082	3.0	20 758	1.9	124	21.5	41 664	.7
Mills	37 051	1.4	2 402	10.2	(D)	(D)	3 601	5.0	-	-	20 606	1.1
Mitchell	24 227	2.1	76	18.0	(D)	(D)	1 954	10.7	-	-	22 823	1.5
Montague	74 100	1.3	613	10.4	(D)	(D)	11 662	3.2	-	-	25 400	1.0
Montgomery	24 595	2.4	939	16.6	20	19.0	420	38.0	-	-	8 719	1.4
Moore	164 838	.4	(D)	(D)	24 546	2.0	70 228	1.4	560	5.6	208 478	.2
Morris	16 439	2.2	156	23.9	72	26.5	-	-	-	-	6 586	1.7
Motley	23 051	1.7	(D)	(D)	(D)	(D)	4 510	4.6	-	-	13 145	1.6
Nacogdoches	54 867	1.3	2 641	10.3	122	19.1	-	-	-	-	111 628	.3
Navarro	86 958	1.1	577	5.9	3 693	2.5	10 823	2.6	-	-	27 805	1.0
Newton	6 402	3.0	130	12.0	257	3.8	-	-	-	-	1 815	4.0
Nolan	36 116	1.1	464	25.7	(D)	(D)	7 181	2.5	-	-	38 204	.7
Nueces	18 640	2.1	192	21.1	54 289	.8	2 585	6.5	(D)	(D)	50 859	.7
Ochiltree	94 235	.7	(D)	(D)	3 105	7.7	168 662	1.2	(D)	(D)	108 919	.3
Oldham	61 280	.5	(D)	(D)	-	-	39 990	2.7	-	-	62 685	.3
Orange	6 567	3.4	372	9.0	-	-	-	-	(D)	(D)	2 005	4.0
Palo Pinto	42 507	1.1	59	13.3	(D)	(D)	6 494	7.0	-	-	13 322	.9
Panola	39 076	1.8	1 063	15.8	57	21.3	-	-	-	-	31 338	.6
Parker	61 129	1.0	1 323	5.1	28	15.1	1 647	9.1	-	-	31 585	.7
Parmer	232 334	.4	833	14.1	58 787	1.1	72 119	1.5	3 133	4.6	342 562	.1
Pecos	50 360	.5	334	21.6	-	-	(D)	(D)	-	-	34 571	.5
Polk	19 608	1.5	482	15.0	62	10.4	-	-	(D)	(D)	4 819	1.5
Potter	36 591	.5	570	10.0	-	-	15 332	3.7	-	-	17 927	.7
Presidio	34 215	.7	32	26.1	-	-	-	-	-	-	14 650	.3
Rains	21 609	2.6	5 761	(Z)	71	23.2	1 815	5.5	-	-	11 030	1.1
Randall	153 309	.5	2 677	15.6	(D)	(D)	87 526	1.5	(D)	(D)	166 332	.2
Reagan	12 710	1.1	325	1.8	(D)	(D)	1 578	7.1	-	-	13 393	.8
Real	7 903	1.6	14	17.9	-	-	-	-	-	-	3 051	1.4
Red River	69 477	1.2	989	13.5	782	6.9	9 266	4.6	10 817	7.1	29 171	.8
Reeves	68 887	.3	50	31.2	-	-	(D)	(D)	-	-	65 825	.2
Refugio	33 717	1.4	23	19.5	10 535	1.6	-	-	-	-	14 606	1.0
Roberts	50 015	.5	(D)	(D)	(D)	(D)	18 949	3.2	-	-	23 002	.4
Robertson	94 844	1.0	4 406	6.7	4 821	3.0	2 488	.8	(D)	(D)	31 718	.7
Rockwall	5 641	5.9	(D)	(D)	(D)	(D)	2 777	3.5	-	-	2 020	3.8
Runnels	53 291	1.2	2 899	2.2	(D)	(D)	55 160	1.9	-	-	36 376	.9
Rusk	51 623	1.3	851	7.9	363	13.0	(D)	(D)	(D)	(D)	19 497	.9
Sabine	7 475	2.6	98	20.0	6	23.0	-	-	-	-	4 154	3.1
San Augustine	11 124	2.7	(D)	(D)	41	24.9	(D)	(D)	-	-	13 760	.9
San Jacinto	14 220	3.4	890	33.6	136	19.9	-	-	-	-	3 285	4.1
San Patricio	35 801	1.0	389	12.4	13 309	2.3	1 341	24.3	-	-	66 995	.4
San Saba	63 094	1.0	934	9.3	-	-	11 809	3.5	-	-	25 079	1.0
Schleicher	27 466	.8	(D)	(D)	-	-	3 132	7.5	-	-	15 192	.6
Scurry	23 515	1.8	778	17.5	-	-	3 706	4.6	-	-	22 100	1.5
Shackelford	34 974	.9	527	9.9	-	-	13 521	4.3	-	-	8 720	1.3
Shelby	40 233	1.2	642	18.0	104	18.0	-	-	-	-	89 273	.2

See footnotes at end of table.

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

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

Geographic area	Cattle and calves inventory		Hogs and pigs inventory		Corn for grain or seed		Wheat for grain		Soybeans for beans		Market value of agricultural products sold	
	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)
Sherman	149 242	.4	4 226	4.8	20 361	1.8	101 244	1.2	831	6.9	216 519	.1
Smith	53 473	1.3	1 242	12.0	152	15.7	(D)	(D)	-	-	32 503	.6
Somervell	6 881	2.5	186	19.8	(D)	(D)	(D)	(D)	-	-	2 201	2.9
Starr	71 971	1.1	109	15.2	3 074	10.6	104	36.4	(D)	(D)	63 104	.3
Stephens	35 975	.9	444	5.6	(D)	(D)	4 603	5.3	-	-	8 859	1.4
Sterling	13 545	.4	-	-	-	-	2 446	-	-	-	7 434	.4
Stonewall	35 403	1.3	77	19.7	-	-	21 805	4.5	(D)	(D)	16 625	1.3
Sutton	21 651	1.3	122	16.7	(D)	(D)	802	4.1	-	-	9 460	.8
Swisher	202 984	1.4	1 504	11.9	17 963	2.7	86 798	1.6	5 560	1.7	267 819	.1
Tarrant	29 094	4.5	2 024	14.0	644	.5	9 156	2.6	-	-	23 027	.9
Taylor	83 266	.6	(D)	(D)	(D)	(D)	55 157	1.8	-	-	72 005	.3
Terrell	4 889	1.0	-	-	-	-	-	-	-	-	6 525	.2
Terry	9 489	3.2	(D)	(D)	-	-	5 421	2.9	(D)	(D)	57 497	.7
Throckmorton	48 851	1.1	340	29.0	-	-	45 412	2.4	-	-	20 057	1.0
Titus	39 381	1.1	693	9.5	38	11.1	-	-	-	-	29 677	.4
Tom Green	65 616	.7	2 463	16.8	(D)	(D)	11 117	3.2	-	-	75 599	.5
Travis	36 162	1.6	3 510	4.7	2 907	12.3	9 003	4.2	-	-	15 550	1.2
Trinity	27 215	2.2	559	14.8	(D)	(D)	-	-	-	-	6 290	2.0
Tyler	13 133	2.0	578	8.8	37	10.8	-	-	-	-	3 413	2.4
Upshur	46 867	1.3	800	18.1	24	17.5	(D)	(D)	-	-	29 294	.8
Upton	6 599	.9	(D)	(D)	-	-	2 033	6.5	-	-	7 276	.9
Uvalde	48 887	1.3	(D)	(D)	22 810	2.0	10 952	3.1	306	11.1	47 380	.6
Vai Verde	12 977	.8	43	15.6	(D)	(D)	(D)	(D)	-	-	15 694	.2
Van Zandt	99 584	1.2	761	10.6	195	9.7	528	26.9	-	-	44 077	.7
Victoria	51 879	1.0	1 202	8.6	29 280	3.0	285	6.4	230	-	21 313	.9
Walker	34 564	2.1	(D)	(D)	(D)	(D)	-	-	-	-	8 478	1.8
Waller	54 453	1.7	10 150	1.9	11 864	3.8	740	13.6	488	12.2	23 946	1.0
Ward	10 877	.3	214	5.9	-	-	-	-	-	-	2 875	.6
Washington	79 457	.7	4 295	6.2	1 433	5.9	230	12.2	-	-	23 439	.8
Webb	109 032	.4	166	13.5	35	6.2	(D)	(D)	-	-	23 526	.4
Wharton	47 844	1.6	323	13.8	58 893	1.5	440	20.0	9 048	1.0	77 581	.5
Wheeler	88 250	.7	215	16.5	-	-	30 983	2.5	-	-	62 070	.3
Wichita	28 041	1.3	755	23.9	-	-	56 033	1.6	-	-	17 244	1.4
Wilbarger	48 105	1.0	(D)	(D)	-	-	80 813	1.6	(D)	(D)	30 318	1.1
Willacy	4 629	5.7	(D)	(D)	7 353	6.6	(D)	(D)	-	-	48 205	.7
Williamson	70 351	1.0	2 597	5.6	10 765	2.7	18 449	3.0	(D)	(D)	45 420	.8
Wilson	91 824	.9	22 857	2.5	12 695	1.7	8 159	6.5	(D)	(D)	56 237	.5
Winkler	6 842	.1	(D)	(D)	-	-	-	-	-	-	1 730	.2
Wise	75 045	1.0	2 107	7.3	(D)	(D)	7 188	9.2	-	-	35 479	.8
Wood	56 438	1.0	1 511	15.1	150	14.6	(D)	(D)	(D)	(D)	35 272	.9
Yoakum	7 658	2.4	58	31.4	(D)	(D)	4 299	7.3	-	-	31 696	1.0
Young	66 552	1.3	1 289	21.3	-	-	38 430	2.0	-	-	26 475	.7
Zapata	30 301	1.7	23	26.2	44	25.4	-	-	-	-	5 912	1.7
Zavala	65 922	.7	(D)	(D)	6 993	1.4	4 080	10.3	-	-	45 951	.4

Geographic area	Selected farm production expenses ¹									
	Livestock and poultry purchased		Commercial fertilizer		Hired farm labor		Petroleum products		Electricity for the farm business	
	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)
Anderson	2 164	11.4	1 492	7.7	1 278	8.0	1 169	5.8	515	6.4
Andrews	741	4.4	358	2.0	1 142	10.6	612	5.5	228	5.5
Angelina	2 182	6.6	460	10.7	439	10.2	393	13.0	92	12.9
Aransas	106	(Z)	43	-	82	(Z)	58	(Z)	16	-
Archer	7 391	4.2	1 124	6.7	2 346	2.2	1 243	4.8	730	3.4
Armstrong	9 850	7.8	327	8.5	997	7.0	1 039	6.6	183	9.6
Atascosa	3 646	5.3	2 044	7.9	3 711	9.0	2 746	6.0	613	8.3
Austin	3 097	13.9	1 474	7.0	1 413	17.9	1 256	6.2	594	19.0
Bailey	31 037	1.4	2 067	8.7	5 575	3.8	3 212	8.3	1 267	6.6
Bandera	635	15.9	95	21.8	378	16.5	402	11.0	125	13.1
Bastrop	3 458	9.9	1 538	7.6	1 178	12.9	1 343	8.5	289	14.2
Baylor	9 901	5.3	1 087	5.6	929	10.7	1 110	6.4	130	12.4
Bee	1 993	5.4	1 592	9.5	1 659	9.3	1 406	7.1	323	7.8
Bell	9 315	8.7	2 773	7.1	2 505	9.2	2 132	6.7	457	7.3
Bexar	4 640	5.8	1 753	8.5	6 153	1.0	2 092	4.3	750	5.3
Blanco	1 301	6.7	293	23.8	1 424	7.1	859	6.6	251	14.6
Borden	7 200	.5	174	7.5	978	5.3	709	5.9	97	6.3
Bosque	4 663	11.5	1 370	11.9	2 834	9.1	1 162	6.2	454	9.6
Bowie	4 602	5.3	1 428	10.4	1 821	4.7	1 253	5.6	375	10.3
Brazoria	1 638	9.2	2 207	4.0	4 701	8.9	2 167	4.3	651	7.0
Brazos	5 409	5.7	1 545	8.7	2 783	3.7	1 336	7.4	429	5.7
Brewster	1 233	.6	(D)	(D)	1 294	1.3	406	1.7	147	1.8
Briscoe	2 643	11.9	620	16.6	1 152	8.8	1 298	8.2	438	12.2
Brooks	2 592	2.4	281	23.1	1 054	4.5	532	10.9	199	10.2
Brown	3 753	6.5	849	11.9	1 585	19.0	1 220	6.3	577	9.8
Burleson	2 037	16.9	1 644	8.1	1 338	9.3	1 247	5.4	233	7.7
Burnet	2 738	16.8	452	19.1	611	19.3	736	7.9	245	9.5
Caldwell	5 044	5.1	1 371	7.1	1 828	5.6	1 040	4.8	410	8.1
Calhoun	737	28.0	1 065	10.9	766	8.1	646	6.2	142	16.5
Callahan	3 954	9.2	813	10.9	722	8.0	1 075	9.2	169	11.5

See footnotes at end of table.

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

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

Geographic area	Selected farm production expenses ¹									
	Livestock and poultry purchased		Commercial fertilizer		Hired farm labor		Petroleum products		Electricity for the farm business	
	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)
Cameron	5 484	6.5	4 458	2.6	11 140	2.2	3 748	4.7	741	6.0
Camp	7 017	2.2	469	15.6	(D)	(D)	826	14.0	(D)	(D)
Carson	29 812	1.8	1 169	12.3	2 499	4.0	2 331	6.4	307	11.1
Cass	1 735	14.7	682	10.9	806	17.3	700	6.9	133	13.4
Castro	144 607	.6	5 093	3.5	10 030	1.9	9 349	2.7	4 197	4.0
Chambers	426	36.1	1 201	8.5	1 477	12.5	1 137	8.0	244	17.7
Cherokee	4 333	7.3	1 596	5.8	10 213	1.0	1 587	4.8	634	3.1
Childress	1 223	32.3	598	13.5	1 647	22.8	1 248	12.6	165	16.3
Clay	7 647	3.6	1 261	8.8	2 170	10.2	1 679	5.3	380	5.4
Cochran	(D)	(D)	1 855	17.2	2 516	7.4	1 974	6.3	868	7.7
Coke	1 339	12.2	39	45.6	592	16.2	469	10.9	126	15.3
Coleman	2 655	20.6	341	11.4	849	20.0	1 395	6.6	172	16.3
Collin	6 629	4.7	2 147	8.0	3 500	4.1	2 288	4.9	565	10.9
Collingsworth	2 937	5.5	853	13.0	1 213	10.2	1 455	7.5	164	10.4
Colorado	3 125	16.5	2 943	7.0	3 351	7.3	2 114	6.1	582	11.1
Comal	511	21.9	261	22.9	344	27.9	360	12.4	103	12.1
Comanche	5 993	11.6	2 519	4.9	4 921	4.9	2 656	4.0	1 535	4.9
Concho	3 243	9.5	270	18.8	1 333	8.1	1 315	6.6	229	9.9
Cooke	8 431	7.6	2 772	13.3	2 460	6.8	2 034	6.6	533	7.1
Coryell	5 765	5.8	1 348	12.2	623	15.0	1 273	9.2	291	14.1
Cottle	1 791	19.6	402	22.4	1 101	11.5	956	9.0	126	12.3
Crane	1 231	-	(D)	(D)	(D)	(D)	76	-	20	-
Crockett	2 625	1.8	(D)	(D)	1 576	1.0	708	1.8	238	3.4
Crosby	1 259	16.4	2 056	7.3	3 507	8.3	3 625	4.5	764	13.0
Culberson	1 345	(Z)	101	(Z)	697	(Z)	293	(Z)	59	(Z)
Dallam	84 438	.6	4 614	4.4	4 832	3.4	6 351	2.1	1 108	2.8
Dallas	1 714	16.5	654	13.0	2 181	13.2	942	7.1	307	7.3
Dawson	407	7.5	2 552	6.5	3 937	6.9	3 995	7.0	(D)	(D)
Deaf Smith	336 592	.3	3 729	4.5	11 009	.6	8 489	2.0	3 966	3.4
Delta	1 636	14.3	542	14.1	662	10.4	697	9.5	78	8.9
Denton	3 528	17.9	2 144	11.3	3 271	22.1	1 925	9.4	669	15.6
De Witt	8 178	4.8	1 247	8.4	1 979	17.2	1 452	5.7	465	6.2
Dickens	1 672	46.6	177	8.1	964	12.9	1 027	14.4	159	12.1
Dimmit	7 987	2.0	440	2.1	1 695	3.7	712	4.4	381	8.6
Donley	20 946	1.3	417	17.3	1 736	5.3	1 022	6.9	255	6.7
Duval	1 144	11.7	936	10.6	1 758	17.3	1 511	6.1	479	8.1
Eastland	2 207	9.1	1 244	10.6	1 035	7.7	1 156	6.1	549	11.2
Ector	1 199	3.3	52	32.4	289	2.2	199	10.3	140	24.0
Edwards	1 782	6.7	17	22.6	1 038	4.9	650	7.1	211	8.7
Ellis	2 151	9.3	2 668	7.5	2 646	2.6	1 941	4.9	462	8.7
El Paso	15 441	.2	1 459	2.5	7 516	2.0	1 974	2.7	822	9.2
Erath	13 693	5.7	1 937	6.1	7 144	3.5	2 482	3.6	2 273	2.5
Falls	17 505	4.5	3 337	7.0	2 339	3.0	1 973	4.3	385	6.9
Fannin	2 485	13.2	2 479	5.7	1 611	10.8	1 987	5.9	295	7.6
Fayette	8 904	14.6	2 374	5.8	2 504	9.4	1 749	5.7	725	5.7
Fisher	3 648	12.9	666	11.2	1 798	12.1	1 848	6.6	888	6.3
Floyd	57 630	.2	3 172	5.0	4 408	2.9	5 829	5.2	2 083	9.3
Foard	1 796	5.9	429	10.4	461	8.7	878	9.7	89	24.4
Fort Bend	2 255	19.7	2 784	5.3	6 804	3.6	2 589	4.2	821	6.6
Franklin	6 557	3.2	701	9.5	1 476	6.0	650	5.9	325	5.1
Freestone	1 672	17.4	1 089	7.5	937	8.8	916	8.7	162	12.1
Frio	28 747	2.4	1 832	7.5	6 602	2.9	2 626	5.9	1 337	15.3
Gaines	1 835	8.4	7 253	2.5	7 116	3.9	6 919	3.1	1 928	2.2
Galveston	351	28.0	309	11.5	549	25.2	395	15.6	164	18.9
Garza	2 436	7.2	174	19.4	1 581	4.7	847	6.9	239	9.6
Gillespie	5 653	4.8	764	11.2	1 494	11.3	1 224	4.2	437	5.3
Glasscock	866	7.0	637	3.5	1 817	4.2	1 397	4.5	1 051	7.7
Goliad	3 536	3.5	621	9.1	1 373	11.5	903	5.8	304	14.9
Gonzales	29 753	1.8	1 455	8.8	7 840	4.8	2 757	4.5	1 340	2.8
Gray	53 560	.9	541	12.3	3 226	4.6	1 488	9.7	500	4.2
Grayson	3 668	18.9	2 914	9.0	1 804	15.2	1 972	7.2	426	7.2
Gregg	233	19.2	218	22.1	287	28.4	197	18.8	71	22.5
Grimes	4 114	10.3	1 668	10.4	1 790	6.2	1 360	6.8	447	6.6
Guadalupe	4 303	3.7	2 007	5.7	1 898	6.8	1 493	5.9	474	7.7
Hale	27 853	2.0	6 525	2.6	8 998	2.5	10 578	2.7	4 105	5.1
Hall	621	14.7	506	13.4	1 840	22.1	1 560	6.9	120	6.4
Hamilton	4 045	15.4	1 113	13.3	987	9.6	1 252	9.8	418	4.9
Hansford	191 250	.5	2 070	.7	6 355	2.3	3 763	2.5	974	1.0
Hardeman	1 320	1.7	822	11.5	918	8.9	1 164	9.6	131	7.8
Hardin	170	28.6	129	18.5	72	18.7	196	14.2	51	26.4
Harris	2 459	7.0	2 023	5.6	5 736	4.6	2 141	6.1	789	6.4
Harrison	1 505	13.7	965	12.4	544	27.0	721	12.2	132	16.6
Hartley	145 749	.2	2 601	8.8	5 893	4.8	3 591	3.5	749	2.1
Haskell	2 755	10.5	1 459	11.6	2 133	8.6	2 782	7.3	371	11.3
Hays	2 103	9.5	410	11.3	551	3.6	529	7.5	152	9.4
Hemphill	23 913	2.0	350	17.8	1 496	4.8	1 019	7.0	261	7.3
Henderson	2 937	13.1	2 001	6.3	2 204	6.2	1 392	6.7	361	12.1
Hidalgo	2 391	17.3	12 856	1.0	33 984	1.8	9 667	1.5	4 278	1.7
Hill	2 465	10.2	3 225	5.3	2 472	6.2	2 314	5.2	397	7.3
Hockley	12 772	4.6	2 741	5.7	5 326	6.6	4 645	3.8	1 123	5.3
Hood	4 259	14.1	735	12.3	2 628	4.3	961	7.8	443	5.3
Hopkins	13 392	4.9	3 126	5.7	6 309	3.1	3 128	3.2	2 093	2.3
Houston	3 005	8.5	2 004	7.0	1 423	6.0	1 450	5.2	331	9.1
Howard	918	6.2	688	7.5	2 494	12.9	1 641	3.6	396	12.1
Hudspeth	1 924	1.7	925	1.9	2 785	2.3	1 430	3.0	492	1.2

See footnotes at end of table.

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

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

Geographic area	Selected farm production expenses ¹									
	Livestock and poultry purchased		Commercial fertilizer		Hired farm labor		Petroleum products		Electricity for the farm business	
	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)
Hunt	2 522	10.6	2 174	14.6	878	9.5	1 571	7.6	319	19.1
Hutchinson	21 176	.7	687	3.7	1 301	4.0	1 364	2.9	266	1.2
Irion	682	8.1	11	19.2	553	3.4	372	4.8	93	14.7
Jack	4 356	5.0	233	18.4	1 007	13.7	787	14.0	193	18.7
Jackson	980	23.2	3 525	6.3	2 853	12.7	2 613	5.9	515	23.1
Jasper	355	30.3	305	18.7	349	17.6	390	12.6	148	17.2
Jeff Davis	2 592	-	(D)	(D)	888	-	400	(Z)	129	-
Jefferson	1 318	49.9	2 135	15.4	1 492	7.6	1 561	10.7	306	14.2
Jim Hogg	1 192	11.9	64	55.3	1 131	3.3	470	12.2	190	5.2
Jim Wells	3 880	4.8	2 102	5.0	3 704	8.2	1 760	6.6	555	5.1
Johnson	12 637	4.5	1 726	9.8	3 777	6.9	1 770	6.1	1 118	4.9
Jones	6 986	12.3	1 158	13.0	2 313	10.2	2 279	5.7	248	12.0
Karnes	2 719	12.2	1 588	11.3	1 324	16.4	1 299	9.2	327	9.8
Kaufman	3 248	8.7	1 297	7.4	1 309	7.7	1 300	6.3	268	12.1
Kendall	1 652	53.1	308	16.2	424	7.0	656	9.1	229	11.8
Kenedy	481	-	19	-	1 143	-	161	-	39	-
Kent	2 756	2.7	119	20.1	462	10.5	507	6.5	96	9.6
Kerr	1 033	14.8	162	19.6	785	8.8	572	9.0	227	8.7
Kimble	1 418	7.8	44	33.8	833	10.1	664	9.3	194	13.3
King	1 310	-	75	-	875	-	272	(Z)	78	-
Kinney	1 901	5.8	35	29.6	1 063	2.0	438	3.3	157	3.1
Kleberg	(D)	(D)	1 110	2.8	2 107	.8	656	6.2	214	7.7
Knox	11 309	1.8	1 829	4.9	1 792	4.4	1 582	5.8	302	4.1
Lamar	3 624	16.2	2 353	9.2	1 364	10.6	1 762	6.1	309	7.1
Lamb	55 971	1.4	4 649	2.9	7 292	4.5	7 723	3.8	2 631	6.9
Lampasas	1 972	12.9	383	11.8	382	13.1	736	7.5	209	10.9
La Salle	8 654	1.6	121	12.0	1 611	7.0	681	14.0	237	9.4
Lavaca	4 128	14.2	2 406	6.6	1 613	6.9	1 762	4.3	683	4.8
Lee	2 856	18.8	1 756	5.9	848	19.1	1 177	7.7	441	4.4
Leon	2 799	22.3	2 426	11.7	1 194	13.5	1 539	7.0	407	13.4
Liberty	2 861	6.6	1 499	5.7	2 200	3.2	1 266	4.6	237	10.2
Limestone	8 102	6.2	1 809	10.3	1 454	7.3	1 239	6.6	189	11.2
Lipscomb	13 183	5.8	538	14.7	1 068	14.1	1 164	7.3	241	21.7
Live Oak	1 195	10.0	1 069	11.2	941	9.7	1 051	8.8	396	10.9
Llano	1 695	20.1	123	20.7	566	13.5	732	14.8	245	18.3
Loving	116	-	(D)	(D)	77	-	40	-	6	-
Lubbock	36 848	1.9	3 399	5.5	10 885	3.8	8 907	2.8	2 502	6.5
Lynn	1 511	5.4	1 607	6.6	3 631	5.4	3 550	4.1	597	8.0
McCulloch	3 432	6.3	418	11.0	1 066	7.2	1 065	7.8	232	6.9
McLennan	7 556	6.2	3 438	8.3	5 015	6.4	2 673	4.5	808	4.6
McMullen	1 196	5.3	96	19.4	605	7.6	521	9.7	111	16.7
Madison	1 786	11.2	927	9.7	(D)	(D)	1 228	6.2	1 325	6.0
Marion	183	18.9	296	37.2	65	13.1	114	14.4	8	14.6
Martin	814	21.4	1 018	8.6	3 516	15.6	2 480	4.5	375	8.7
Mason	7 351	3.5	453	16.3	1 099	9.4	852	14.3	301	9.0
Matagorda	1 250	12.4	3 953	13.1	3 439	7.1	2 481	5.8	397	3.9
Maverick	23 691	1.3	296	3.3	1 964	3.4	663	2.9	267	6.8
Medina	10 865	3.4	2 511	11.0	2 464	7.9	2 504	4.3	716	8.1
Menard	10 427	2.0	61	17.1	503	14.0	501	8.9	118	16.2
Midland	2 651	5.4	345	20.6	1 528	11.7	802	6.8	315	5.6
Milam	5 062	7.8	3 324	4.9	3 297	6.9	2 071	5.4	441	6.5
Mills	6 296	8.3	574	13.7	896	4.1	993	5.6	289	9.3
Mitchell	4 308	12.0	449	36.1	1 711	10.2	1 389	6.9	199	5.2
Montague	7 636	20.3	1 266	8.8	1 059	5.4	1 258	6.7	257	7.3
Montgomery	984	21.7	359	16.1	1 022	7.6	654	10.5	238	10.9
Moore	122 117	.3	2 268	4.5	5 241	3.0	4 188	4.6	876	3.0
Morris	680	20.8	373	12.8	256	32.2	299	11.0	90	23.5
Motley	2 700	7.3	388	41.2	611	8.9	749	8.3	136	9.8
Nacogdoches	21 779	2.9	980	7.8	4 831	1.1	1 803	3.5	1 227	3.7
Navarro	6 337	13.9	1 670	5.6	1 719	8.5	1 872	5.2	264	8.3
Newton	235	18.8	133	17.1	51	11.3	170	12.4	51	21.1
Nolan	13 833	2.0	343	19.1	1 537	6.2	1 410	8.1	298	11.7
Nueces	350	6.0	4 457	2.4	4 068	3.8	2 720	2.6	458	3.3
Ochiltree	59 549	1.7	1 449	11.2	2 919	1.4	3 289	10.1	496	5.4
Oldham	40 122	.3	(D)	(D)	2 022	3.4	1 098	3.6	268	5.0
Orange	172	30.6	54	16.4	359	49.4	259	18.1	55	18.5
Palo Pinto	3 407	7.7	601	13.1	689	10.9	686	9.2	234	15.9
Panola	3 277	3.8	814	11.2	1 167	6.3	894	6.4	350	6.5
Parker	3 558	14.8	1 155	9.8	3 425	7.2	1 656	6.2	603	5.7
Parmer	186 515	.4	5 338	3.4	9 428	1.0	7 862	2.4	2 876	3.2
Pecos	6 854	.4	403	.2	2 828	.3	1 485	1.9	994	1.0
Polk	928	32.8	305	11.4	153	21.8	254	9.6	84	28.5
Potter	10 606	3.5	104	5.2	650	2.8	488	6.0	77	6.9
Presidio	1 546	1.6	(D)	(D)	1 779	.2	652	.9	211	.7
Rains	1 061	9.1	490	9.1	610	4.0	376	8.3	144	9.5
Randall	99 738	1.8	824	9.2	5 530	2.3	2 947	6.6	927	5.4
Reagan	510	8.2	220	9.6	883	5.6	788	5.5	832	13.7
Real	680	10.8	26	18.2	299	11.2	246	7.5	108	6.6
Red River	6 061	4.7	1 312	10.0	1 981	13.3	1 320	10.0	249	8.1
Reeves	32 723	.2	270	13.1	2 538	1.2	942	2.9	503	12.7
Refugio	767	44.5	1 022	6.7	2 120	5.4	860	2.6	196	3.2
Roberts	9 214	1.6	106	24.1	1 243	8.1	607	11.8	192	10.4
Robertson	2 960	10.2	2 176	5.3	2 505	1.5	1 561	5.6	465	4.6
Rockwall	378	7.9	287	8.5	140	18.5	215	10.2	29	30.4
Runnels	8 292	9.7	815	15.6	1 328	11.3	2 309	4.6	329	8.1

See footnotes at end of table.

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

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

Geographic area	Selected farm production expenses ¹									
	Livestock and poultry purchased		Commercial fertilizer		Hired farm labor		Petroleum products		Electricity for the farm business	
	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)
Rusk	2 061	11.0	1 349	8.4	1 436	15.5	1 065	9.6	229	18.7
Sabine	779	44.3	160	21.6	46	25.9	194	20.8	44	31.0
San Augustine	1 361	8.1	234	31.9	710	24.3	308	13.0	106	16.7
San Jacinto	1 220	49.3	246	23.7	125	17.8	287	18.3	68	16.5
San Patricio	(D)	(D)	3 978	2.8	6 274	2.0	2 503	2.7	471	4.3
San Saba	5 643	11.0	811	11.6	1 421	14.9	1 054	5.1	228	9.0
Schleicher	2 758	9.6	50	52.9	1 433	13.7	913	10.9	271	16.2
Scurry	1 643	18.2	449	18.8	1 139	10.3	1 587	8.8	222	9.6
Shackelford	1 411	9.5	189	11.0	666	6.3	487	8.0	94	8.5
Shelby	13 450	2.0	690	14.3	2 775	4.5	1 616	4.4	971	3.4
Sherman	120 842	.7	2 673	6.2	4 513	3.7	4 592	2.5	819	3.4
Smith	1 280	21.3	1 637	8.6	5 198	3.9	1 356	5.5	404	8.0
Somervell	151	17.6	142	18.7	96	22.6	187	15.0	58	24.1
Starr	(D)	(D)	2 360	1.2	5 285	1.4	2 128	3.2	471	7.4
Stephens	1 936	10.9	154	29.4	490	12.1	600	11.9	102	11.0
Sterling	1 438	-	6	-	828	-	296	(Z)	87	-
Stonewall	5 648	2.6	305	13.2	845	7.5	863	7.6	109	12.7
Sutton	1 312	8.1	9	15.2	1 015	3.3	482	3.3	169	4.3
Swisher	146 857	.6	2 704	11.1	7 165	3.5	5 175	8.6	2 734	4.0
Tarrant	6 282	14.2	655	6.2	2 548	13.7	1 059	7.1	491	8.2
Taylor	35 680	1.6	504	9.3	2 019	4.0	1 524	4.6	321	6.0
Terrell	881	-	(D)	(D)	857	-	311	-	99	-
Terry	963	19.1	4 571	4.7	4 225	4.7	4 793	4.2	1 000	10.9
Throckmorton	4 183	8.3	692	9.4	1 260	2.3	1 023	7.5	141	7.9
Titus	1 789	6.3	516	9.6	1 128	11.6	642	7.4	177	5.4
Tom Green	22 770	1.6	760	8.1	3 491	3.4	2 538	3.7	866	5.3
Travis	1 766	10.9	1 399	7.0	917	5.9	1 101	6.8	287	12.5
Trinity	1 205	26.7	617	16.2	242	22.4	452	12.5	79	22.0
Tyler	391	28.5	410	22.1	263	36.1	227	15.4	76	18.2
Upshur	5 354	5.2	903	7.2	1 553	7.8	849	9.7	410	10.3
Upton	470	-	114	(Z)	558	(Z)	348	(Z)	263	(Z)
Uvalde	8 186	3.2	2 851	12.8	4 054	2.5	2 201	8.8	1 179	18.1
Val Verde	1 624	2.0	17	16.5	1 740	1.1	788	2.5	351	2.5
Van Zandt	4 430	14.7	2 973	6.3	4 428	6.9	2 154	4.9	537	5.0
Victoria	1 553	9.1	1 772	6.4	1 494	15.9	1 534	11.2	310	7.7
Walker	1 265	28.4	805	12.9	464	23.0	683	10.1	152	13.4
Waller	1 982	7.2	1 684	6.8	3 305	8.6	1 370	5.8	588	7.2
Ward	996	-	10	-	295	-	121	-	30	-
Washington	2 504	13.0	1 487	9.3	1 955	19.1	1 544	5.8	469	8.2
Webb	5 276	9.0	72	28.0	2 558	3.6	1 046	4.7	445	7.5
Wharton	2 101	10.9	8 397	3.5	8 726	2.8	5 318	2.9	1 242	6.5
Wheeler	36 571	1.3	956	12.0	1 031	4.8	1 342	6.9	248	13.0
Wichita	2 593	19.2	1 073	5.5	1 151	6.9	808	4.2	155	12.3
Wilbarger	1 488	18.1	1 961	9.5	3 340	4.8	2 153	6.9	588	11.3
Willacy	(D)	(D)	2 276	7.7	4 414	3.3	2 112	4.8	(D)	(D)
Williamson	8 417	4.1	4 303	4.0	2 359	8.7	2 431	3.4	515	6.2
Wilson	13 936	1.6	2 635	6.5	3 391	6.1	2 359	3.9	764	5.4
Winkler	(D)	(D)	1	-	142	-	77	-	11	-
Wise	4 138	8.0	1 651	6.5	2 034	7.3	1 699	4.9	722	5.3
Wood	4 019	7.5	1 403	9.8	1 771	14.4	1 311	8.3	512	7.0
Yoakum	718	13.4	2 315	3.7	2 657	9.2	2 184	5.1	537	8.7
Young	7 508	5.1	856	14.0	2 111	6.9	1 465	7.6	323	25.9
Zapata	538	21.9	83	76.5	514	11.6	521	9.1	114	18.7
Zavala	10 434	10.2	1 134	2.8	4 501	7.2	1 522	8.5	1 004	4.0

¹Data are based on a sample of farms.

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

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

Item	Not on mail list		Percent not on mail list	
	Total number	Relative standard error of estimate (percent)	Total percent	Standard error of percent
Farms number ..	26 581	7.7	12.3	.9
Land in farms acres ..	1 820 515	25.6	1.4	.4
Farms by size:				
Less than 50 acres farms ..	19 616	8.5	28.2	2.4
50 acres or more farms ..	6 965	15.4	4.8	.7
Harvested cropland farms ..	7 413	19.2	6.3	1.2
..... acres ..	557 324	66.5	3.3	2.2
Farms by value of sales:				
Less than \$2,500 farms ..	22 349	8.7	27.6	2.4
\$2,500 or more farms ..	4 232	12.7	3.2	.4
\$2,500 to \$9,999 farms ..	3 441	15.1	5.3	.8
\$10,000 or more farms ..	790	11.8	1.1	.1
Market value of agricultural products sold \$1,000 ..	102 877	40.6	1.0	.4
Farms by standard industrial classification:				
Crops (01) farms ..	3 727	15.5	7.7	1.2
Livestock (02) farms ..	22 854	8.5	13.7	1.2
Farms by tenure of operator:				
Full owners farms ..	18 180	8.7	13.6	1.2
Part owners and tenants farms ..	8 400	14.4	10.3	1.5
Operators by principal occupation:				
Farming farms ..	5 026	19.5	5.7	1.1
Other farms ..	21 555	8.1	17.0	1.4
Average age of operator years ..	48.8	(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 further explanation.

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

APPENDIX D D-1

SECTION 4: Were any VEGETABLES, SWEET CORN, MELONS, etc., harvested FOR SALE from "THIS PLACE" in 1987? (Do not include those grown for home use.)

S4

1 ☐ YES — Complete this section

2 ☐ NO — Go to section 5

1. Land from which vegetables were harvested in 1987

Acres		Acres irrigated	
Whole acres	Tenths	Whole acres	Tenths
375	/10	376	/10

2. From the list below, enter the crop name and code for each crop harvested in 1987. If more than one vegetable crop was harvested from the same acres, report acres for each crop. Report crops grown under protection in section 5.

Crop name	Code	Acres harvested	Acres irrigated
Watermelons	473	/10	/10
		/10	/10
		/10	/10
		/10	/10
		/10	/10

If more space is needed, use a separate sheet of paper.

Crop name	Code	Crop name	Code	Crop name	Code
Beans, snap (bush and pole)	381	Kale	425	Radishes	451
Beets	383	Lettuce and romaine	427	Southern peas, green (cowpeas) — blackeyed, purple, hull, etc.	409
Broccoli	386	Mustard greens	431	Spinach	457
Cabbage, head	391	Onions, green	433	Squash	459
Cantaloups and muskmelons	395	Onions, dry	435	Sweet corn	461
Carrots	397	Okra	437	Tomatoes	463
Cauliflower	399	Parsley	439	Turnips	465
Celery	401	Peas, English, green (Do not include green southern peas)	441	Turnip greens	467
Collards	407	Peppers, sweet	443	Other vegetables — Specify	475
Cucumbers and pickles	411	Peppers, hot	445		
Eggplant	415	Pumpkins	449		
Honeydew melons	423				

SECTION 5: Were any NURSERY and GREENHOUSE CROPS, MUSHROOMS, sod, bulbs, flowers, flower seeds, vegetable seeds and plants, vegetables under glass or other protection, GROWN FOR SALE on "THIS PLACE" in 1987?

S5

1 ☐ YES — Complete this section

2 ☐ NO — Go to section 6

1. Nursery and greenhouse crops irrigated in 1987

Area irrigated	
Square feet	Acres
477	478

2. From the list below, enter the crop name and code for each crop grown.

Crop name	Code	Square feet under glass or other protection in 1987	Acres in the open in 1987	Sales in 1987	
			Whole acres	Tenths	
				/10	\$ 00
				/10	\$ 00
				/10	\$ 00

If more space is needed, use a separate sheet of paper.

Crop name	Code	Crop name	Code
Bedding plants (include vegetable plants)	479	Potted flowering plants	710
Bulbs (Exclude bulb flowering plants)	482	Mushrooms	484
Cut flowers and cut florist greens	485	Sod harvested	497
Nursery crops — ornamentals, fruit and nut trees, and vines	488	Vegetable and flower seeds	500
Foliage plants	707	Greenhouse vegetables	503
		Other — Specify	506

SECTION 6: Were any STRAWBERRIES or OTHER BERRIES harvested FOR SALE from "THIS PLACE" in 1987? (Do not include those grown for home use.)

S6

1 ☐ YES — Complete this section

2 ☐ NO — Go to section 7

Crop name	Code	Acres harvested		Quantity harvested	Acres irrigated	
		Whole acres	Tenths		Whole acres	Tenths
Blackberries and dewberries	509		/10	510		/10
Blueberries, tame	512		/10	513		/10
Raspberries	533		/10	534		/10
Strawberries	536		/10	537		/10
Other berries — Specify	539		/10	540		/10

If more space is needed, use a separate sheet of paper.

SECTION 7: Were any OTHER CROPS harvested from "THIS PLACE" in 1987 — small grains, field seeds, potatoes, sugar crops, dry beans, dry peas, or other crops not previously reported? (Report fruit in section 8.)

S7

1 ☐ YES — Complete this section

2 ☐ NO — Go to section 8

For those crops not listed enter the crop name and code from the list below. Report quantity harvested in unit specified with crop name.

Crop name	Code	Acres harvested	Quantity harvested	Acres irrigated
Potatoes, Irish	097	/10	098	099
Sweetpotatoes and yams	100	/10	101	102
Barley for grain	079		080	081
Rye for grain	686		887	888
Dry southern peas (cowpeas)	584		585	586
Sunflower seed	734		735	736
Sugar beets for sugar	719		720	721
Sugarcane for sugar (Report cuttings from October 1986 through April 1987)	722		723	724
Sorghum cut for dry forage or hay (Do not include sorghum-sudan crosses)	698		699	700

If more space is needed, use a separate sheet of paper.

Crop name	Code	Crop name	Code
Alfalfa seed (pounds)	542	Ryegrass seed (pounds)	689
Bahia grass seed (pounds)	551	Sorghum hogged or grazed (report acres only)	701
Corn cut for dry fodder, hogged or grazed (report acres only)	581	Sudangrass seed (pounds)	713
Dry edible beans (hundredweight)	554	Vetch seed (pounds)	755
Guar (pounds)	617	Triticale (bushels)	749
Mungbeans for beans (pounds)	647	Other crops (pounds) — Specify	752
Popcorn (pounds, shelled)	662		

SECTION 8: Was there a combined total of 20 or more FRUIT TREES, including GRAPEVINES, CITRUS, and NUT TREES, on "THIS PLACE" in 1987?

S8

1 ☐ YES — Complete this section

2 ☐ NO — Go to section 9

1. TOTAL ACRES in bearing and nonbearing fruit orchards, citrus or other groves, vineyards, and nut trees on this place. (Do not include abandoned acres.)

Total acres		Acres irrigated	
Whole acres	Tenths	Whole acres	Tenths
121	/10	122	/10

2. For those crops not listed below, enter the name and code from the list at the right for other fruit and nut trees on this place in 1987. Report the requested information for each crop even if not harvested because of low prices, damage from hail, frost, etc.

Crop name	Code	NUMBER OF TREES OR VINES OF —		Acres in trees and vines of all ages	Quantity harvested	Unit of measure			
		Nonbearing age	Bearing age			Mark one			
				Whole acres	Tenths	Lbs.	Tons	Boxes	Lbs. per box
Pecans	339	340		341	/10	342			344
Peaches	225		226	227	/10	228			230
		1		2	/10	3			5
			1	2	/10	3			6
		1		2	/10	3			8
			1	2	/10	3			15
		1		2	/10	3			15

If more space is needed, use a separate sheet of paper.

Noncitrus crop	Code	Citrus crop	Code
Apples	123	Grapefruit	267
Apricots	129	Lemons	279
Avocados	136	Oranges	297
Cherries	047	Tangelos	303
Figs	165	Tangerines	309
Grapes	177	Other citrus — Specify	315
Nectarines	201		
Pears	231		
Persimmons	237		
Plums and prunes	243		
Other noncitrus fruit and nuts — Specify	369		

D-2 APPENDIX D

1987 CENSUS OF AGRICULTURE

SECTION 9: GROSS VALUE of CROPS SOLD from "THIS PLACE" in 1987, BEFORE taxes and expenses (Refer to the INFORMATION SHEET, section 9.)

Report your best estimate of the value for each of the following groups of crops sold from this place in 1987. Include the value of the landlord's and/or contractor's share, estimating if necessary. Include value of Government CCC loans.

	Dollars	Cents
1. Grains, soybeans and other beans sold in 1987	773	00
a. Corn for grain	774	00
b. Wheat	775	00
c. Soybeans	776	00
d. Sorghum for grain	777	00
e. Barley	778	00
f. Oats	779	00
g. Other — rice, rye, dry beans, dry peas, sunflower seed, popcorn, etc.	780	00
2. Cotton and cottonseed	782	00
3. Hay, silage, field seeds, and grass seeds	783	00
4. Vegetables, sweet corn, and melons — (Do not include Irish potatoes and sweetpotatoes, report them in item 6 below.)	784	00
5. Fruits, nuts, and berries — peaches, citrus, pecans, blackberries, etc.	785	00
6. Other crops — Irish potatoes, sweetpotatoes, peanuts, sugar beets, sugarcane, guar, mungbeans, etc. (Do not include nursery and greenhouse crops.)	786	00
Specify		00

SECTION 10: How were the ACRES in this place USED in 1987?

1. Copy acres in "THIS PLACE" from section 1, item 4, page 1 _____ Acres

NOTE: For items 2 to 5 below, if land was used for more than one purpose in 1987 report it in the FIRST land use listed below that applies. For example, report cropland harvested and also pastured, only as "Cropland harvested."

2. **CROPLAND**

a. Cropland harvested — Include all land from which crops were harvested or hay was cut, and all land in orchards, citrus groves, vineyards, and nursery and greenhouse crops. _____

b. Cropland used only for pasture or grazing — Include rotation pasture and grazing land that could have been used for crops without additional improvements. _____

c. Cropland used for cover crops, legumes, and soil-improvement grasses, but NOT harvested and NOT pastured. _____

d. Cropland on which all crops failed — (Exception: Do not report here land in orchards and vineyards on which the crop failed. Such acreage is to be reported in item 2a.) _____

e. Cropland in cultivated summer fallow. _____

f. Cropland idle. _____

3. **Woodland** — Include all woodlots and timber tracts and cutover and deforested land with young timber growth.

a. Woodland pastured. _____

b. Woodland not pastured. _____

4. **Other pastureland and rangeland** — Include any pastureland other than cropland and woodland pasture. _____

5. **All other land** — Land in house lots, ponds, roads, wasteland, etc. — Include any land not reported in items 2 through 4 above. _____

6. **TOTAL ACRES** — Add the acres reported in items 2 through 5 (Should be the same as item 1 above.) _____

SECTION 11: Was any LAND in this place IRRIGATED at any time in 1987?

Irrigated land is all land watered by any artificial or controlled means — sprinklers, furrows or ditches, spreader dikes, etc. Include supplemental, partial, and preplant irrigation.

1. ☐ YES — Complete this section

2. ☐ NO — Go to section 12

1. How many acres of harvested land were irrigated? Include land from which hay was cut and land in bearing and nonbearing fruit and nut crops reported in section 10, item 2a. _____

2. How many acres of pastureland, rangeland, and any other lands not included in item 1 above were irrigated? _____

SECTION 12: Were any ACRES in this place SET ASIDE, DIVERTED, OR IDLED under FEDERAL acreage reduction programs in 1987?

1. ☐ YES — Complete this section

2. ☐ NO — Go to section 13

1. How many acres were set aside (or diverted) under ANNUAL commodity acreage adjustment programs? _____

2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)? _____

SECTION 13: Did you or anyone else have any CATTLE or CALVES on this place in 1987?

1. ☐ YES — Complete this section
2. ☐ NO — Go to section 14

DECEMBER 31, 1987 INVENTORY

1. **CATTLE AND CALVES of all ages** (Total of a, b, c, and d below)

a. **BEEF COWS** — Include beef heifers that had calved. _____

b. **MILK COWS** kept for production of milk or cream for sale or home use — Include dry milk cows and milk heifers that had calved. _____

c. **HEIFERS AND HEIFER CALVES** — (Do not include heifers that had calved.) _____

d. **STEERS, STEER CALVES, BULLS, AND BULL CALVES** _____

INVENTORY	
Number on this place Dec. 31, 1987	
803	Total
804	Beef cows
805	Milk cows
806	Heifers and heifer calves
807	Steers and bulls of all ages

CATTLE AND CALVES SOLD FROM THIS PLACE IN 1987

Include those fed on this place on a contract or custom basis. Also report as sold cattle moved from this place to a feedlot for further feeding.

2. Calves weighing less than 500 pounds _____

3. Cattle, including calves weighing 500 pounds or more _____

a. Of the total cattle sold, how many were FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more and SOLD for SLAUGHTER? _____

Number sold in 1987	Gross value of sales	
	Dollars	Cents
808	809	00
810	811	00
812	813	00

DAIRY PRODUCTS SOLD FROM THIS PLACE IN 1987

4. Gross value of sales of DAIRY PRODUCTS from this place in 1987 — Include milk, cream, butter, etc. _____

DAIRY PRODUCTS	
Gross value of sales	
814	00

SECTION 14: Did you or anyone else have any HOGS or PIGS on this place in 1987?

1. ☐ YES — Complete this section
2. ☐ NO — Go to section 15

DECEMBER 31, 1987 INVENTORY

1. **HOGS and PIGS of all ages** (Total of a and b below)

a. **HOGS and PIGS** used or to be used for BREEDING _____

b. **OTHER HOGS and PIGS** _____

INVENTORY	
Number on this place Dec. 31, 1987	
816	Total
816	Breeding
817	Other

LITTERS FARROWED

2. **LITTERS FARROWED** on this place between —

a. December 1, 1986 and May 31, 1987 _____

b. June 1, 1987 and November 30, 1987 _____

LITTERS FARROWED	
Number of litters	
818	
819	

HOGS AND PIGS SOLD

3. **HOGS and PIGS SOLD** from this place in 1987 _____

4. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding? _____

Number sold in 1987	Gross value of sales	
	Dollars	Cents
820	821	00
822	823	00

SECTION 15: Did you or anyone else have any SHEEP or LAMBS on this place in 1987?

1. ☐ YES — Complete this section
2. ☐ NO — Go to section 16

1. **SHEEP and LAMBS of all ages** _____

a. **EWES** 1 year old or older _____

INVENTORY		NUMBER SOLD	
Number on this place Dec. 31, 1987		in 1987	
824	825		
826			

2. **SHEEP and LAMBS SHORN** _____

SHEEP and LAMBS SHORN	
Number shorn in 1987	Pounds of wool shorn in 1987
827	828

3. What was the gross value of sales of SHEEP, LAMBS, and WOOL from this place in 1987? _____

Gross value of sales	
Dollars	Cents
829	00

SECTION 16: Did you or anyone else have any HORSES, BEES, FISH, GOATS, OTHER LIVESTOCK, or ANIMAL SPECIALTIES on this place in 1987?
1. Horses and ponies of all ages
2. Colonies of bees
3. Milk goats
4. Angora goats
5. Other goats
6. Mules, burros, and donkeys
7. Mink and their pelts
8. Rabbits and their pelts
9. All other livestock and livestock products
10. Fish and other aquaculture products

SECTION 17: Did you or anyone else have any POULTRY, such as CHICKENS, TURKEYS, DUCKS, etc., on this place in 1987?
1. HENS and PULLETS of laying age
2. PULLETS for laying flock replacement
3. BROILERS, fryers, and other meat-type chickens including capons and roasters
4. TURKEYS
5. OTHER POULTRY raised in captivity
6. POULTRY HATCHED on this place in 1987 and placed or sold
7. Incubator egg capacity on December 31, 1987
8. What was the gross value of sales of poultry and poultry products

SECTION 18: GOVERNMENT CCC LOANS
1. Amount received in 1987 from Government CCC loans for
a. Corn
b. Wheat
c. Soybeans
d. Sorghum, barley, and oats
e. Cotton
f. Rice, peanuts, rye, and honey

SECTION 19: Payments received for participation in FEDERAL FARM PROGRAMS in 1987
1. Amount received in cash
2. Value of certificates received

SECTION 20: TYPE OF ORGANIZATION
Mark (X) the one item which best describes the type of organization for this place in 1987.
FAMILY or INDIVIDUAL operation
PARTNERSHIP operation
INCORPORATED UNDER STATE LAW
OTHER, such as estate or trust, prison farm, grazing association, Indian reservation, etc.

SECTION 21: CORPORATE STRUCTURE (for incorporated operations only)
1. Is this a family-held corporation?
2. Are there more than 10 stockholders?

SECTION 22: CHARACTERISTICS AND OCCUPATION OF OPERATOR (Senior partner or person in charge)
1. RESIDENCE
2. PRINCIPAL OCCUPATION
3. OFF-FARM WORK
4. In what YEAR did the operator begin to operate any part of this place?
5. AGE of operator
6. RACE of operator
7. SEX of operator
8. SPANISH ORIGIN

SECTION 23 **PRODUCTION EXPENSES** paid by you and others for this place in 1987

Include your best estimates of expenses paid by you, your landlord, contractors, buyers, and others for production of crops, livestock, and other agricultural products in 1987. (DO NOT INCLUDE expenses connected with performing customwork for others; operation of nonfarm activities, businesses, or services; or household expenses not related to the farm business.)

	None	Dollars	Cents
1. Livestock and poultry purchased — cattle, calves, hogs, pigs, sheep, lambs, goats, horses, chicks, poultry, started pullets, etc.	<input type="checkbox"/>	971 \$	00
2. Feed purchased for livestock and poultry — grain, hay, silage, mixed feeds, concentrates, etc.	<input type="checkbox"/>	972 \$	00
a. Commercially mixed formula feeds purchased — complete, supplement, concentrates, premixes. (Do not include ingredients purchased separately, such as soybean meal, cottonseed meal, and urea.)	<input type="checkbox"/>	973 \$	00
3. Seed cost — for corn, other grains, soybeans, tobacco, cotton, etc. — Include plants and trees purchased.	<input type="checkbox"/>	974 \$	00
4. Commercial fertilizer purchased — all forms, including rock phosphate and gypsum. Include cost of custom applications.	<input type="checkbox"/>	975 \$	00
5. Agricultural chemicals purchased — insecticides, herbicides, fungicides, other pesticides, etc. — Include cost of custom applications. (Do not include lime.)	<input type="checkbox"/>	976 \$	00
6. Gasoline and other petroleum fuel and oil purchased for the farm business —			
a. Gasoline and gasohol	<input type="checkbox"/>	977 \$	00
b. Diesel fuel	<input type="checkbox"/>	978 \$	00
c. Natural gas	<input type="checkbox"/>	979 \$	00
d. LP gas, fuel oil, kerosene, motor oil, grease, etc.	<input type="checkbox"/>	980 \$	00
7. Electricity for the farm business — (Do not include household expenses.)	<input type="checkbox"/>	981 \$	00
8. Hired farm and ranch labor — also include employer's cost for social security, workman's compensation, insurance premiums, pension plans, etc. (See INFORMATION SHEET)	<input type="checkbox"/>	982 \$	00
9. Contract labor — Include expenditures for labor, such as harvesting of fruit, vegetables, berries, etc., performed on a contract basis by a contractor, crew leader, a cooperative, etc.	<input type="checkbox"/>	983 \$	00
10. Repair and maintenance expenses for the upkeep of buildings, motor vehicles, and farm equipment	<input type="checkbox"/>	984 \$	00
11. Customwork, machine hire and rental of machinery and equipment — Include expenditures for use of equipment and for customwork such as grinding and mixing feed, plowing, combining, corn picking, drying, silo filling, spraying, dusting, fertilizing, etc. (Do not include cost of cotton ginning and application of fertilizer and chemicals.)	<input type="checkbox"/>	985 \$	00
12. Interest paid on debts — (See INFORMATION SHEET)			
a. Secured by real estate	<input type="checkbox"/>	986 \$	00
b. Not secured by real estate	<input type="checkbox"/>	987 \$	00
13. Cash rent paid for land and buildings in 1987 — (Do not include grazing fees.)	<input type="checkbox"/>	988 \$	00
14. Property taxes paid — Include farm real estate, machinery, livestock, etc. for the farm business. (Do not include taxes paid by landlords.)	<input type="checkbox"/>	989 \$	00
15. All other production expenses — Include insurance, water, animal health costs, grazing fees, marketing charges, miscellaneous farm supplies, etc. (Do not include depreciation, household expenses, and expenses not associated with the farm business.)	<input type="checkbox"/>	990 \$	00

SECTION 24 **Was any COMMERCIAL FERTILIZER, including ROCK PHOSPHATE, or LIME used on this place during 1987?**

1 ☐ YES — Complete this section 2 ☐ NO — Go to section 25

	None	Acres fertilized
1. Acres of cropland fertilized in 1987 — (Do not include cropland for pastures reported in section 10, item 2b.)	<input type="checkbox"/>	932
2. Acres of pastureland and rangeland fertilized in 1987 reported in section 10, items 2b and 4	<input type="checkbox"/>	933
3. LIME — tons of lime used and acres on which applied — (Do not include land plaster or gypsum or lime for sanitation.)	<input type="checkbox"/>	934 Tons of lime 935 Acres limed

SECTION 25 **Were any INSECTICIDES, HERBICIDES, FUNGICIDES, NEMATOCIDES, OTHER PESTICIDES, or OTHER CHEMICALS used on this place in 1987?**

1 ☐ YES — Complete this section 2 ☐ NO — Go to section 26

Include any materials provided by you, your landlords, or contractors. For each item listed, report acres only once. If multipurpose chemicals were used, report acreage treated for each purpose.

	None	Acres on which used
1. Sprays, dusts, granules, fumigants, etc., (fungicide, herbicide, insecticide, nematocide) to control —		
a. Insects on crops, including hay	<input type="checkbox"/>	936
b. Nematodes in crops	<input type="checkbox"/>	937
c. Diseases in crops and orchards (blights, smuts, rusts, etc.)	<input type="checkbox"/>	938
d. Weeds, grass, or brush in crops and pasture — Include both pre-emergence and post emergence.	<input type="checkbox"/>	939
2. Chemicals for defoliation or for growth control of crops or thinning of fruit	<input type="checkbox"/>	940

SECTION 26 **MACHINERY AND EQUIPMENT on this place on December 31, 1987 — Include only equipment used for agricultural operations in 1986 or 1987.**

• Value of ALL machinery and equipment on this place, December 31, 1987

1. What is the estimated market value of ALL machinery, equipment, and implements usually kept on this place and used for the farm or ranch business? — Include cars, trucks, tractors, combines, plows, disks, harrows, dryers, pumps, motors, irrigation equipment, dairy equipment including milkers and bulk tanks, livestock feeders, grinding and mixing equipment, etc.

Estimated market value	
Dollars	Cents
943 \$	00

• **SELECTED machinery and equipment on this place, December 31, 1987. (Report only if used in 1986 or 1987.)**

	None	Total number on this place on December 31, 1987	Of the total, HOW MANY were manufactured in the last 5 years (1983 - 1987)?
2. Motortrucks — Include pickups	<input type="checkbox"/>	944	945
3. Wheel tractors other than garden tractors and motor tillers —			
a. Less than 40 horsepower (PTO)	<input type="checkbox"/>	946	947
b. 40 horsepower (PTO) or more	<input type="checkbox"/>	948	949
4. Grain and bean combines, all types	<input type="checkbox"/>	950	951
5. Cotton pickers and strippers	<input type="checkbox"/>	952	953
6. Mower conditioners	<input type="checkbox"/>	954	955
7. Pickup balers — Include rectangle and round balers	<input type="checkbox"/>	956	957

SECTION 27 **ESTIMATED CURRENT MARKET VALUE OF LAND and BUILDINGS**

Please give your best ESTIMATE of the CURRENT MARKET VALUE of land and buildings for all acres reported in section 1, items 1, 2, and 3, page 1.

	None	Estimated market value of land and buildings	
		Dollars	Cents
1. All land owned	<input type="checkbox"/>	986 \$	00
2. All land rented or leased FROM OTHERS	<input type="checkbox"/>	987 \$	00
3. All land rented or leased TO OTHERS	<input type="checkbox"/>	988 \$	00

SECTION 28 **INCOME FROM FARM - RELATED SOURCES in 1987**

Report amount received before taxes and expenses.

	None	Farm-related income	
		Dollars	Cents
1. Customwork and other agricultural services provided for farmers and others — plowing, planting, spraying, harvesting, preparation of products for market, etc. (If customwork is a separate business, refer to INFORMATION SHEET, section 28)	<input type="checkbox"/>	992 \$	00
2. Gross cash rent or share payments received from renting out farmland or payments received from lease or sale of allotments — Include payments for livestock pastured on a per-head basis, per-month basis, per-pound basis, etc.	<input type="checkbox"/>	993 \$	00
3. Sales of forest products and Christmas trees — Include maple products, naval stores, firewood, etc.	<input type="checkbox"/>	994 \$	00
4. Recreational services, patronage dividends of cooperatives, and other income which is CLOSELY RELATED to the agricultural operation on this place —	<input type="checkbox"/>	995 \$	00

Specify _____

SECTION 29 **PERSON COMPLETING THIS REPORT — Please print**

Name _____ Date _____

Telephone number _____ Area Code _____ Number _____

INFORMATION SHEET

1987 UNITED STATES CENSUS OF AGRICULTURE

Special Reporting Instructions

1. Who Should Report

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

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

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

3. If You No Longer Farm

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

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

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

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

5. If You Have More Than One Agricultural Operation

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

6. If You Have a Partnership Operation

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

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

7. Landlord's or Contractor's Share

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

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

How to Enter Your Response

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

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

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

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

Instructions For Specified Sections

► Section 1 — ACREAGE IN 1987

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

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

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

Report all land in section 1 in whole acres.

Item 1 — All Land Owned — Report all land owned in 1987 whether held under title, purchase contract or mortgage, homestead law, or as heir or trustee of an undivided estate. Include all land owned by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

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

INCLUDE in item 2:

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

DO NOT INCLUDE in item 2:

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

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

INCLUDE in item 3:

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

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

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

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

► Sections 2 through 8 — CROPS

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

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

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

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

How to Report Crops Harvested

► **Sections 2 and 3** — Report only for the listed crops.

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

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

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

Section 2: Were any of the following CROPS harvested from "THIS PLACE" in 1987?			
	Acres harvested	Quantity harvested	Acres irrigated
1. Cotton	091	092 Bales	093
2. Soybeans for beans	088 40	089 1,550 Bu.	090 40
3. Wheat for grain	073 40	074 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.

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

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

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

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

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

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

► **Section 17 — POULTRY**

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

► **Section 18 — AMOUNT RECEIVED FROM GOVERNMENT CCC LOANS**

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

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

► **Section 19 — FEDERAL PAYMENTS RECEIVED**

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

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

► **Section 20 — TYPE OF ORGANIZATION**

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

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

Partnership Operation — Defined as two or more persons who have 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.

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

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

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

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

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

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

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

Do not include:

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

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

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.



BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47133

If you received more than one report form, enter extra Census File Number(s) here and return extra copies with your completed report.

[illegible]

**CENSUS
USE
ONLY**

035	036	037	038
039	040	041	042

In correspondence pertaining to this report, please refer to your Census File Number (CFN)

87-A0400

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

SECTION 4

- ☐
- Yes
- ☐
- No

- ☐ Yes ☐ No

SECTION 2

None Number of acres

- 043

If the entry is zero please refer to the Information Sheet, section 2.

- 053

• **PART A —** How were the ACRES in this place used in 1987?

- | None | Number of acres |
|------|-----------------|
|------|-----------------|

	None	Irrigated
1. How many acres of harvested land were irrigated? Include		

- 180

[illegible]

- | 7. All vegetables for sale
(Do not include those grown for home use.) | | None | Total acres | Dollars | Cents |
|--|--------------------------|------|-------------|---------|-------|
| | <input type="checkbox"/> | 375 | 1/10 | 783 | 00 |
| Specify kind(s) { | | | 1/10 | | |
| | | | 1/10 | | |
| | | | 1/10 | | |

- | 8. All fruit and nut orchards, vineyards, and berries | | None | Total acres | Quantity harvested | Dollars | Cents |
|---|--------------------------|------|-------------|--------------------|---------|-------|
| | <input type="checkbox"/> | 121 | /10 | | 784 | 00 |
| Specify kind(s) { | | | /10 | Lbs. | | |
| | | | /10 | Lbs. | | |

- 9. Other crops** — For additional crops, enter the crop name and code from the list below. Report quantity harvested in the unit specified with crop name.

Crop name	Code	Acres harvested	Quantity harvested	Gross value of crops sold	
				Dollars	Cents
			1	2	00
			1	2	00

If more space is needed, use a separate sheet of paper.

Crop name	Code	Crop name	Code
Barley for grain (bushels)	079	Oats for grain (bushels)	076
Corn for silage or green chop (tons, green)	070	Sorghum for grain-milo (bushels)	082
Cotton (bales)	091	Other crops (pounds) - <i>Specify</i>	752

From the list below, enter the crop name and code for each crop grown.

Crop name	Code	Square feet under glass or other protection	Acres in the open in 1987		Sales in 1987	
			Whole acres	Tenths	Dollars	Cents
			1	2		00

If more space is needed, use a separate sheet of paper.

Crop name	Code	Crop name	Code
Bedding plants (Include vegetable plants)	479	Potted flowering plants	710
Cut flowers and cut florist greens	485	Foliage plants	707
Nursery crops — ornamentals, fruit and nut trees, etc.	482	Greenhouse vegetables	503
		Other — Society	506

PENALTY FOR FAILURE TO REPORT

CONTINUE ON REVERSE SIDE

SECTION 56

LIVESTOCK and POULTRY

PART A - CATTLE and CALVES

INVENTORY

Number on this

place Dec. 31, 1987

803

Total

804

Beef cows

805

Milk cows

1. CATTLE and CALVES of all ages

a. BEEF COWS - Include beef heifers that had calved.

b. MILK COWS kept for production of milk or cream for sale or home use - Include dry milk cows and milk heifers that had calved.

2. Value of DAIRY PRODUCTS sold in 1987 - Include milk, cream, butter, etc.

CATTLE and CALVES SOLD FROM THIS PLACE IN 1987

Include as sold cattle moved from this place to a feedlot for further feeding.

3. Calves less than 500 pounds

4. Cattle - Include calves 500 pounds or more

a. Of ALL cattle sold, how many were FATTENED on this place on GRAIN or CONCENTRATES for 30 days or more and SOLD for SLAUGHTER?

PART B - HOGS and PIGS

INVENTORY

Number on this

place Dec. 31, 1987

815

Total

816

Breeding

1. HOGS and PIGS of all ages

a. HOGS and PIGS used or to be used for breeding

2. HOGS and PIGS SOLD from this place in 1987

3. Of the hogs and pigs sold, how many were sold as FEEDER PIGS for further feeding?

PART C - SHEEP and LAMBS

INVENTORY

Number on this

place Dec. 31, 1987

824

825

826

1. SHEEP and LAMBS of all ages

a. EWES 1 year old or older

2. SHEEP and LAMBS SHORN in 1987

3. What was the gross value of sales of SHEEP, LAMBS, and WOOL from this place in 1987?

PART D - POULTRY

INVENTORY

Number on this

place Dec. 31, 1987

892

893

894

895

896

898

899

900

901

1. HENS and PULLETS

a. HENS and PULLETS of laying age

b. PULLETS 3 months old or older not yet of laying age for layer replacement

c. PULLETS under 3 months old for layer replacement

2. BROILERS, fryers, other meat-type chickens

3. TURKEYS for slaughter (Do not include breeders.)

4. OTHER POULTRY (Enter name/code from below.)

Poultry name

Code

Name/code

Name/code

Name/code

Turkey hens kept for breeding

Ducks

Geese

Pigeons or squab

Pheasants

Quail

All other poultry - Specify

5. Value of POULTRY and POULTRY PRODUCTS (eggs, etc.) sold from this place in 1987?

PART E - HORSES, OTHER LIVESTOCK, ANIMAL SPECIALTIES, and FISH

INVENTORY

Number on this

place Dec. 31, 1987

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

1. Horses and ponies of all ages

2. Colonies of bees

3. Milk goats

4. Angora goats

5. Other livestock, fish, animal products.

Name

Code

Name/code

Name/code

Name/code

Mules, burros, donkeys

Rabbits and their pelts

Mink and their pelts

Other goats

Rabbits and their pelts

Other livestock, fish, and their products

SECTION 57

GOVERNMENT CCC LOANS

Amount received in 1987 from Government CCC loans. Include regular and reserve loans, even if redeemed or forfeited.

SECTION 58

Payments received for participation in FEDERAL FARM PROGRAMS in 1987 (DO NOT INCLUDE CCC loans.)

1. Amount received in cash

2. Value of certificates received - payment-in-kind (PIK) or commodity certificates

SECTION 59

Acres in this place SET ASIDE, DIVERTED, or IDLED under FEDERAL acreage reduction programs in 1987

1. How many acres were set aside (or diverted) under ANNUAL commodity acreage adjustment programs?

2. How many acres were under the CONSERVATION RESERVE PROGRAM (10 year, CRP)?

SECTION 60

CHARACTERISTICS and OCCUPATION OF OPERATOR (Senior partner or person in charge)

1. RESIDENCE - Does the operator live on this place?

2. PRINCIPAL OCCUPATION - At which occupation did the operator spend the majority (50 percent or more) of his/her worktime in 1987? For partnerships consider all members of the partnership together.

3. OFF-FARM WORK - How many days did the operator work at least 4 hours per day off this place in 1987? - Include work at a nonfarm job, business, or on someone else's farm for pay. (Do not include exchange farmwork.)

4. In what YEAR did the operator begin to operate any part of this place?

5. AGE of operator

6. RACE of operator

7. SEX of operator

8. SPANISH ORIGIN - Is the operator of Spanish origin or descent (Mexican, Puerto Rican, Cuban, or other Spanish)?

SECTION 61

PERSON COMPLETING THIS REPORT - Please print

Name

Date

Telephone number

Area code

Number

FORM 97-A0400 (3-13-87)

Page 2

1987 CENSUS OF AGRICULTURE

APPENDIX D D-11

INFORMATION SHEET **1987 UNITED STATES CENSUS OF AGRICULTURE**

Special Reporting Instructions

1. Who Should Report

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

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

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

3. If You No Longer Farm

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

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

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

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

5. If You Have More Than One Agricultural Operation

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

6. If You Have a Partnership Operation

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

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

7. Landlord's or Contractor's Share

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

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

8. How to Enter Your Response

Enter your replies in the proper spaces, on the correct lines, and in the units requested, i.e., dollars, bushels, tons, etc. Write any explanation outside the answer spaces or on a separate sheet of paper. All dollar figures may be entered in whole dollars. CENTS ARE NOT REQUIRED.

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

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

Instructions For Specified Sections

► **Section 2 — ACREAGE IN 1987**

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

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

Report all land in section 2 in whole acres.

Item 1 — All Land Owned — Report all land owned in 1987 whether held under title, purchased contract or mortgage, homestead law, or as heir or trustee of an undivided estate. Include all land owned by you and/or your spouse, or by the partnership, corporation, or organization for which you are reporting.

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

INCLUDE in item 2:

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

DO NOT INCLUDE in item 2:

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

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

INCLUDE in item 3:

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

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

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

- a. You raised any crops or had any livestock or poultry on "THIS PLACE" in 1987, complete the report.
- b. All your land was operated by a renter or sharecropper, 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:

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

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

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

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

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

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

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

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

► **Section 5 — LIVESTOCK, POULTRY, OTHER LIVESTOCK, OR ANIMAL SPECIALTIES**

Parts A, B, C, and D — LIVESTOCK AND POULTRY

Animals and Poultry to Include in the Report — Report all animals, poultry, and animal specialties on “this place” (section 2, item 4) on December 31, 1987. Include all owned by you and any kept by you for others. Include animals on unfenced lands, National Forest land, district land, cooperative grazing association land, or 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 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.