Appendix C.
Statistical Methodology

THE SCREENING PHASE AND THE MAIL LIST MODEL

The 1997 Census of Agriculture featured a pre-census screening phase that surveyed selected records, by mail or telephone, for presence or absence of agricultural activity. Records selected for screening had a low probability of qualifying as farms. All records responding to the screener and reporting no agricultural activity were removed from the census mail list. Eliminating nonfarm records from the mail list reduced respondent burden and data collection costs.

The screening phase included nearly 500,000 records. Records were selected for screening using one of the following criteria:

1) Records on selected agriculture specialty lists that had no other list source,

2) Records identified by a mail list model as having a low probability of being a farm.

A mail list model predicted the probability that an addressee on the 1997 preliminary census mail list operated a farm. The model defined groups based on combinations of characteristics such as source(s) of the mail list record, expected value of agricultural production, and geographic location. Farm proportions were estimated for these groups by calculating the proportion of 1992 census respondent records that were farms which exhibited the characteristics defined by the group. This proportion, also called the in-scope rate, provided an estimate of the probability that an addressee in the group operated a farm.

Each address record on the 1997 preliminary census mail list was assigned to a model group by matching record characteristics to model group characteristics. Records belonging to the groups with the highest farm probability were those more likely to be farms. Records with a farm probability of approximately 30 percent or less were selected for screening, along with records included on selected agriculture specialty lists as noted above.

Before screening, the preliminary census mail list consisted of 3,314,790 records. There were 478,298 records selected for screening. Of these, 125,570 records were determined to be nonfarms as a result of the screening phase and were removed. These records were removed from the final census mail list. The remaining 3,189,220 records received census report forms.

CENSUS SAMPLE DESIGN

All name and address records on the final census mail list were designated to receive a 1997 Census of Agriculture report form. Two different types of census report forms, sample and nonsample, were used to collect data. Sections 1 through 20 and 28 through 32 of the sample form were identical to sections on the nonsample census form. Sample form sections 21 through 27 contained additional questions on usage of fertilizers and chemicals, farm production expenditures, value of machinery and equipment, value of land and buildings, farm-related income, and hired workers. There were 11 regional versions of the nonsample form and 13 regional versions of the sample form with listings of crops varying by region. These different forms were used to reduce the response burden of the census, while providing reliable information on a large number of data items.

The sample form was mailed to all mail list records in Alaska, Hawaii, and Rhode Island and to a sample of records in other States selected from the final mail list. Mail list records were selected into the sample with certainty if they (1) were expected to have large total value of agricultural products sold or large acreage, (2) were multi-unit operations (i.e., separate farms producing under one company organization), (3) were in a county with less than 100 farms in 1992, or (4) had other special characteristics. Farms with special characteristics were abnormal farms, such as institutional farms, experimental and research farms, and Indian reservations. Mail list records in counties containing 100 to 199 farms in 1992 were systematically sampled at a rate of 1 in 2; records in counties containing 200 to 299 farms in 1992 were systematically sampled at a rate of 1 in 4; and records in counties containing 300 or more farms in 1992 were systematically sampled at a rate of 1 in 6. The remaining mail list records not chosen to receive the sample form received the nonsample census form. This differential sampling scheme was used to provide reliable data for the sample sections of the report form for all counties.

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

The census of agriculture complex edit and imputation system is an automated computerized system that performed the following functions:

- Ensured reasonable relationships between/among data items, values for various sizes of farms, combinations of commodities, and economic interactions.
- Ensured necessary consistencies were present (there were more than 70 distinct consistency requirements).
- Ensured climatic, geographic, legal, and physical constraints were met.

The system performed these and similar functions for more than 900 data key codes for sample records and approximately 850 data key codes for nonsample records.

For the 1997 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. The complex edit and imputation system 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 for that record 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 fixed 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 was 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 Classifications 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.

Each execution of the computer edit consisted of records from only one State sorted by reported State and county. For a given execution of the edit, the stored entries in the various matrices were retained in memory only until a succeeding record having acceptable characteristics for the same 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. An edit run usually consisted of 10,000 or more records.

After the initial computer edit, all keyed reports not meeting the census farm definition were reviewed to ensure that the data had been keyed correctly. Edit referrals were generated for 17 percent of the reports included as farms; they were 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 re-edited.

CENSUS ESTIMATION

The 1997 Census of Agriculture used two types of statistical estimation procedures to account for whole farm nonresponse and sample data collection. The procedures were necessary because some farm operators did not respond to the census despite numerous attempts to contact them, and estimates for certain data items were based on a sample of farm operators rather than a full enumeration.

Whole Farm Nonresponse Estimation

Whole farm nonresponse to the census occurred when a response was never received for a record. If the record was a large farm, as defined by value of production or acreage, or a unique farm operation, intensive telephone or personal followup was conducted during census processing to obtain a response. If these attempts failed, either the NASS survey database, the census historic database, or other more current sources were used to impute data for the record.

During mail list development, the State Statistical Offices (SSOs), in an effort to reduce respondent burden, identified records that participated in multiple NASS surveys and/or situations where there were special reporting relationships between an enumerator and a respondent. These records were referred to as tagged records. The SSOs had full responsibility for the data collection for these records, including imputation of data for the record if a response was not obtainable.

Whole farm nonresponse that occurred within the remaining universe of records was accounted for by a statistical weighting procedure. The weights of the responding farms were adjusted to account for farms that did not respond. The information needed for this process was obtained from the 1997 Nonresponse Survey. The SSOs conducted the nonresponse survey using computer-assisted telephone interviewing (Blaise-CATI) or personal enumeration when telephone contact was not possible. Alaska and Rhode

Island were not eligible for the survey because all nonrespondents were subject to extensive followup. In these cases, data were collected by telephone or other methods. The nonresponse survey collected information from a sample of census nonrespondents to determine farm status and estimate the proportion of farms in the nonresponse universe. The information was then used to estimate the number of nonresponding farm operations by State and county.

The 1997 Nonresponse Survey consisted of a stratified systematic sample of the nonresponse records within each State. The sample was selected near the end of the census follow-up operations. Five strata were defined to be homogeneous on probability of farm status and were based on screener status, total value produced, and list source(s) of the mail list record.

Based on survey results, estimates of the proportion of census nonrespondents operating farms were made for each stratum in the State. The estimates were applied to the total number of census nonrespondents in that stratum, providing a State estimate of the number of census nonrespondents that operated farms. The number of census nonrespondents that operated farms was then derived for each county by stratum. This estimation procedure assumed that the distribution of farms in a stratum by county was 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. Census respondent farms that were designated as large farms or tagged records or as farms that exhibited ''rare'' commodities were ineligible to represent nonrespondent farms and were excluded from the nonresponse weighting procedure. These records were assigned nonresponse weights of 1.0.

The noninteger nonresponse weight is the ratio of the sum of the estimated number of nonrespondent farms from the nonresponse survey and the number of eligible census respondent farms, divided by the number of eligible census respondent farms. Stratum controls were established to ensure that this weight never exceeded 2.0. For the published tabulations of the complete count items, the noninteger nonresponse weight was randomly rounded to an integer weight of either 1 or 2 for each record. For the sample count items, the noninteger nonresponse weight was used in the calculation of the final sample weight.

Table A quantifies the effect of the nonresponse estimation procedure on selected census data items. The percentages in this table are percents of the census values contributed by nonresponse estimation. These indicate the potential for bias in published figures resulting from nonresponse to the census. The estimates provided in this table do not reflect the effect of item nonresponse to individual census data items. The effect of this item nonresponse is discussed in the ''Census Nonsampling Error'' section.

Sample Estimation

Sample data estimation determined the population totals that would have resulted from a complete census for the items in sections 21 through 27 of the sample form. The estimates were obtained from a weighting procedure that assigned a weight to each respondent 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 over all sample records.

Each respondent sample farm was assigned a sample weight for use in producing estimates for all sample items. For example, if the weight given to a sample farm had the value 6, all sample data items reported by that farm were multiplied by 6.

The noninteger sample weight is calculated for each respondent sample farm by multiplying the noninteger nonrespondent weight by the sampling factor. For published tabulations of the sample count items, the noninteger sample weight was randomly rounded to an integer weight for each record. For certainty farms, the sampling factor equals 1 so the sample weight is just equal to the nonresponse weight. Sampling factor calculation for non-certainty farms is described below.

Within a county, the weighting procedure for non-certainty farms was performed in three steps using three variables. The first variable contained eight 1997 total value of agricultural production (TVP) groups. The second and third variables, Standard Industrial Classification (SIC) code and farm acreage, contained two groups. The three sets of groups were:

TVP	SIC	Acres
$1 to $999	01, 08 All crops	1 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 classified the sample records into 32 mutually exclusive initial strata formed by the three variable groups. The total and sample farm counts were expanded to account for nonresponse. Each cell containing sample farm records was assigned an initial sample factor equal to the ratio of the total farm count to the sample farm count. This factor was approximately equal to the inverse of the probability of selecting a farm for the census sample.

The second step in the estimation procedure combined, when necessary, the 32 initial strata to increase the reliability of the weighting procedure. Any stratum that contained less than 10 sample farms or had a factor greater than twice the mail sample rate was collapsed with another stratum. The mail sample rate was either 2, 4, or 6,

depending on whether the county had a 1 in 2, 1 in 4, or 1 in 6 sample selection rate. The collapsing occurred within the 32 initial strata according to a specified collapsing pattern. After the collapsing process was completed, new total farm counts and sample farm counts were computed from each final strata and used to calculate final sample factors.

The final step calculated the noninteger sample weight as the product of the final sampling factor and the noninteger nonresponse weight. As described previously, the noninteger sample weight for each record is randomly rounded to an integer weight which is used in published tabulations. For example, if the final weight for a farm was 7.2, then the record would be rounded to either 7 or 8.

CENSUS SAMPLING ERROR

The sample for the 1997 Census of Agriculture was only one of a large number of possible samples of the same size that could have been selected using the same sample design. In this context, ''sample'' refers to the sample for both the nonresponse survey and the selection of farms to receive sample forms.

The standard error, or sampling error, of a survey estimate is a measure of the variation among the estimates from all possible samples. It is a measure of precision - that is, how well an estimate from a particular sample approximates the true population parameter. The percent relative standard error of an estimate is defined as the standard error of the estimate divided by the value of the estimate, then multiplied by 100. The true population parameter can be defined or conceptualized several different ways. One way is to think of the true population parameter as the average result of all possible samples (selected using a given sample design). A second way is to think of the true population parameter as the figure obtained from carrying out a complete enumeration of the population.

If all possible samples were selected, each of the samples surveyed under essentially the same conditions, and an estimate and its standard error calculated from each sample, then:

1. 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 true population parameter.
2. Approximately 95 percent of the intervals from 1.96 standard errors below the estimate to 1.96 standard errors above the estimate would include the true population parameter.

The following example illustrates the computations necessary to produce a confidence statement for an estimate. Assume that the estimate of number of farms for a State is 94,382 and the relative standard error of the estimate is 0.1 percent (0.001). Multiplying 94,382 by 0.001 yields 94, the standard error; therefore, a 90-percent confidence interval is 94,227 to 94,537 (i.e., 94,382 plus or minus 1.65 x 94). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 90 percent of these intervals would contain the true population parameter. Similarly, a 95-percent confidence interval is 94,198 to 94,566 (i.e., 94,382 plus or minus 1.96 x 94).

Census items were classified as either complete count or sample count items. All farm operators were asked the complete count items. Examples of complete count items were: land in farms, harvested cropland, livestock inventory and sales, crop acreage, quantities harvested and crop sales, land use, irrigation, government loans and payments, conservation acreage, type of organization, and operator characteristics.

Only a sample of farm operators were asked the sample count items. These items appeared only in sections 21 through 27 of the sample form. Sample count items were included under the following section headings: commercial fertilizers, chemicals, production expenses, farm machinery and equipment, value of land and buildings, farm-related income, and hired workers.

Variability in the estimates of complete count items was due only to the nonresponse survey estimation procedure. With regard to the estimates of sample count items, variability was due to both the nonresponse survey estimation procedure and the census sample selection and estimation procedure. Therefore, variability in the sample count item estimates tends to be larger than the variability in the complete count item estimates. Percent relative standard error is a common measure of variability.

Table B provides the generalized reliability estimates of the estimated number of farms in a county that reported complete count and sample count items. The top half of the table shows the percent relative standard errors for estimated number of farms in a county that reported a complete count item, and the bottom half relates to sample count items. These reliability estimates are derived from regression equations. Separate regression equations were used to produce each section of table B. Each regression equation was fit with the estimated number of farms in a county reporting an item as the independent variable and the relative variance of that estimate as the dependent variable for the appropriate counties in the State. To illustrate the use of this table, assume that the estimate of the number of farms reporting hogs and pigs for a particular county, as given in county table 15, is 89. Since hogs and pigs is a complete count data item, refer to the first part of table B and use the estimated percent relative standard error of the estimate from the row with farm count equal to or just less than the estimated number of farms, 89. For this example, the percent relative standard error of the estimate comes from the row for 75 farms reporting. For sample count items, follow the same procedure using the second part of table B. For counties with fewer than 100 farms in the 1992 Census of Agriculture, variability in sample count

item estimates came only from nonresponse survey estimation procedures. The estimated relative standard error for a sample count item in these counties may be obtained using the first part of table B.

Use caution when referring to the ''Sample Count Item'' section of table B to make inferences on counties. Some counties may have been sampled at the rate of 1 in 2 or 1 in 4, but the reliability estimates shown were computed using only data from counties sampled at the rate of 1 in 6. Therefore, the reliability estimates shown would likely be overstated (or conservative) if the county was actually sampled at a higher rate.

Table C presents the percent relative standard error of selected State data items for all farms, and table D presents the percent relative standard error of selected State data items for all farms with sales of $10,000 or more.

Table E presents the standard error for percent change in State totals from 1992 to 1997. 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 1997 and the 1992 estimate for that characteristic to the 1992 estimate. This ratio is multiplied by 100 to obtain the percent change. The standard error of a percent change estimate is the standard error of the ratio multiplied by 100.

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

The farm counts and related estimates displayed in tables A through F relate to unadjusted census totals. These totals are the same as the ''Census total'' displayed in the first column of table G (which will be discussed later in this appendix).

For most of the tables in this appendix, and also many of the tables throughout the publication, there is a footnote that reads ''Data are based on a sample of farms.'' The table entries that this footnote relate to are estimates of totals. To illustrate, suppose that the entry ''other farm-related income'' is shown with this footnote and has some number of farms given. This number given would represent an estimated total number of farms with ''other farm-related income,'' based on the farms that were in the sample. This number should not be interpreted as the number of farms in the sample that have ''other farm-related income.''

CENSUS NONSAMPLING ERROR

The accuracy of the census counts is affected jointly by 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 with instructions, and to minimize processing errors through the use of quality control measures. Nonsampling errors arise from many sources, including respondent or enumerator error or incorrect data keying, editing, or imputing for missing data. These nonsampling errors are further discussed in this section. Nonsampling error due to mail list incompleteness and duplication as well as misclassification of records on the mail list is called coverage error. The section titled ''Coverage Evaluation'' discusses the evaluation studies conducted to measure the extent of this error in the census.

Respondent and Enumerator Error

Incorrect or incomplete responses to the census report form or to the questions posed by an enumerator can introduce error into the census data. To reduce reporting error, detailed instructions for completing the report form were provided to each respondent. Questions were phrased as clearly as possible based on previous tests of the report form. In addition, each respondent's answers were checked for completeness and consistency by the complex edit and imputation system.

Item Nonresponse

As information flowed from data collection to tabulation, various types of item nonresponses were identified on the census report forms. Nonresponse to particular questions on the census report form that logically should have been present created a type of nonsampling error in both complete count and sample count data. In this case, information from a similar farm was used to impute for these missing data items. The resulting data may have been biased if the characteristics of the nonreporting respondents were different from those of reporting respondents for those items.

Processing Error

All phases of processing for each census report form were potential sources for the introduction of nonsampling error. An automated check-in recorded that the report had been returned and excluded from further followup mailings. Approximately one-third of the mail returns were reviewed to resolve questions dealing with multiple reports, respondent remarks, or no reported data. The remaining mail returns (about two-thirds) were batched and sent directly to data keying, along with some of the reviewed cases containing farm data. Keyed records were transmitted, formatted, and run through the complex edit and imputation system. About one-fifth of all forms edited were clerically reviewed for inconsistencies, omissions, or questionable values. While reviewing these forms, the edit review staff determined if the action taken by the computer edit and imputation system was correct. Edited records were tabulated to the county level. Each county was reviewed and, when necessary, individual records were corrected prior to publication.

Developing accurate processing methods is complicated by the complex structure of agriculture. Among the complexities are the many places to be included, the variety of arrangements under which farms are operated, the continuing changes in the relationship of operators to the farm operated, the expiration of leases and the initiation or renewal of leases, the problem of obtaining a complete list of agriculture operations, the difficulty of contacting and identifying some types of contractor/contractee relationships, the operator's absence from the farm during the data collection period, and the operator's opinion that part or all of the operation does not qualify and should not be included in the census. During data collection and processing of the census, all operations underwent a number of quality control checks to ensure as accurate an application as possible.

COVERAGE EVALUATION

Coverage Overview

The primary objectives of the census of agriculture are to accurately count U.S. farms, measure commodity production and sales, and measure demographic characteristics of farm operators. Since 1945, an evaluation of census coverage has been conducted for each census of agriculture to provide estimates of the completeness of census farm counts. These results help to identify problems and focus improvements for future censuses.

According to coverage evaluation results, the past five censuses of agriculture included an average of 92 percent of U.S. farms and 98 percent of agriculture production. Complete enumeration of agricultural operations satisfying the farm definition of $1,000 or more in agricultural sales is complicated by the variety of arrangements under which farms are operated, the multiplicity of names used for an operation, the number of operations in which an operator participates, and the difficulty in classifying those operations just around the $1,000 sales range. In 1997, extensive efforts were made to compile as complete and accurate a mail list as possible, while reducing the duplication and number of nonfarm operations on the list.

The 1997 coverage evaluation program was designed to measure four components of error in the census farm counts. These components include:

1. Undercount due to farms Not on the Mail List (NML)
2. Overcount due to farms Duplicated or enumerated more than once (DUP)
3. Undercount due to farms Incorrectly Classified as nonfarms (ICU)
4. Overcount due to nonfarms Incorrectly Classified as farms (ICO).

The first component, mail list undercount, is by far the largest component of coverage error. Duplication, though occurring far less frequently, can involve larger farms and have a larger impact on acreage and sales estimates. The last two components involve the misclassification of either farms or nonfarms. Misclassification can arise from errors in either reporting or processing the data.

Table G - Coverage Estimates - illustrates the effect of coverage adjustments on census farm counts by demographic characteristics, land in farms, and total value of sales. The coverage total is defined as the net difference between undercounted and overcounted farms. The adjusted census total is the sum of the census total and the net coverage total. The relative standard error is shown for the final census coverage adjusted number. This number will be similar to the relative standard error for the census number, except when the coverage total is negative or close to zero. The coverage adjustment percentage shows the coverage total as a percentage of total census adjusted farms for that characteristic.

The 1997 Census of Agriculture is the first census to include all four components of coverage error in table G. Previous publications only included the coverage error component due to farms not on the mail list (NML). Because of this, caution should be taken when comparing coverage estimates from table G with previous years. In addition, the coverage total is a negative number for some characteristics. This means that the number of farms overcounted for this characteristic was greater than the number of farms undercounted.

Area Frame Surveys to Measure Mail List Undercoverage

Names and addresses collected in the 1997 June Agricultural Survey and 1997 Fall Area Survey were used to estimate the undercount due to farms not on the census mail list (NML). These names were matched to the census mail list, and those that did not match were contacted by telephone or person. The enumerator verified whether the operation had reported in the census, and if not, a census of agriculture report form was completed.

The percentage of farms missed in the census varies considerably by State. In general, farms not on the mail list tended to be small in acreage, production, and sales of agricultural products. Farm operations could be missed for various reasons, including the possibility that the operation started after the mail list was developed, the operation may be so small as not to appear in any agriculture-related source lists, or the operation may have been falsely classified as a nonfarm prior to mailout.

Classification Error Survey to Measure Three Types of Coverage Error

The remaining three types of coverage error were measured by the Classification Error Survey. This survey was used to estimate the number of farms counted more than once (DUP), the number of farms misclassified as nonfarms (ICU), and the number of nonfarms misclassified as farms (ICO). A sample of census of agriculture respondents was selected for reinterview to determine their farm/nonfarm status and collect information to identify

potential duplication. The farm classification from this interview was compared with the classification on the census of agriculture report form. Any differences between these two classifications were reconciled to determine the true farm status. Each operation was reviewed for duplication by matching the additional information received from the reinterview (landlords, tenants, other names, etc.) to the list of census respondents. Potential duplication was reviewed and discrepancies reconciled.

In general, the classification error rate is higher for small farms close to the $1,000 agricultural sales requirement. This rate is also higher for farms with small acreage (less than 49 acres), higher for tenant farms than for full- or part-owner farms, and higher for farms where farming is not the operator's principal occupation.

Coverage Estimation

The adjusted census total, T, is estimated as the census farm count, C, plus undercount and minus overcount adjustments. Undercount includes 1) farms not on the mail list (NML) and 2) farms incorrectly classified as nonfarms (ICU). Overcount includes 3) nonfarms incorrectly classified as farms (ICO) and 4) farms duplicated in the census (DUP). Altogether, the adjusted census total is:

$$T = C + (NML + ICU) - (ICO + DUP).$$

In some States, estimates of misclassification of farms owned by operators having rare demographic characteristics were based on particularly small sample sizes. Where such small sample sizes occurred, a form of small area estimation was used in which data from similar States contributed to that State's estimates. In these cases, the coverage totals are weighted totals of the direct State estimate and the direct estimate from the region. Direct estimates were used to the largest extent possible, based on the amount of survey cases available for the particular item being estimated.

Table A. Percent of State Totals Contributed by Whole Farm Nonresponse Estimation: 1997

Item	Percent of total	Item	Percent of total
Farms ..... number..	11.6	Corn for grain or seed ..... acres..	4.2
Land in farms ..... acres..	5.0	Wheat for grain ..... acres..	3.8
Estimated market value of land and buildings[1] ..... $1,000..	5.9	Livestock and poultry inventory:	
Market value of agricultural products sold ..... $1,000..	4.3	Cattle and calves..... number..	5.6
Harvested cropland..... acres..	4.5	Hogs and pigs ..... number..	1.9
		Layers 20 weeks old and older..... number..	.8

[1]Data are based on a sample of farms.

Table B. Reliability Estimates for Number of Farms in a County Reporting a Complete Count Item or Sample Count Item: 1997

Farms	Relative standard error of estimate (percent)	Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM		SAMPLE COUNT ITEM	
Number of farms reporting:		Number of farms reporting:	
25	5.7	25	41.4
50	3.6	50	28.5
75	2.6	75	22.7
100	1.9	100	19.1
150	.7	150	14.7
200	.6	200	11.8
300	.5	300	8.1
500	.4	500	2.3
750	.3	750	1.9
1,000.....	.3	1,000.....	1.6
1,500.....	.2	1,500.....	1.3
2,000.....	(X)	2,000.....	(X)

Table C. **Reliability Estimates of State Totals for All Farms: 1997**

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

Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS		
Farms ..... number..	24 279	.4
Land in farms ..... acres..	58 607 778	.2
Average size of farm ..... acres..	2 414	.5
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) ..... farms..	24 279	.4
$1,000..	1 870 732	.2
Average per farm ..... dollars..	77 051	.5
Farms by value of sales:		
Less than $1,000 (see text) ..... farms..	3 213	.8
$1,000..	438	1.5
$1,000 to $2,499 ..... farms..	1 783	1.0
$1,000..	3 003	1.0
$2,500 to $4,999 ..... farms..	2 024	.9
$1,000..	7 284	.9
$5,000 to $9,999 ..... farms..	2 308	.8
$1,000..	16 568	.8
$10,000 to $19,999 ..... farms..	2 502	.8
$1,000..	35 723	.8
$20,000 to $24,999 ..... farms..	913	1.2
$1,000..	20 242	1.2
$25,000 to $39,999 ..... farms..	1 857	.9
$1,000..	59 096	.9
$40,000 to $49,999 ..... farms..	982	1.2
$1,000..	43 718	1.2
$50,000 to $99,999 ..... farms..	3 340	.7
$1,000..	240 368	.7
$100,000 to $249,999 ..... farms..	3 696	.4
$1,000..	576 605	.3
$250,000 to $499,999 ..... farms..	1 182	–
$1,000..	394 603	–
$500,000 or more ..... farms..	479	–
$1,000..	473 085	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops ..... farms..	13 106	.4
$1,000..	903 822	.2
Grains ..... farms..	9 007	.4
$1,000..	711 744	.2
Corn for grain ..... farms..	134	2.1
$1,000..	3 101	1.8
Wheat ..... farms..	7 905	.4
$1,000..	569 996	.2
Soybeans ..... farms..	–	–
$1,000..	–	–
Sorghum for grain ..... farms..	–	–
$1,000..	–	–
Barley ..... farms..	3 678	.5
$1,000..	124 151	.3
Oats ..... farms..	475	1.3
$1,000..	2 001	1.4
Other grains ..... farms..	486	.8
$1,000..	12 496	.6
Cotton and cottonseed ..... farms..	–	–
$1,000..	–	–
Tobacco ..... farms..	–	–
$1,000..	–	–
Hay, silage, and field seeds ..... farms..	6 019	.5
$1,000..	91 110	.5
Vegetables, sweet corn, and melons ..... farms..	125	2.6
$1,000..	1 546	3.7
Fruits, nuts, and berries ..... farms..	192	2.3
$1,000..	1 172	4.5
Nursery and greenhouse crops ..... farms..	362	1.7
$1,000..	20 173	1.0
Other crops ..... farms..	610	.9
$1,000..	78 076	.4
Livestock, poultry, and their products ..... farms..	15 962	.4
$1,000..	966 910	.2
Poultry and poultry products ..... farms..	412	1.5
$1,000..	5 638	1.2
Dairy products ..... farms..	210	1.4
$1,000..	36 160	.6
Cattle and calves ..... farms..	14 055	.4
$1,000..	834 544	.3
Hogs and pigs ..... farms..	595	1.3
$1,000..	32 246	.4
Sheep, lambs, and wool ..... farms..	2 033	.7
$1,000..	30 919	.6
Other livestock and livestock products (see text) ..... farms..	2 289	.8
$1,000..	27 403	1.0
Value of agricultural products sold directly to individuals for human consumption (see text) ..... farms..	910	1.1
$1,000..	1 942	1.7

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses ..... farms..	24 274	.4
$1,000..	1 512 749	.5
Average per farm ..... dollars..	62 320	.7
Livestock and poultry purchased ..... farms..	8 433	1.8
$1,000..	153 915	1.4
Feed for livestock and poultry ..... farms..	13 389	1.2
$1,000..	153 271	1.1
Commercially mixed formula feeds ..... farms..	7 240	2.0
$1,000..	49 728	1.5
Seeds, bulbs, plants, and trees ..... farms..	8 768	1.6
$1,000..	34 059	1.6
Commercial fertilizer ..... farms..	12 334	1.3
$1,000..	123 302	1.2
Agricultural chemicals ..... farms..	11 866	1.3
$1,000..	74 449	1.5
Petroleum products ..... farms..	22 336	.6
$1,000..	115 091	.7
Electricity ..... farms..	18 072	.9
$1,000..	29 820	1.1
Hired farm labor ..... farms..	8 186	1.7
$1,000..	109 424	1.3
Contract labor ..... farms..	3 778	2.9
$1,000..	15 447	3.0
Repair and maintenance ..... farms..	20 478	.7
$1,000..	124 799	1.0
Customwork, machine hire, and rental of machinery and equipment ..... farms..	6 916	2.0
$1,000..	42 985	2.1
Interest ..... farms..	12 583	1.3
$1,000..	149 306	1.3
Secured by real estate ..... farms..	8 630	1.7
$1,000..	99 056	1.6
Not secured by real estate ..... farms..	7 484	1.9
$1,000..	50 250	1.7
Cash rent ..... farms..	6 705	2.0
$1,000..	81 423	1.8
Property taxes ..... farms..	22 916	.6
$1,000..	89 911	1.0
All other farm production expenses ..... farms..	22 406	.6
$1,000..	215 547	1.0
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)[1]		
All farms ..... number..	24 275	.4
$1,000..	334 834	2.0
Average per farm ..... dollars..	13 793	2.0
Farms with net gains[2] ..... number..	12 462	1.2
$1,000..	460 425	1.2
Average net gain ..... dollars..	36 946	1.7
Farms with net losses ..... number..	11 813	1.3
$1,000..	125 591	2.1
Average net loss ..... dollars..	10 632	2.5
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments ..... farms..	12 008	.4
$1,000..	177 138	.4
Other farm-related income[1] ..... farms..	7 889	1.9
$1,000..	54 104	4.0
Customwork and other agricultural services ..... farms..	1 902	4.6
$1,000..	15 979	7.6
Gross cash rent or share payments ..... farms..	2 774	4.0
$1,000..	23 598	6.0
Forest products, excluding Christmas trees and maple products ..... farms..	517	9.0
$1,000..	8 003	8.1
Other farm-related income sources ..... farms..	4 812	2.4
$1,000..	6 524	6.6
COMMODITY CREDIT CORPORATION LOANS		
Total ..... farms..	1 825	.6
$1,000..	67 790	.4

See footnotes at end of table.

Table C. **Reliability Estimates of State Totals for All Farms: 1997**—Con.

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

Item		Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	20 669	.4
	acres	17 629 001	.3
Harvested cropland	farms	17 854	.4
	acres	9 399 718	.2
Farms by acres harvested:			
1 to 9 acres	farms	1 139	1.1
	acres	5 230	1.2
10 to 19 acres	farms	1 210	1.1
	acres	16 151	1.1
20 to 29 acres	farms	885	1.2
	acres	20 077	1.2
30 to 49 acres	farms	1 268	1.0
	acres	46 890	1.0
50 to 99 acres	farms	1 625	.9
	acres	112 613	.9
100 to 199 acres	farms	2 362	.8
	acres	328 334	.8
200 to 499 acres	farms	3 729	.7
	acres	1 204 807	.7
500 to 999 acres	farms	2 749	.7
	acres	1 948 383	.7
1,000 acres or more	farms	2 887	–
	acres	5 717 233	–
Cropland:			
Pasture or grazing only	farms	7 269	.5
	acres	1 607 455	.7
Other cropland	farms	9 534	.5
	acres	6 621 828	.4
Total woodland	farms	3 443	.6
	acres	2 059 427	.5
Pastureland and rangeland other than cropland and woodland pastured	farms	13 941	.4
	acres	37 974 463	.2
Land in house lots, ponds, roads, wasteland, etc.	farms	13 662	.4
	acres	944 887	.8
Irrigated land	farms	9 059	.4
	acres	1 994 484	.4
Acres irrigated:			
1 to 9 acres	farms	1 045	1.1
	acres	4 948	1.3
10 to 49 acres	farms	2 489	.7
	acres	62 319	.8
50 to 99 acres	farms	1 225	1.0
	acres	85 706	1.0
100 to 199 acres	farms	1 460	.9
	acres	200 522	.9
200 to 499 acres	farms	1 806	.7
	acres	559 621	.7
500 to 999 acres	farms	718	.8
	acres	483 817	.7
1,000 acres or more	farms	316	.7
	acres	597 551	.6
Harvested cropland irrigated	farms	7 773	.5
	acres	1 539 009	.3
Pasture and other land irrigated	farms	3 866	.6
	acres	455 475	.8
Land under Conservation Reserve or Wetlands Reserve Programs	farms	4 899	.6
	acres	2 635 081	.6
VALUE OF LAND AND BUILDINGS[1]			
Estimated market value of land and buildings	farms	24 275	.4
	$1,000	16 969 895	.8
Average per farm	dollars	699 069	1.0
Average per acre	dollars	294	1.1
VALUE OF MACHINERY AND EQUIPMENT[1]			
Estimated market value of all machinery and equipment	farms	24 258	.4
	$1,000	1 895 934	1.0
Average per farm	dollars	78 157	1.1
AGRICULTURAL CHEMICALS[1]			
Commercial fertilizer	farms	12 284	1.3
	acres on which used	6 419 445	1.1

Item		Total	Relative standard error of estimate (percent)
TENURE OF OPERATOR			
All operators	farms	24 279	.4
	acres	58 607 778	.2
Full owners	farms	12 569	.5
	acres	16 675 050	.3
Part owners	farms	8 826	.4
	acres	36 465 040	.3
Tenants	farms	2 884	.7
	acres	5 467 688	.6
OWNED AND RENTED LAND			
Land owned	farms	21 546	.4
	acres	42 759 041	.3
Owned land in farms	farms	21 395	.4
	acres	38 365 208	.3
Land rented or leased from others	farms	11 798	.4
	acres	20 465 635	.3
	landlords	25 992	.4
Rented or leased land in farms	farms	11 710	.4
	acres	20 242 570	.3
Land rented or leased to others	farms	3 103	.7
	acres	4 616 898	.6
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		17 907	.4
Not on farm operated		4 615	.7
Not reported		1 757	.7
Operators by principal occupation:			
Farming		15 703	.4
Other		8 576	.6
Operators by days worked off farm:			
Any		11 280	.5
200 days or more		6 322	.6
Operators by sex:			
Male	farms	21 951	.4
	acres	55 860 330	.2
Female	farms	2 328	.8
	acres	2 747 448	.9
Average age of operator	years	54.0	.6
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	18 751	.5
	acres	29 000 090	.4
Partnership	farms	2 065	.7
	acres	7 792 104	.4
Corporation:			
Family held	farms	2 998	.5
	acres	16 321 757	.3
More than 10 stockholders	farms	55	1.9
10 or less stockholders	farms	2 943	.6
Other than family held	farms	123	2.5
	acres	588 569	1.2
More than 10 stockholders	farms	12	6.8
10 or less stockholders	farms	111	2.6
Other—cooperative, estate or trust, institutional, etc.	farms	342	1.6
	acres	4 905 258	.2
HIRED FARM LABOR[1]			
Hired workers by days worked:			
150 days or more	farms	4 192	2.2
	workers	8 229	1.7
Less than 150 days	farms	6 959	2.0
	workers	17 729	2.3
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	388	1.5
	number	423	1.5
Hired workers	farms	287	1.0
	number	396	.9
Farm-related deaths:			
Operator and family members	farms	11	–
	number	11	–
Hired workers	farms	–	–
	number	–	–

See footnotes at end of table.

Table C. **Reliability Estimates of State Totals for All Farms: 1997**—Con.

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

Item		Total	Relative standard error of estimate (percent)
FARMS BY SIZE			
1 to 9 acres	farms	898	1.2
	acres	3 951	1.4
10 to 49 acres	farms	3 570	.8
	acres	92 358	.8
50 to 69 acres	farms	813	1.3
	acres	47 015	1.3
70 to 99 acres	farms	946	1.2
	acres	76 859	1.2
100 to 139 acres	farms	852	1.2
	acres	98 255	1.2
140 to 179 acres	farms	964	1.1
	acres	152 572	1.1
180 to 219 acres	farms	570	1.4
	acres	112 736	1.5
220 to 259 acres	farms	494	1.5
	acres	117 722	1.5
260 to 499 acres	farms	2 308	.8
	acres	842 421	.8
500 to 999 acres	farms	2 675	.8
	acres	1 929 279	.8
1,000 to 1,999 acres	farms	3 127	.7
	acres	4 486 797	.8
2,000 acres or more	farms	7 062	.4
	acres	50 647 813	.2
FARMS BY NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM			
Oilseed and grain farming (1111)	farms	6 748	.5
	acres	17 500 685	.3
Vegetable and melon farming (1112)	farms	114	2.3
	acres	55 878	2.7
Fruit and tree nut farming (1113)	farms	195	2.3
	acres	4 519	6.8
Greenhouse, nursery, and floriculture production (1114)	farms	301	1.8
	acres	15 170	3.2
Other crop farming (1119)	farms	3 216	.7
	acres	2 912 313	.7
Beef cattle ranching and farming (112111)	farms	10 373	.5
	acres	34 141 080	.3
Cattle feedlots (112112)	farms	265	1.9
	acres	477 781	1.6
Dairy cattle and milk production (11212)	farms	128	1.7
	acres	131 316	1.0
Hog and pig farming (1122)	farms	163	2.5
	acres	184 454	1.0
Poultry and egg production (1123)	farms	68	3.9
	acres	10 407	7.9
Sheep and goat farming (1124)	farms	726	1.2
	acres	975 711	1.0
Animal aquaculture and other animal production (1125, 1129)	farms	1 982	.9
	acres	2 198 464	.6
LIVESTOCK			
Cattle and calves inventory	farms	14 216	.4
	number	2 618 319	.3
Beef cows	farms	12 902	.5
	number	1 558 921	.3
Milk cows	farms	721	1.1
	number	18 052	.6
Cattle and calves sold	farms	14 055	.4
	number	1 654 014	.3
	$1,000	834 544	.3
Hogs and pigs inventory	farms	627	1.2
	number	177 740	.5
Hogs and pigs sold	farms	595	1.3
	number	293 161	.6
	$1,000	32 246	.4
Sheep and lambs of all ages inventory	farms	1 981	.7
	number	416 012	.6
Sheep and lambs sold	farms	1 999	.7
	number	337 280	.7
Horses and ponies inventory	farms	10 152	.5
	number	71 193	.6
Horses and ponies sold	farms	1 884	.8
	number	7 840	2.0
POULTRY			
Layers and pullets 13 weeks old and older inventory (see text)	farms	1 017	1.0
	number	378 562	.1
Layers 20 weeks old and older	farms	1 001	1.0
	number	294 399	.1
Broilers and other meat-type chickens sold	farms	61	3.3
	number	112 821	.2
SELECTED CROPS HARVESTED			
Corn for grain or seed	farms	180	1.6
	acres	12 925	1.8
	bushels	1 616 456	1.4
Corn for silage or green chop	farms	422	1.0
	acres	36 644	.9
	tons, green	736 202	.8
Wheat for grain	farms	7 932	.4
	acres	5 602 336	.2
	bushels	172 214 482	.2
Barley for grain	farms	4 423	.5
	acres	1 093 414	.3
	bushels	55 236 960	.3
Oats for grain	farms	1 251	.8
	acres	66 331	.8
	bushels	3 501 669	.8
Dry edible beans, excluding dry limas	farms	98	2.3
	acres	7 528	2.0
	cwt	152 454	2.0
Potatoes, excluding sweetpotatoes	farms	134	1.7
	acres	10 504	.7
	cwt	3 382 085	.5
Sugar beets for sugar	farms	415	1.1
	acres	59 345	.6
	tons	1 243 622	.6
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	13 536	.4
	acres	2 528 517	.3
	tons, dry	4 745 596	.3
Alfalfa hay	farms	10 386	.5
	acres	1 556 067	.4
	tons, dry	3 323 933	.4
Vegetables harvested for sale (see text)	farms	125	2.6
	acres	756	3.9
Land in orchards	farms	261	1.9
	acres	1 236	4.4

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains.

Table D. Reliability Estimates of State Totals for Farms With Sales of $10,000 or More: 1997

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

Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS		
Farms ..... number..	14 951	.4
Land in farms ..... acres..	52 310 738	.2
Average size of farm ..... acres..	3 499	.5
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) ..... farms..	14 951	.4
$1,000..	1 843 439	.2
Average per farm ..... dollars..	123 299	.5
Farms by value of sales:		
$10,000 to $19,999 ..... farms..	2 502	.8
$1,000..	35 723	.8
$20,000 to $24,999 ..... farms..	913	1.2
$1,000..	20 242	1.2
$25,000 to $39,999 ..... farms..	1 857	.9
$1,000..	59 096	.9
$40,000 to $49,999 ..... farms..	982	1.2
$1,000..	43 718	1.2
$50,000 to $99,999 ..... farms..	3 340	.7
$1,000..	240 368	.7
$100,000 to $249,999 ..... farms..	3 696	.4
$1,000..	576 605	.3
$250,000 to $499,999 ..... farms..	1 182	–
$1,000..	394 603	–
$500,000 or more ..... farms..	479	–
$1,000..	473 085	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops ..... farms..	10 223	.4
$1,000..	894 914	.2
Grains ..... farms..	8 417	.4
$1,000..	709 400	.2
Corn for grain ..... farms..	132	2.1
$1,000..	(D)	(D)
Wheat ..... farms..	7 466	.4
$1,000..	568 135	.2
Soybeans ..... farms..	–	–
$1,000..	–	–
Sorghum for grain ..... farms..	–	–
$1,000..	–	–
Barley ..... farms..	3 531	.5
$1,000..	123 773	.3
Oats ..... farms..	425	1.3
$1,000..	(D)	(D)
Other grains ..... farms..	479	.8
$1,000..	12 466	.6
Cotton and cottonseed ..... farms..	–	–
$1,000..	–	–
Tobacco ..... farms..	–	–
$1,000..	–	–
Hay, silage, and field seeds ..... farms..	3 911	.6
$1,000..	85 463	.5
Vegetables, sweet corn, and melons ..... farms..	73	3.1
$1,000..	(D)	(D)
Fruits, nuts, and berries ..... farms..	47	4.8
$1,000..	(D)	(D)
Nursery and greenhouse crops ..... farms..	185	2.1
$1,000..	19 723	1.0
Other crops ..... farms..	595	.8
$1,000..	78 018	.4
Livestock, poultry, and their products ..... farms..	11 143	.5
$1,000..	948 525	.2
Poultry and poultry products ..... farms..	181	1.9
$1,000..	5 521	1.3
Dairy products ..... farms..	193	1.3
$1,000..	36 150	.6
Cattle and calves ..... farms..	10 550	.5
$1,000..	820 719	.3
Hogs and pigs ..... farms..	406	1.4
$1,000..	31 975	.4
Sheep, lambs, and wool ..... farms..	1 337	.8
$1,000..	29 277	.6
Other livestock and livestock products (see text) ..... farms..	1 221	.9
$1,000..	24 883	1.1
Value of agricultural products sold directly to individuals for human consumption (see text) ..... farms..	416	1.4
$1,000..	1 466	2.2

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses ..... farms..	15 000	.4
$1,000..	1 452 347	.5
Average per farm ..... dollars..	96 823	.7
Livestock and poultry purchased ..... farms..	6 445	1.8
$1,000..	149 474	1.4
Feed for livestock and poultry ..... farms..	9 472	1.2
$1,000..	147 392	1.1
Commercially mixed formula feeds ..... farms..	5 267	2.1
$1,000..	48 495	1.5
Seeds, bulbs, plants, and trees ..... farms..	7 657	1.5
$1,000..	33 600	1.6
Commercial fertilizer ..... farms..	9 767	1.2
$1,000..	121 548	1.2
Agricultural chemicals ..... farms..	9 409	1.3
$1,000..	73 318	1.5
Petroleum products ..... farms..	14 737	.5
$1,000..	109 378	.7
Electricity ..... farms..	12 852	.8
$1,000..	27 569	1.1
Hired farm labor ..... farms..	6 814	1.6
$1,000..	108 278	1.3
Contract labor ..... farms..	2 991	3.0
$1,000..	14 622	3.1
Repair and maintenance ..... farms..	13 903	.6
$1,000..	116 096	1.0
Customwork, machine hire, and rental of machinery and equipment ..... farms..	5 678	2.0
$1,000..	41 891	2.2
Interest ..... farms..	9 929	1.2
$1,000..	141 376	1.3
Secured by real estate ..... farms..	6 645	1.8
$1,000..	92 209	1.7
Not secured by real estate ..... farms..	6 383	1.9
$1,000..	49 167	1.7
Cash rent ..... farms..	5 836	2.0
$1,000..	80 213	1.8
Property taxes ..... farms..	14 190	.6
$1,000..	78 808	1.0
All other farm production expenses ..... farms..	14 986	.4
$1,000..	208 784	1.0
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)[1]		
All farms ..... number..	15 000	.4
$1,000..	368 740	1.7
Average per farm ..... dollars..	24 583	1.8
Farms with net gains[2] ..... number..	10 407	1.1
$1,000..	456 456	1.2
Average net gain ..... dollars..	43 861	1.6
Farms with net losses ..... number..	4 593	2.5
$1,000..	87 717	2.6
Average net loss ..... dollars..	19 098	3.5
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments ..... farms..	9 522	.4
$1,000..	145 173	.4
Other farm-related income[1] ..... farms..	5 811	2.1
$1,000..	41 536	4.3
Customwork and other agricultural services ..... farms..	1 471	4.9
$1,000..	14 706	8.1
Gross cash rent or share payments ..... farms..	1 553	5.1
$1,000..	14 487	6.4
Forest products, excluding Christmas trees and maple products ..... farms..	327	11.1
$1,000..	6 669	8.1
Other farm-related income sources ..... farms..	4 176	2.5
$1,000..	5 674	3.1
COMMODITY CREDIT CORPORATION LOANS		
Total ..... farms..	1 789	.6
$1,000..	67 676	.4

See footnotes at end of table.

Table D. Reliability Estimates of State Totals for Farms With Sales of $10,000 or More: 1997—Con.

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

Item		Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	13 839	.4
	acres	16 376 158	.3
Harvested cropland	farms	13 284	.4
	acres	9 216 068	.2
Cropland:			
Pasture or grazing only	farms	4 307	.6
	acres	1 359 127	.8
Total woodland	farms	1 894	.7
	acres	1 541 842	.7
Pastureland and rangeland other than cropland and woodland pastured	farms	9 861	.4
	acres	33 622 733	.3
Land in house lots, ponds, roads, wasteland, etc.	farms	8 665	.4
	acres	770 005	.9
Irrigated land	farms	6 035	.5
	acres	1 889 222	.4
Harvested cropland irrigated	farms	5 606	.5
	acres	1 487 676	.3
Pasture and other land irrigated	farms	2 273	.7
	acres	401 546	.8
Land under Conservation Reserve or Wetlands Reserve Programs	farms	3 318	.6
	acres	1 812 593	.6
VALUE OF LAND AND BUILDINGS[1]			
Estimated market value of land and buildings	farms	15 000	.4
	$1,000	14 364 739	.9
Average per farm	dollars	957 649	1.0
Average per acre	dollars	278	1.1
VALUE OF MACHINERY AND EQUIPMENT[1]			
Estimated market value of all machinery and equipment	farms	15 000	.4
	$1,000	1 638 600	1.0
Average per farm	dollars	109 240	1.1
AGRICULTURAL CHEMICALS[1]			
Commercial fertilizer	farms	9 740	1.2
	acres on which used	6 324 604	1.1
TENURE OF OPERATOR			
All operators	farms	14 951	.4
	acres	52 310 738	.2
Full owners	farms	5 587	.6
	acres	13 102 933	.4
Part owners	farms	7 373	.4
	acres	34 499 896	.3
Tenants	farms	1 991	.7
	acres	4 707 909	.6
OWNED AND RENTED LAND			
Land owned	farms	13 057	.4
	acres	36 612 420	.2
Owned land in farms	farms	12 960	.4
	acres	33 970 606	.3
Land rented or leased from others	farms	9 419	.4
	acres	18 520 562	.3
	landlords	22 151	.4
Rented or leased land in farms	farms	9 364	.4
	acres	18 340 132	.3
Land rented or leased to others	farms	1 822	.8
	acres	2 822 244	.7
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		11 434	.5
Not on farm operated		2 498	.7
Not reported		1 019	.7
Operators by principal occupation:			
Farming		12 364	.4
Other		2 587	.7
Operators by days worked off farm:			
Any		5 364	.6
200 days or more		2 243	.8
Operators by sex:			
Male		14 056	.4
Female		895	1.1
Average age of operator	years	53.4	.6

Item		Total	Relative standard error of estimate (percent)
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	10 530	.5
	acres	26 708 744	.4
Partnership	farms	1 548	.7
	acres	7 481 752	.4
Corporation:			
Family held	farms	2 641	.5
	acres	15 980 551	.3
More than 10 stockholders	farms	50	1.6
10 or less stockholders	farms	2 591	.5
Other than family held	farms	81	2.5
	acres	534 888	1.1
More than 10 stockholders	farms	9	4.5
10 or less stockholders	farms	72	2.8
Other—cooperative, estate or trust, institutional, etc.	farms	151	2.4
	acres	1 604 803	.6
HIRED FARM LABOR[1]			
Hired workers by days worked:			
150 days or more	farms	3 824	2.2
	workers	7 840	1.7
Less than 150 days	farms	5 606	2.0
	workers	15 076	2.2
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	310	1.5
	number	343	1.6
Hired workers	farms	268	.9
	number	368	.7
Farm-related deaths:			
Operator and family members	farms	10	–
	number	(D)	(D)
Hired workers	farms	–	–
	number	–	–
FARMS BY SIZE			
1 to 9 acres		188	2.3
10 to 49 acres		425	1.5
50 to 69 acres		168	2.5
70 to 99 acres		283	2.0
100 to 139 acres		321	1.8
140 to 179 acres		387	1.6
180 to 219 acres		284	2.0
220 to 259 acres		274	1.9
260 to 499 acres		1 380	1.0
500 to 999 acres		1 902	.9
1,000 to 1,999 acres		2 615	.8
2,000 acres or more		6 724	.4
FARMS BY NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM			
Oilseed and grain farming (1111)		5 225	.4
Vegetable and melon farming (1112)		87	2.3
Fruit and tree nut farming (1113)		32	6.1
Greenhouse, nursery, and floriculture production (1114)		150	2.3
Other crop farming (1119)		1 489	.8
Beef cattle ranching and farming (112111)		7 020	.5
Cattle feedlots (112112)		133	2.0
Dairy cattle and milk production (11212)		127	1.7
Hog and pig farming (1122)		78	3.3
Poultry and egg production (1123)		19	6.1
Sheep and goat farming (1124)		267	1.8
Animal aquaculture and other animal production (1125, 1129)		324	1.7
LIVESTOCK			
Cattle and calves inventory	farms	10 419	.5
	number	2 542 226	.3
Beef cows	farms	9 799	.5
	number	1 515 010	.3
Milk cows	farms	501	1.1
	number	17 685	.6
Cattle and calves sold	farms	10 550	.5
	number	1 620 743	.3
	$1,000	820 719	.3
Hogs and pigs inventory	farms	428	1.4
	number	174 503	.5
Hogs and pigs sold	farms	406	1.4
	number	290 311	.5
	$1,000	31 975	.4
Sheep and lambs of all ages inventory	farms	1 304	.8
	number	391 443	.6
Sheep and lambs sold	farms	1 325	.8
	number	317 358	.7
Horses and ponies inventory	farms	6 157	.5
	number	45 269	.6
Horses and ponies sold	farms	1 002	1.0
	number	5 859	2.6

See footnotes at end of table.

Table D. **Reliability Estimates of State Totals for Farms With Sales of $10,000 or More: 1997**—Con.

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

Item		Total	Relative standard error of estimate (percent)
POULTRY			
Layers and pullets 13 weeks old and older inventory (see text)	farms	494	1.3
	number	368 322	.1
Layers 20 weeks old and older	farms	489	1.3
	number	285 554	.1
Broilers and other meat-type chickens sold	farms	31	2.9
	number	110 993	.1
SELECTED CROPS HARVESTED			
Corn for grain or seed	farms	177	1.7
	acres	12 901	1.8
	bushels	1 614 575	1.5
Corn for silage or green chop	farms	411	1.0
	acres	36 484	.9
	tons, green	733 712	.8
Wheat for grain	farms	7 489	.4
	acres	5 569 597	.2
	bushels	171 517 584	.2
SELECTED CROPS HARVESTED—Con.			
Barley for grain	farms	4 243	.5
	acres	1 088 260	.3
	bushels	55 037 875	.3
Oats for grain	farms	1 157	.8
	acres	64 760	.8
	bushels	3 425 270	.8
Dry edible beans, excluding dry limas	farms	96	2.3
	acres	(D)	(D)
	cwt	(D)	(D)
Potatoes, excluding sweetpotatoes	farms	123	1.7
	acres	10 497	.7
	cwt	3 381 020	.5
Sugar beets for sugar	farms	409	1.1
	acres	59 293	.6
	tons	1 242 475	.6
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	9 715	.5
	acres	2 385 738	.3
	tons, dry	4 537 219	.3
Alfalfa hay	farms	7 952	.5
	acres	1 478 342	.4
	tons, dry	3 190 842	.4
Vegetables harvested for sale (see text)	farms	73	3.1
	acres	689	4.4
Land in orchards	farms	58	4.2
	acres	537	9.3

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains.

Table E. **Reliability Estimates of Percent Change in State Totals: 1992 to 1997**

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

Item	All farms		Farms with sales of $10,000 or more	
	Percent change from 1992 to 1997	Standard error of estimate	Percent change from 1992 to 1997	Standard error of estimate
Farms ..... number	6.4	1.1	.7	.9
Land in farms ..... acres	–1.7	.3	–2.5	.3
Average size of farm ..... acres	–7.6	1.0	–3.1	1.0
Estimated market value of land and buildings[1]:				
Average per farm ..... dollars	17.5	2.1	23.7	2.4
Average per acre ..... dollars	29.5	2.2	28.7	2.4
Estimated market value of all machinery and equipment[1]:				
Average per farm ..... dollars	17.6	2.0	18.5	2.0
Farms by size:				
1 to 9 acres	–25.7	1.5	–49.6	1.5
10 to 49 acres	27.3	2.2	23.9	3.3
50 to 179 acres	16.8	1.4	12.2	1.8
180 to 499 acres	13.8	1.5	9.7	1.6
500 to 999 acres	6.1	1.8	.3	1.8
1,000 to 1,999 acres	2.9	1.6	.5	1.6
2,000 acres or more	–2.2	.4	–1.7	.4
Total cropland ..... farms	6.3	1.0	1.3	.9
acres	.8	.5	–.1	.5
Harvested cropland ..... farms	4.4	1.0	2.9	.9
acres	14.6	.5	15.0	.5
Irrigated land ..... farms	2.0	1.0	1.4	.9
acres	.8	.6	.9	.5
Market value of agricultural products sold $1,000	8.1	.4	8.1	.4
Average per farm ..... dollars	1.6	1.1	7.4	1.1
Crops, including nursery and greenhouse crops $1,000	30.6	.5	30.9	.5
Livestock, poultry, and their products $1,000	–6.9	.3	–7.1	.3
Farms by value of sales:				
Less than $2,500	22.7	1.7	(X)	(X)
$2,500 to $4,999	14.7	2.1	(X)	(X)
$5,000 to $9,999	8.3	1.9	(X)	(X)
$10,000 to $24,999	.1	1.5	.1	1.4
$25,000 to $49,999	–6.9	1.3	–6.9	1.3
$50,000 to $99,999	–5.3	1.1	–5.3	1.1
$100,000 to $249,999	5.3	.4	5.3	.4
$250,000 to $499,999	20.5	–	20.5	–
$500,000 or more	29.8	–	29.8	–
Total farm production expenses[1] $1,000	8.1	.7	7.8	.7
Average per farm ..... dollars	1.7	1.2	8.2	1.3
Net cash return from agricultural sales for the farm unit (see text)[1] ..... farms	6.4	1.1	–.4	1.0
$1,000	.3	2.4	2.4	2.2
Average per farm ..... dollars	–5.7	2.4	2.8	2.4
Operators by principal occupation:				
Farming	–1.9	.9	–2.7	.8
Other	25.8	1.9	20.2	2.0
Operators by days worked off farm:				
Any	14.7	1.5	9.0	1.5
200 days or more	20.2	1.8	15.9	2.0
Livestock and poultry:				
Cattle and calves inventory ..... farms	2.9	1.0	.7	.9
number	–1.0	.4	–1.3	.4
Beef cows ..... farms	4.3	1.0	2.4	.9
number	3.5	.5	3.3	.4
Milk cows ..... farms	–34.0	1.0	–38.6	.9
number	–19.4	.6	–19.4	.6
Cattle and calves sold ..... farms	3.1	1.0	.6	.9
number	–1.4	.4	–1.8	.4
Hogs and pigs inventory ..... farms	–40.6	1.1	–42.9	1.1
number	–20.3	.6	–19.7	.6
Hogs and pigs sold ..... farms	–42.2	1.1	–45.4	1.1
number	–19.3	.7	–18.4	.6
Sheep and lambs inventory ..... farms	–21.0	1.0	–17.8	1.1
number	–34.4	.5	–32.7	.5
Layers and pullets 13 weeks old and older inventory (see text) ..... farms	–10.6	1.5	–10.2	1.7
number	–40.4	.2	–40.7	.2
Broilers and other meat-type chickens sold ..... farms	29.8	6.8	6.9	5.2
number	137.5	1.2	138.5	1.0
Selected crops harvested:				
Corn for silage or green chop ..... farms	–13.7	1.1	–13.3	1.1
acres	–13.4	.9	–13.2	.9
tons, green	–3.4	.9	–3.2	.9
Wheat for grain ..... farms	–5.5	.9	–3.3	.8
acres	14.7	.5	15.3	.5
bushels	20.5	.5	20.9	.5
Barley for grain ..... farms	–25.9	.6	–24.2	.6
acres	–6.4	.4	–5.7	.4
bushels	16.6	.5	17.1	.5
Oats for grain ..... farms	–21.3	.9	–20.1	.9
acres	–19.6	.8	–18.7	.8
bushels	–21.9	.8	–21.4	.8
Sugar beets for sugar ..... farms	–12.8	1.3	–12.8	1.3
acres	4.1	.8	4.2	.8
tons	–2.5	.7	–2.4	.7
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ..... farms	12.3	1.0	10.2	1.0
acres	27.5	.7	27.7	.7
tons, dry	29.3	.7	29.4	.6

[1]Data are based on a sample of farms.

Table F. **Reliability Estimates for the State and County Totals: 1997**

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

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm[1]		Estimated market value of all machinery and equipment[1]	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	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)
Montana	**24 279**	**.4**	**58 607 778**	**.2**	**2 414**	**.5**	**699 069**	**1.0**	**1 895 934**	**1.0**
Beaverhead	360	.4	1 152 008	.7	3 200	.8	1 359 225	4.2	36 185	6.8
Big Horn	530	.9	2 770 118	.5	5 227	1.0	1 217 122	3.2	45 034	3.0
Blaine	541	.5	2 257 722	.6	4 173	.8	731 066	3.2	50 910	5.2
Broadwater	219	.5	452 744	1.5	2 067	1.6	839 152	8.8	21 164	8.8
Carbon	623	.3	735 910	.9	1 181	1.0	564 474	5.9	37 723	8.6
Carter	305	.3	1 589 372	.7	5 211	.8	591 692	3.5	23 583	4.9
Cascade	903	.4	1 441 261	.8	1 596	.9	619 792	4.4	55 479	3.6
Chouteau	750	.5	2 211 635	.5	2 949	.7	1 015 414	2.4	112 643	5.0
Custer	405	.4	1 897 536	.7	4 685	.8	918 508	4.3	28 309	9.9
Daniels	363	.7	764 544	1.0	2 106	1.2	535 291	6.2	39 853	6.8
Dawson	502	.4	1 417 310	.8	2 823	.9	452 426	7.6	43 957	7.2
Deer Lodge	83	.3	101 657	3.1	1 225	3.1	682 864	4.4	4 336	2.8
Fallon	309	.6	952 884	1.2	3 084	1.4	630 078	13.4	23 063	8.2
Fergus	816	.4	2 248 705	.6	2 756	.8	666 486	3.5	66 835	5.9
Flathead	898	.5	216 303	1.7	241	1.8	450 034	5.3	33 063	5.6
Gallatin	835	.5	759 944	1.3	910	1.4	832 394	5.6	55 283	3.6
Garfield	244	.5	2 163 270	.5	8 866	.7	951 733	2.2	23 259	3.1
Glacier	425	.8	1 622 574	.7	3 818	1.0	842 349	3.3	32 857	5.2
Golden Valley	118	.3	638 049	.8	5 407	.8	1 248 950	4.4	12 865	3.6
Granite	117	.3	268 413	1.9	2 294	1.9	950 890	5.1	8 629	4.3
Hill	692	.4	1 642 562	.6	2 374	.7	709 240	4.0	87 326	4.6
Jefferson	266	.4	364 153	1.6	1 369	1.7	549 020	4.8	7 912	5.5
Judith Basin	329	.5	834 711	1.0	2 537	1.1	712 901	4.3	40 684	9.3
Lake	1 011	.4	596 726	1.0	590	1.1	442 981	5.8	40 166	6.5
Lewis and Clark	502	.5	822 066	1.0	1 638	1.1	709 119	5.1	21 297	9.1
Liberty	280	.2	915 451	.6	3 269	.7	980 837	3.7	47 262	6.4
Lincoln	252	.4	46 167	3.2	183	3.3	461 051	9.6	5 834	10.8
McCone	430	.3	1 312 704	.7	3 053	.8	490 869	6.5	46 968	8.1
Madison	460	.3	1 079 502	.7	2 347	.8	1 108 993	6.4	29 631	4.8
Meagher	142	.3	940 071	.6	6 620	.7	1 987 173	2.7	13 772	1.9
Mineral	71	.6	16 329	4.6	230	4.7	401 063	5.7	1 894	6.2
Missoula	482	.5	262 419	1.9	544	1.9	494 181	8.6	16 559	13.8
Musselshell	232	.4	952 670	1.0	4 106	1.1	851 157	3.2	12 798	4.2
Park	420	.5	749 103	1.4	1 784	1.5	1 177 514	7.5	31 772	8.9
Petroleum	88	.4	541 361	1.1	6 152	1.2	1 110 237	3.5	6 761	6.5
Phillips	489	.4	1 977 811	.6	4 045	.8	683 156	6.0	42 112	6.0
Pondera	474	.4	878 426	.8	1 853	.9	678 198	5.5	57 624	5.5
Powder River	297	.4	1 559 222	.7	5 250	.8	712 457	4.1	21 899	4.9
Powell	230	.4	649 489	1.0	2 824	1.0	1 290 383	18.6	11 844	6.4
Prairie	158	.5	612 906	1.1	3 879	1.2	600 313	4.9	17 074	4.4
Ravalli	1 080	.5	183 647	2.3	170	2.3	393 894	5.2	32 266	8.1
Richland	571	.5	1 214 802	.8	2 127	.9	561 055	4.1	63 736	3.6
Roosevelt	609	.5	1 430 064	.6	2 348	.7	478 914	4.1	68 071	5.5
Rosebud	362	.5	2 680 844	.4	7 406	.6	918 793	3.6	28 307	8.1
Sanders	412	.6	409 965	1.7	995	1.8	463 858	8.9	12 665	11.1
Sheridan	581	.5	1 001 193	.7	1 723	.8	421 906	5.5	54 991	7.9
Silver Bow	116	.5	100 181	2.9	864	3.0	446 220	6.8	3 516	18.3
Stillwater	473	.4	896 739	1.0	1 896	1.1	682 354	6.3	24 819	8.9
Sweet Grass	301	.4	839 345	1.0	2 789	1.1	1 199 451	6.0	22 036	8.3
Teton	557	.3	1 116 889	.6	2 005	.7	686 080	3.9	57 642	5.6
Toole	382	.3	1 090 966	.8	2 856	.8	730 058	7.5	45 408	5.5
Treasure	110	.4	605 527	.8	5 505	.9	904 841	3.5	13 667	4.2
Valley	655	.6	1 786 617	.6	2 728	.9	535 490	3.5	61 973	5.8
Wheatland	144	.3	833 757	.7	5 790	.8	1 224 219	2.6	14 970	3.2
Wibaux	178	.4	475 427	1.3	2 671	1.3	448 708	15.3	12 897	8.2
Yellowstone	1 097	.4	1 526 007	.9	1 391	1.0	524 451	4.6	62 751	3.9

Geographic area	Average market value of all machinery and equipment per farm[1]		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses[1]			
							Total farm production expenses			
							Farms		Value	
	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Montana	**78 157**	**1.1**	**1 870 732**	**.2**	**77 051**	**.5**	**24 274**	**.4**	**1 512 749**	**.5**
Beaverhead	100 514	6.9	55 374	.4	153 815	.5	360	.8	45 645	1.8
Big Horn	84 971	3.1	61 126	.4	115 332	.9	530	1.0	47 933	1.9
Blaine	93 929	5.3	47 937	.6	88 609	.8	542	.7	38 708	2.8
Broadwater	96 639	8.8	20 177	.8	92 131	.9	219	1.1	15 838	5.2
Carbon	60 550	8.6	43 770	.5	70 257	.7	623	.6	37 630	2.7
Carter	77 321	5.0	26 991	.7	88 494	.8	305	.8	20 762	4.0
Cascade	61 439	3.7	66 731	.5	73 899	.7	903	.6	51 062	2.0
Chouteau	150 191	5.0	92 706	.4	123 608	.6	750	.6	73 525	2.1
Custer	69 900	9.9	32 586	.7	80 459	.8	405	.6	28 123	3.9
Daniels	110 090	6.9	25 644	.8	70 645	1.0	363	1.0	20 791	3.8
Dawson	87 563	7.2	34 748	.7	69 220	.8	502	.7	28 695	3.5
Deer Lodge	52 241	4.0	4 217	2.4	50 807	2.4	83	2.9	3 973	2.3
Fallon	74 638	8.3	20 407	1.1	66 042	1.2	309	.9	16 112	6.1
Fergus	81 905	5.9	71 841	.5	88 041	.7	816	.5	52 404	2.6

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Average market value of all machinery and equipment per farm[1]		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses[1]			
							Total farm production expenses			
							Farms		Value	
	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Flathead	36 818	5.7	26 664	.7	29 693	.9	898	.6	22 859	3.0
Gallatin	66 287	3.7	58 905	.6	70 545	.8	834	.6	45 301	2.3
Garfield	95 323	3.3	32 030	.6	131 271	.8	244	1.0	26 092	2.3
Glacier	77 310	5.3	45 418	.5	106 867	.9	425	1.0	34 273	3.4
Golden Valley	109 026	4.1	12 942	.6	109 674	.7	118	2.0	10 829	1.9
Granite	73 748	4.5	9 642	1.3	82 412	1.4	117	1.3	7 882	3.0
Hill	126 194	4.7	67 060	.5	96 907	.6	692	.7	49 508	2.7
Jefferson	29 744	5.6	8 565	1.3	32 198	1.4	266	1.1	8 448	7.7
Judith Basin	123 660	9.4	37 595	.7	114 269	.8	329	.6	28 508	3.6
Lake	39 768	6.6	37 543	.7	37 134	.8	1 010	.6	32 444	5.6
Lewis and Clark	42 425	9.1	18 997	.9	37 842	1.0	502	.8	16 148	3.2
Liberty	168 794	6.4	38 479	.4	137 423	.4	280	.8	33 012	2.4
Lincoln	23 243	10.8	3 675	2.1	14 582	2.2	251	1.2	3 244	11.8
McCone	109 227	8.1	28 698	.6	66 740	.7	430	.6	23 545	4.4
Madison	64 555	4.8	35 456	.6	77 079	.7	459	.7	29 820	2.5
Meagher	96 988	2.4	22 898	.5	161 251	.6	142	1.5	18 312	1.5
Mineral	26 671	7.2	1 183	4.2	16 662	4.3	71	3.7	1 202	4.9
Missoula	34 427	13.8	8 022	1.9	16 643	2.0	481	.8	9 221	11.1
Musselshell	55 164	4.2	17 441	.8	75 176	.9	232	.7	14 743	2.9
Park	75 647	8.9	20 457	1.1	48 708	1.2	420	.7	16 434	4.6
Petroleum	76 830	6.9	9 371	1.3	106 484	1.4	88	2.3	6 860	4.9
Phillips	88 845	6.3	40 865	.6	83 569	.8	489	.8	35 593	3.0
Pondera	121 569	5.5	57 683	.5	121 694	.7	474	.7	45 870	2.5
Powder River	73 735	5.0	27 293	.7	91 895	.8	297	.9	19 922	1.7
Powell	51 497	6.5	17 807	1.0	77 423	1.0	230	1.0	13 454	3.1
Prairie	108 061	4.7	20 292	.7	128 428	.8	158	1.6	17 429	1.9
Ravalli	29 876	8.2	23 949	1.0	22 175	1.1	1 080	.6	21 923	6.5
Richland	111 427	3.6	54 075	.5	94 702	.7	572	.7	41 784	1.9
Roosevelt	111 775	5.5	38 812	.6	63 731	.7	609	.7	30 223	4.9
Rosebud	77 982	8.1	37 666	.4	104 049	.7	363	.8	30 973	3.5
Sanders	30 741	11.1	11 534	1.5	27 995	1.6	412	.9	11 062	9.9
Sheridan	94 649	7.9	35 949	.7	61 874	.8	581	.8	25 573	3.8
Silver Bow	30 309	18.4	3 238	2.9	27 910	2.9	116	2.0	2 149	4.2
Stillwater	52 583	8.9	29 001	.7	61 313	.8	472	.6	24 212	2.1
Sweet Grass	73 453	8.4	21 345	.9	70 914	1.0	300	1.0	19 063	2.9
Teton	103 486	5.6	71 962	.4	129 196	.5	557	.5	59 378	2.4
Toole	118 870	5.5	39 178	.5	102 560	.6	382	.6	30 150	4.3
Treasure	124 248	4.5	17 567	.4	159 700	.6	110	1.8	14 174	1.8
Valley	94 760	5.9	47 785	.6	72 954	.9	655	.8	39 159	3.2
Wheatland	103 961	3.4	22 834	.5	158 571	.6	144	1.3	18 699	1.6
Wibaux	72 453	8.3	10 562	1.2	59 337	1.3	178	1.5	8 605	4.0
Yellowstone	57 202	4.0	96 044	.4	87 551	.6	1 096	.6	83 469	1.2

Geographic area	Farm production expenses[1]—Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Montana	**8 433**	**1.8**	**153 915**	**1.4**	**13 389**	**1.2**	**153 271**	**1.1**	**8 768**	**1.6**	**34 059**	**1.6**
Beaverhead	176	8.5	5 946	4.2	238	5.8	4 505	3.8	87	11.1	454	6.4
Big Horn	237	10.1	4 576	8.6	352	6.6	4 044	6.3	183	10.8	1 043	5.2
Blaine	247	9.9	2 205	18.4	313	7.2	3 799	10.3	218	10.4	851	10.5
Broadwater	95	12.9	683	11.0	101	11.3	891	8.3	87	15.7	411	4.5
Carbon	256	10.7	10 027	4.7	391	6.7	4 828	7.3	230	11.8	567	13.8
Carter	199	7.7	3 261	8.8	265	4.4	3 708	8.0	87	15.2	177	6.4
Cascade	285	10.6	3 250	8.8	513	5.6	4 878	5.1	299	9.3	916	4.4
Chouteau	151	14.3	1 234	10.1	228	9.5	1 904	6.6	425	5.6	2 353	8.4
Custer	211	12.0	5 732	15.9	311	6.8	3 724	5.4	118	12.8	438	14.5
Daniels	45	25.9	299	15.4	104	17.3	642	13.6	111	13.0	584	9.4
Dawson	209	11.1	1 385	10.2	278	8.3	2 237	11.7	201	8.5	859	8.3
Deer Lodge	29	4.6	421	1.8	55	3.5	453	3.9	14	5.5	41	2.3
Fallon	162	10.6	1 903	15.7	200	8.8	2 275	9.3	97	19.4	230	22.7
Fergus	405	7.2	4 119	5.9	549	5.5	5 724	4.8	350	7.4	881	7.5
Flathead	198	13.1	1 059	8.2	383	9.0	1 753	5.7	235	11.4	910	6.2
Gallatin	271	10.6	2 849	9.7	496	6.1	6 932	6.1	284	8.5	1 492	5.2
Garfield	123	8.3	3 879	7.2	180	5.3	3 483	3.8	111	8.7	421	5.1
Glacier	127	14.8	1 720	19.4	277	7.3	4 212	5.0	131	13.4	926	6.5
Golden Valley	55	9.2	1 542	2.8	81	6.3	1 170	5.8	45	9.8	154	3.8
Granite	37	10.2	962	8.1	74	7.0	918	10.3	32	10.0	97	9.3
Hill	117	19.7	939	23.6	212	11.9	2 573	6.5	382	7.0	1 641	8.2
Jefferson	118	10.8	668	8.0	195	6.3	1 281	11.9	83	12.1	188	17.9
Judith Basin	179	12.1	3 127	7.3	228	7.1	2 615	8.6	201	8.0	549	9.1
Lake	335	10.5	2 572	25.2	571	6.4	4 538	12.4	266	11.5	562	8.7

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Farm production expenses[1]—Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Lewis and Clark	146	16.7	1 325	17.3	255	10.7	2 003	7.5	116	17.9	327	5.9
Liberty	47	20.3	962	26.1	81	15.3	3 463	6.3	134	9.2	830	7.0
Lincoln	71	15.3	181	27.5	138	9.7	272	15.1	34	27.2	32	33.5
McCone	130	17.4	928	15.8	210	11.9	1 912	23.9	178	13.6	510	18.3
Madison	188	11.9	4 280	16.1	300	7.0	2 523	6.7	134	12.3	517	9.0
Meagher	70	6.7	1 703	3.0	82	5.6	2 583	4.4	44	8.7	192	4.2
Mineral	16	7.5	107	25.1	38	4.7	230	6.9	13	6.7	21	10.7
Missoula	134	16.8	977	12.8	256	9.8	1 156	20.4	107	20.1	81	22.1
Musselshell	101	10.9	1 327	4.9	158	7.8	1 686	6.6	89	13.8	335	2.1
Park	199	10.2	1 400	7.6	289	7.5	1 922	8.5	150	12.9	215	9.1
Petroleum	51	8.5	800	13.6	64	6.9	1 045	7.0	42	9.7	114	8.6
Phillips	159	11.1	3 661	2.3	265	8.4	3 454	6.6	212	9.9	694	18.2
Pondera	90	16.1	935	6.2	184	12.4	2 919	3.2	310	5.7	1 544	9.2
Powder River	139	7.4	3 452	7.6	223	4.8	2 267	6.3	74	14.7	124	12.9
Powell	88	13.7	775	9.8	116	10.8	1 681	6.4	39	19.0	121	6.4
Prairie	74	8.3	4 895	3.4	104	6.5	1 618	4.5	81	7.3	464	7.1
Ravalli	387	8.8	2 435	19.1	678	5.1	4 380	6.8	182	14.3	507	31.9
Richland	223	10.0	2 988	6.4	301	8.0	3 215	6.6	318	7.4	1 638	5.7
Roosevelt	131	18.2	1 583	17.8	203	12.4	1 585	21.5	169	14.1	636	18.8
Rosebud	174	11.2	5 309	8.5	250	7.3	3 331	2.8	108	13.1	522	9.1
Sanders	106	19.1	947	29.0	208	11.9	1 195	21.9	95	19.4	351	3.7
Sheridan	98	21.6	683	26.6	174	14.1	1 272	16.1	238	10.7	794	13.3
Silver Bow	42	14.9	82	16.9	85	7.1	343	17.5	8	27.3	15	24.0
Stillwater	196	13.3	4 475	4.6	321	8.0	3 545	6.3	150	14.7	367	11.5
Sweet Grass	144	9.1	2 598	6.2	216	4.8	3 357	5.9	113	10.0	183	10.2
Teton	183	13.3	5 208	1.9	272	9.1	3 551	4.8	313	7.1	2 000	9.4
Toole	61	24.8	667	5.3	104	15.9	1 905	9.3	216	9.3	995	10.4
Treasure	59	9.0	2 572	4.2	72	7.6	1 444	5.0	57	8.1	352	2.2
Valley	131	15.2	4 209	6.3	267	9.9	3 292	9.4	286	8.2	839	6.0
Wheatland	74	5.9	2 486	4.0	104	3.2	3 479	4.7	68	7.5	239	3.2
Wibaux	68	9.9	460	10.0	120	6.0	982	5.6	79	8.5	153	11.4
Yellowstone	386	8.6	25 148	1.6	656	5.3	12 574	2.1	334	7.0	1 602	5.3

Geographic area	Farm production expenses[1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Montana	**12 334**	**1.3**	**123 302**	**1.2**	**11 866**	**1.3**	**74 449**	**1.5**	**22 336**	**.6**	**115 091**	**.7**
Beaverhead	208	6.9	2 468	4.0	114	12.0	444	8.4	311	3.0	2 372	4.1
Big Horn	243	8.1	3 625	2.9	272	8.5	2 406	5.1	503	2.7	3 219	3.9
Blaine	215	9.9	2 672	9.0	207	10.1	1 874	10.6	473	2.9	3 095	3.5
Broadwater	132	10.5	1 524	6.8	163	6.7	966	8.6	210	2.6	1 123	8.5
Carbon	332	8.7	1 986	9.0	355	8.0	1 043	12.5	556	3.3	2 250	5.4
Carter	57	16.9	318	5.1	112	15.7	438	14.6	296	2.1	1 699	4.4
Cascade	367	8.1	4 352	5.2	448	7.5	3 143	7.4	804	2.2	3 460	3.5
Chouteau	492	5.1	10 826	4.0	477	5.5	6 952	4.7	689	1.7	6 444	2.4
Custer	166	11.4	1 141	13.9	137	14.6	603	17.2	380	3.1	2 209	5.6
Daniels	181	7.0	2 830	4.4	188	8.1	1 584	7.9	315	3.5	2 034	4.2
Dawson	299	6.1	3 451	7.4	280	7.1	2 294	7.3	455	3.3	2 526	5.1
Deer Lodge	34	4.1	166	3.7	33	4.5	81	2.8	81	2.9	282	4.2
Fallon	141	13.0	628	6.5	143	14.8	331	13.0	276	5.0	1 453	7.1
Fergus	397	6.0	5 194	6.1	489	5.8	2 796	7.6	761	2.1	4 762	3.1
Flathead	451	7.6	2 379	8.7	334	9.1	1 261	8.7	788	3.2	1 520	5.6
Gallatin	485	6.2	3 611	4.8	403	7.4	1 488	7.1	799	1.8	2 942	3.5
Garfield	85	7.1	607	2.8	93	8.9	720	5.7	232	2.8	2 068	3.8
Glacier	198	12.4	3 064	5.9	204	11.7	2 595	8.0	360	4.4	2 864	4.8
Golden Valley	58	6.7	765	5.2	59	8.0	351	5.7	114	2.6	675	3.8
Granite	62	7.3	421	5.1	51	8.9	111	3.7	110	3.0	581	4.4
Hill	429	5.3	6 784	6.7	476	6.0	4 921	5.3	646	2.2	4 477	3.0
Jefferson	71	12.6	290	9.6	94	14.3	72	27.0	248	3.0	741	11.6
Judith Basin	205	7.4	2 818	4.2	218	9.6	1 555	9.7	317	2.8	2 290	5.1
Lake	480	8.0	1 515	6.3	369	9.4	782	6.5	936	2.4	2 042	6.8
Lewis and Clark	206	13.0	812	7.0	210	13.2	372	12.1	480	2.4	1 353	4.7
Liberty	204	5.6	4 821	5.0	199	5.7	2 757	4.8	268	2.1	2 785	3.0
Lincoln	104	13.6	115	34.2	73	18.6	32	23.7	226	3.4	263	14.3
McCone	238	10.4	1 523	7.6	233	10.2	1 295	13.8	392	3.1	2 398	6.8
Madison	214	9.3	1 652	8.4	192	10.4	572	11.4	447	2.0	1 862	4.6
Meagher	65	6.6	1 008	2.6	72	7.6	458	9.7	136	2.5	1 096	1.9
Mineral	33	5.0	58	8.8	26	5.9	23	8.2	63	3.8	88	6.1
Missoula	228	11.3	523	46.5	222	11.8	202	13.8	472	1.9	534	15.3
Musselshell	82	15.2	847	2.1	92	14.2	645	2.7	192	6.2	1 018	3.2
Park	193	10.7	772	11.2	235	9.3	265	12.4	387	3.6	1 201	5.3

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Farm production expenses[1]—Con.											
	Commercial fertilizer				Agricultural chemicals				Petroleum products			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Petroleum	21	12.7	187	5.2	33	11.5	171	9.1	83	3.2	482	7.4
Phillips	235	9.6	1 800	9.2	288	6.4	1 461	14.5	459	2.2	3 277	3.7
Pondera	354	3.9	7 272	4.0	329	5.5	4 274	6.8	461	1.4	3 504	4.3
Powder River	75	12.6	499	11.6	77	12.6	283	17.9	285	2.4	1 711	3.5
Powell	85	13.5	591	8.8	104	11.5	246	16.4	210	4.3	989	4.2
Prairie	105	5.5	793	4.3	109	6.0	674	5.1	157	1.6	1 105	2.8
Ravalli	592	6.6	875	7.0	223	13.3	164	16.7	997	1.8	1 313	6.1
Richland	366	5.3	4 176	3.8	330	6.7	2 652	5.0	527	2.6	3 898	2.5
Roosevelt	297	9.1	3 112	9.6	285	10.2	1 815	10.8	546	3.4	3 164	6.8
Rosebud	151	8.0	1 750	23.0	136	10.2	830	9.1	342	2.7	2 271	4.3
Sanders	178	13.7	392	18.0	88	23.5	185	33.8	386	2.5	685	6.1
Sheridan	332	7.7	2 868	10.0	354	5.8	1 600	12.3	512	3.2	2 858	6.0
Silver Bow	21	18.5	27	6.1	45	14.5	35	25.5	101	4.8	171	13.1
Stillwater	295	7.8	1 433	9.8	315	7.9	691	11.2	451	.6	1 769	5.8
Sweet Grass	125	9.5	556	8.3	161	8.4	316	14.9	290	1.8	1 212	5.1
Teton	417	3.7	8 235	4.6	440	3.9	4 419	7.3	518	2.2	3 956	3.4
Toole	212	9.7	3 294	12.2	266	6.8	3 374	13.1	343	4.0	2 502	5.3
Treasure	59	8.9	875	1.9	57	9.1	486	2.3	104	2.5	868	2.2
Valley	264	7.5	2 868	7.0	378	6.0	2 269	7.9	591	2.0	3 290	4.8
Wheatland	72	6.7	1 250	10.3	63	8.0	650	4.4	136	2.4	1 388	2.8
Wibaux	100	6.4	681	6.7	86	8.2	349	16.7	157	3.8	845	4.7
Yellowstone	623	5.6	4 201	6.0	426	7.5	2 071	5.3	957	2.4	4 107	3.2

Geographic area	Farm production expenses[1]—Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Montana	**18 072**	**.9**	**29 820**	**1.1**	**8 186**	**1.7**	**109 424**	**1.3**	**3 778**	**2.9**	**15 447**	**3.0**
Beaverhead	268	4.8	1 269	3.4	180	6.5	6 430	2.8	59	15.5	407	5.6
Big Horn	423	4.5	689	4.6	176	9.7	3 642	4.3	107	16.5	920	12.2
Blaine	433	4.4	680	4.1	175	10.3	1 982	8.0	75	22.2	337	7.4
Broadwater	195	4.6	729	7.8	80	12.9	1 597	12.3	59	22.2	203	28.6
Carbon	495	4.4	563	6.7	211	10.6	2 353	9.5	117	17.8	502	31.9
Carter	252	5.7	319	4.9	106	15.2	784	8.3	59	22.0	223	13.7
Cascade	577	5.2	871	7.1	269	9.8	4 133	6.9	143	16.1	462	18.2
Chouteau	587	3.8	973	5.3	373	7.1	4 500	7.7	120	13.5	1 129	12.8
Custer	293	8.0	516	6.5	174	13.2	1 818	8.2	33	25.2	136	4.9
Daniels	242	5.5	430	5.3	86	17.9	823	19.4	48	29.0	309	23.1
Dawson	399	4.4	424	6.8	151	11.1	1 699	13.4	69	22.2	274	25.9
Deer Lodge	61	3.3	132	2.5	39	3.6	553	2.8	11	5.1	36	3.3
Fallon	236	7.9	359	8.1	90	18.2	885	19.4	52	26.1	134	21.7
Fergus	648	3.9	762	4.4	223	12.6	2 348	8.2	150	16.3	677	11.0
Flathead	558	5.8	638	4.6	221	13.6	2 695	3.9	106	20.4	317	28.5
Gallatin	617	4.7	1 415	5.4	276	8.6	4 503	6.8	141	16.7	851	11.3
Garfield	189	4.9	518	7.9	103	9.3	1 194	5.5	65	12.2	560	8.9
Glacier	290	7.6	673	8.4	173	10.2	1 905	6.7	100	21.7	314	6.7
Golden Valley	94	4.9	179	5.7	53	7.2	941	3.4	15	19.7	77	8.2
Granite	97	3.7	184	7.7	63	6.6	979	5.5	27	13.3	87	23.1
Hill	475	5.8	728	5.6	260	9.6	2 316	8.3	78	18.7	551	24.4
Jefferson	184	7.0	295	8.1	52	16.8	959	14.7	30	27.4	62	5.5
Judith Basin	278	5.3	413	7.6	117	13.5	1 618	18.1	82	18.7	448	18.5
Lake	714	5.0	715	8.6	360	10.8	3 368	13.2	139	18.1	376	20.5
Lewis and Clark	346	7.0	577	6.6	128	17.0	1 600	5.0	109	17.6	148	16.7
Liberty	252	3.0	581	4.7	144	7.8	2 490	7.6	57	19.7	187	19.7
Lincoln	149	8.7	104	12.5	75	15.9	203	36.0	23	32.1	45	23.8
McCone	295	5.3	483	9.8	88	19.4	1 367	20.1	52	31.2	222	53.0
Madison	331	5.7	842	6.8	202	8.9	3 017	6.7	116	17.0	270	18.2
Meagher	124	3.2	433	2.2	57	6.3	2 103	2.0	35	7.8	221	1.9
Mineral	42	4.4	27	5.4	18	5.8	46	12.7	13	6.7	10	11.6
Missoula	322	7.3	240	17.5	219	12.5	958	37.8	57	26.1	103	11.6
Musselshell	180	7.2	345	4.7	78	9.6	1 174	8.8	27	22.1	99	20.7
Park	322	6.2	354	10.9	132	10.7	1 469	14.0	67	25.9	159	19.0
Petroleum	70	4.8	115	6.6	32	12.7	434	7.6	9	28.5	112	5.1
Phillips	362	5.3	683	8.2	138	13.0	2 224	10.2	67	21.8	207	27.1
Pondera	327	5.7	991	9.1	212	8.8	2 961	9.8	97	17.7	502	26.7
Powder River	235	5.2	334	5.5	130	10.3	1 560	7.4	54	15.3	164	18.8
Powell	158	7.6	438	5.4	76	13.4	2 408	4.2	41	20.4	159	23.4
Prairie	144	2.7	200	3.9	69	8.7	990	5.0	19	17.0	121	25.8
Ravalli	805	4.5	728	7.9	341	9.6	1 880	12.1	140	18.1	274	25.7
Richland	419	5.0	762	3.9	175	8.3	2 986	2.9	99	14.1	343	8.6
Roosevelt	475	4.3	591	6.7	147	8.4	1 362	11.5	73	24.1	274	34.0
Rosebud	296	4.7	514	4.7	179	10.3	2 753	3.6	74	17.1	297	7.9

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Farm production expenses[1]—Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Sanders	305	6.4	283	15.9	144	15.6	1 702	3.8	46	29.5	32	32.3
Sheridan	454	5.5	477	7.1	175	13.2	1 196	17.6	37	34.2	150	38.2
Silver Bow	80	7.8	107	15.4	21	20.0	281	9.6	11	27.8	17	4.7
Stillwater	332	7.0	384	8.2	132	15.9	1 288	6.2	69	24.7	156	13.4
Sweet Grass	229	5.3	329	6.5	110	10.7	1 784	3.7	41	22.2	70	26.0
Teton	443	4.1	1 176	3.6	261	8.5	3 686	9.8	102	19.7	387	15.0
Toole	307	5.4	462	7.5	135	14.2	1 674	8.5	30	31.4	161	22.8
Treasure	92	4.2	333	2.4	32	10.5	1 269	.2	20	16.7	93	14.9
Valley	476	4.3	795	16.7	161	14.3	1 833	11.3	72	22.8	305	13.5
Wheatland	116	2.9	288	2.7	53	7.8	1 709	6.6	37	10.6	95	9.7
Wibaux	147	4.3	177	5.4	40	14.7	313	6.3	11	24.7	13	16.0
Yellowstone	832	3.7	1 189	3.1	271	7.5	4 682	2.7	188	13.2	659	8.1

Geographic area	Farm production expenses[1]—Con.											
	Repair and maintenance				Customwork, machine hire, and rental of machinery and equipment				Interest			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Montana	**20 478**	**.7**	**124 799**	**1.0**	**6 916**	**2.0**	**42 985**	**2.1**	**12 583**	**1.3**	**149 306**	**1.3**
Beaverhead	282	3.4	3 025	1.9	113	11.3	1 118	14.8	184	7.8	5 289	4.1
Big Horn	481	2.6	3 713	6.8	151	7.5	2 131	4.9	335	7.3	4 890	8.1
Blaine	424	4.2	3 290	5.3	198	10.6	1 355	7.4	372	6.3	4 569	5.5
Broadwater	193	5.3	1 334	7.0	78	16.3	454	7.8	117	11.0	1 855	12.6
Carbon	528	3.9	2 324	6.5	204	12.6	401	10.9	298	8.9	3 062	11.6
Carter	281	3.8	1 740	7.4	88	16.1	243	14.4	197	7.0	2 231	8.2
Cascade	738	3.1	4 093	6.2	231	11.4	1 392	5.0	399	6.7	4 710	7.4
Chouteau	696	2.0	6 253	4.0	300	8.6	3 801	7.9	453	6.1	7 618	5.9
Custer	353	4.9	2 322	5.1	117	17.4	478	6.7	238	9.4	2 777	12.7
Daniels	236	7.6	1 979	10.5	74	19.0	482	10.0	163	9.4	1 842	9.8
Dawson	418	4.3	2 874	6.0	204	10.0	1 262	12.5	271	8.9	2 631	8.1
Deer Lodge	76	3.0	363	3.3	16	6.0	28	7.9	39	3.7	517	2.7
Fallon	272	5.8	1 571	11.9	85	20.2	249	16.2	181	12.1	1 501	12.2
Fergus	764	2.3	4 469	5.5	214	12.3	1 048	8.0	532	5.4	5 788	8.8
Flathead	743	3.7	1 981	5.9	252	11.9	698	18.1	321	10.0	2 499	9.1
Gallatin	710	3.3	3 766	3.8	221	12.8	773	8.9	391	7.8	3 613	7.8
Garfield	211	3.9	1 704	4.6	82	9.5	655	5.4	169	5.5	3 512	5.9
Glacier	361	5.0	2 841	6.3	121	15.9	1 592	4.9	205	11.2	2 262	3.6
Golden Valley	104	4.4	947	3.8	38	11.4	286	3.1	68	7.5	1 327	3.4
Granite	97	3.7	524	4.8	16	16.1	53	9.0	49	8.1	818	10.9
Hill	635	2.7	4 648	4.4	202	7.7	2 052	20.9	346	7.6	4 574	8.5
Jefferson	208	6.3	703	10.7	49	21.3	157	21.3	94	12.6	1 028	13.2
Judith Basin	308	3.9	2 113	6.5	127	15.6	830	11.4	232	7.5	3 040	10.4
Lake	837	3.7	2 952	7.2	156	17.3	457	22.9	461	7.6	3 920	8.1
Lewis and Clark	461	3.2	1 489	8.9	107	24.8	253	30.3	214	13.4	1 429	12.7
Liberty	248	3.8	2 723	7.6	97	13.1	1 249	9.2	171	5.2	2 124	7.1
Lincoln	170	7.3	455	20.3	20	29.7	18	29.9	53	18.3	243	22.3
McCone	360	3.8	2 063	6.8	129	17.0	489	11.1	258	9.4	3 404	15.5
Madison	365	5.2	2 668	4.6	100	17.1	529	7.1	212	10.3	3 202	5.2
Meagher	117	3.6	1 372	1.8	45	8.6	404	2.6	72	6.8	2 498	2.6
Mineral	51	4.0	121	6.3	9	8.2	26	16.1	18	6.6	110	4.1
Missoula	405	5.0	948	18.5	86	23.5	113	24.9	196	12.6	1 271	14.6
Musselshell	184	6.4	875	6.4	62	19.5	845	2.5	154	9.6	1 505	3.7
Park	366	4.7	1 760	8.2	72	24.1	247	4.8	158	11.1	1 966	15.1
Petroleum	73	5.3	502	7.8	24	13.8	117	16.1	71	4.9	707	10.7
Phillips	425	3.1	2 958	4.9	184	12.2	1 199	20.2	289	7.7	4 745	7.4
Pondera	399	4.2	3 408	7.0	213	10.2	1 734	13.1	311	6.2	3 705	8.5
Powder River	267	3.5	1 547	4.6	59	13.7	361	4.8	196	7.0	1 966	5.4
Powell	177	6.5	1 157	7.5	32	27.4	157	37.4	80	14.7	1 198	10.8
Prairie	144	2.7	1 403	3.4	63	8.4	357	6.0	117	4.7	1 673	4.8
Ravalli	858	3.8	1 864	7.5	279	11.8	373	13.1	364	9.7	2 111	11.3
Richland	526	2.0	3 820	2.8	172	13.1	1 007	8.0	381	6.2	4 328	6.0
Roosevelt	527	3.7	3 344	9.4	146	15.5	968	19.7	267	9.3	2 296	8.6
Rosebud	303	5.5	2 328	8.9	117	14.3	757	16.1	225	8.8	3 662	7.6
Sanders	330	5.1	795	9.1	58	26.5	87	48.5	120	17.8	917	27.5
Sheridan	497	4.2	2 783	8.5	224	11.8	996	16.4	276	9.4	2 057	11.2
Silver Bow	92	6.4	196	9.3	21	21.9	25	19.3	34	18.1	236	14.2
Stillwater	388	5.1	1 820	8.4	131	15.3	635	18.4	260	10.3	2 404	10.4
Sweet Grass	255	3.8	1 722	6.8	82	12.6	209	18.3	164	8.2	1 790	7.4
Teton	489	2.9	4 994	4.6	247	9.2	2 333	13.9	371	5.6	5 204	5.9
Toole	352	3.3	2 519	4.5	138	12.7	1 526	13.9	213	6.9	2 378	6.0
Treasure	86	5.0	1 144	1.9	41	11.6	286	8.0	75	6.2	1 375	4.8
Valley	504	4.4	3 206	7.4	213	12.1	1 566	9.6	421	6.1	4 301	7.3
Wheatland	124	3.2	1 293	2.8	38	11.3	318	4.9	97	4.0	1 436	4.4
Wibaux	144	4.1	928	7.5	76	10.0	247	11.1	107	7.0	1 015	8.0
Yellowstone	835	4.0	5 064	3.1	294	9.4	1 557	6.7	523	6.6	6 179	5.4

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Farm production expenses[1]—Con.											
	Cash rent				Property taxes paid				All other farm production expenses			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Montana	**6 705**	**2.0**	**81 423**	**1.8**	**22 916**	**.6**	**89 911**	**1.0**	**22 406**	**.6**	**215 547**	**1.0**
Beaverhead	49	17.4	881	4.3	349	1.7	2 671	2.9	337	2.7	8 367	2.0
Big Horn	196	9.2	4 889	8.6	504	2.0	1 723	6.2	504	2.5	6 424	3.2
Blaine	169	13.3	2 988	4.5	504	2.7	2 468	6.2	488	2.5	6 544	6.0
Broadwater	64	18.4	501	7.1	211	2.9	923	11.6	212	2.9	2 643	6.5
Carbon	192	12.6	2 048	11.6	571	3.0	1 474	5.6	583	2.1	4 199	7.5
Carter	100	14.4	1 207	14.4	290	2.8	1 278	4.0	298	2.3	3 135	6.6
Cascade	215	11.1	2 461	7.6	884	1.2	3 545	3.3	853	2.2	9 396	3.1
Chouteau	252	11.3	4 212	7.8	712	1.6	3 951	3.8	707	1.7	11 375	5.3
Custer	95	20.4	1 014	16.6	379	3.3	1 656	9.9	379	3.3	3 559	4.6
Daniels	149	11.0	1 972	15.2	338	2.7	1 646	7.4	319	3.8	3 338	11.3
Dawson	123	13.7	1 439	7.5	470	2.6	1 603	7.3	494	1.5	3 739	5.8
Deer Lodge	11	8.1	122	8.9	81	2.9	281	2.8	78	3.0	499	2.8
Fallon	101	20.5	989	31.8	292	3.9	825	6.4	284	4.9	2 778	10.4
Fergus	226	12.7	2 801	12.4	801	1.3	3 185	4.2	778	2.0	7 848	4.7
Flathead	145	15.7	871	4.7	836	2.2	1 941	6.7	793	3.0	2 336	3.5
Gallatin	214	10.7	2 691	9.9	788	2.2	2 315	4.5	743	2.7	6 058	3.1
Garfield	75	9.5	1 958	10.4	236	1.9	1 375	2.5	234	2.6	3 437	3.9
Glacier	194	11.1	2 978	4.2	382	4.1	1 732	7.0	370	4.6	4 596	5.7
Golden Valley	51	8.8	530	4.1	113	2.9	540	3.5	106	4.0	1 345	3.1
Granite	26	14.7	138	11.4	117	1.3	579	4.0	104	3.0	1 429	4.3
Hill	210	13.9	2 574	7.9	607	3.9	3 012	4.4	616	2.8	7 718	5.8
Jefferson	53	19.3	344	15.9	261	2.1	545	7.7	257	2.4	1 114	7.1
Judith Basin	122	14.2	1 450	6.6	304	3.8	1 483	5.7	327	.6	4 159	6.0
Lake	248	13.3	1 246	10.6	973	1.6	2 991	6.1	915	2.7	4 410	7.9
Lewis and Clark	74	23.2	404	14.4	501	.8	1 479	5.5	436	4.2	2 576	4.2
Liberty	91	12.2	1 953	10.6	256	3.3	1 785	5.8	274	1.8	4 300	4.8
Lincoln	31	21.9	230	56.8	240	2.4	339	10.7	206	4.8	712	6.7
McCone	104	17.7	1 173	18.6	413	2.2	2 131	11.1	388	2.9	3 647	9.0
Madison	95	14.9	1 461	9.2	443	1.7	1 751	8.7	408	4.0	4 676	5.6
Meagher	34	11.0	467	1.9	140	2.1	1 096	2.7	132	2.9	2 677	2.4
Mineral	15	7.2	34	10.1	68	3.8	103	4.1	62	3.8	198	4.8
Missoula	42	31.2	252	27.5	466	2.0	896	9.0	455	2.7	967	13.1
Musselshell	80	12.5	932	8.7	231	.7	879	11.7	212	4.6	2 232	5.4
Park	71	21.0	446	14.6	410	1.4	1 461	6.7	391	3.6	2 798	6.5
Petroleum	47	9.8	669	8.1	86	3.1	367	6.4	86	2.9	1 039	5.6
Phillips	151	12.7	1 863	12.7	451	3.1	2 485	6.0	452	2.2	4 884	4.6
Pondera	191	11.0	3 196	8.5	443	2.6	2 380	5.2	461	1.8	6 545	6.6
Powder River	92	13.7	1 213	11.8	268	3.7	1 426	6.3	285	2.5	3 015	3.9
Powell	41	24.5	183	16.8	217	3.1	961	6.6	205	4.4	2 390	2.5
Prairie	59	10.0	436	7.8	148	3.1	807	4.1	152	2.4	1 893	3.4
Ravalli	176	14.0	611	25.1	1 057	1.3	1 701	7.1	987	2.5	2 707	9.9
Richland	182	11.4	2 031	6.2	509	3.5	2 598	3.9	531	2.6	5 340	3.7
Roosevelt	204	10.8	3 047	13.5	568	2.8	1 827	5.2	560	2.4	4 618	13.2
Rosebud	102	14.9	1 275	4.0	339	3.5	1 441	4.4	348	2.9	3 933	5.7
Sanders	100	19.1	290	27.9	375	3.9	995	11.4	358	4.7	2 203	13.5
Sheridan	177	13.5	1 572	17.0	539	2.9	1 966	8.1	549	2.5	4 302	10.6
Silver Bow	16	21.0	57	21.1	106	3.9	245	7.2	104	5.0	313	3.7
Stillwater	156	14.4	900	8.5	439	3.5	1 429	6.4	434	3.0	2 916	6.2
Sweet Grass	75	12.2	773	22.3	283	2.3	1 345	16.2	277	2.9	2 818	5.0
Teton	214	10.9	3 922	13.2	517	2.5	3 079	6.1	529	1.9	7 226	7.0
Toole	108	16.3	2 153	13.0	345	3.8	1 783	7.8	356	2.6	4 756	11.8
Treasure	57	8.1	854	3.9	100	2.0	471	2.7	107	2.4	1 752	3.1
Valley	227	10.4	2 092	17.8	604	2.6	2 491	5.8	589	2.8	5 804	6.7
Wheatland	45	9.4	720	1.6	141	1.4	904	2.6	130	1.9	2 444	1.8
Wibaux	71	10.0	690	13.9	173	2.2	527	5.3	162	3.2	1 224	7.6
Yellowstone	297	8.4	3 218	9.1	1 037	1.9	3 022	6.9	1 001	2.1	8 196	2.4

Geographic area	Net cash return from agricultural sales for the farm unit (see text)[1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Montana	**24 275**	**.4**	**334 834**	**2.0**	**20 669**	**.4**	**17 629 001**	**.3**	**17 854**	**.4**	**9 399 718**	**.2**
Beaverhead	360	.8	10 037	5.9	305	.7	202 965	1.3	272	1.0	142 516	.6
Big Horn	530	1.0	12 842	6.5	420	.9	407 958	.5	372	.9	229 122	.5
Blaine	542	.7	9 169	15.9	457	.8	659 890	1.0	396	1.0	301 302	.6
Broadwater	219	1.1	3 168	11.6	191	1.0	130 672	1.1	173	1.2	80 498	.9
Carbon	623	.6	6 742	14.8	536	.6	172 004	1.1	466	.7	101 117	.9
Carter	305	.8	4 594	17.0	244	.9	244 923	1.4	225	1.0	125 770	.9
Cascade	903	.6	16 274	7.0	750	.6	507 562	.9	637	.8	290 209	.6
Chouteau	750	.6	18 417	9.0	699	.6	1 345 807	.5	616	.7	709 196	.4
Custer	405	.6	4 909	20.1	324	.9	170 277	1.2	279	1.1	85 708	1.1
Daniels	363	1.0	4 819	18.6	348	.7	529 328	.9	275	1.2	268 612	.7
Dawson	502	.7	5 355	12.7	429	.7	465 942	1.0	375	.8	239 270	.7
Deer Lodge	83	2.9	244	20.1	68	1.4	21 578	2.8	62	1.7	13 139	2.7
Fallon	309	.9	3 812	21.1	261	1.0	232 081	1.3	224	1.2	127 642	1.1
Fergus	816	.5	17 614	7.0	690	.6	675 934	.7	636	.7	408 354	.5

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Net cash return from agricultural sales for the farm unit (see text)[1]				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Flathead	898	.6	2 620	31.3	759	.7	105 561	1.3	688	.8	79 193	1.2
Gallatin	834	.6	10 073	9.7	684	.7	252 837	1.1	603	.8	160 648	.9
Garfield	244	1.0	5 996	6.5	204	1.0	301 645	.8	179	1.3	146 210	.9
Glacier	425	1.0	9 436	8.6	318	1.1	497 158	.9	260	1.3	276 129	.5
Golden Valley	118	2.0	2 440	8.0	101	.9	117 031	1.1	86	1.4	58 440	.8
Granite	117	1.3	1 758	10.0	100	1.1	45 010	1.6	86	1.5	30 736	1.5
Hill	692	.7	14 992	9.8	636	.6	1 080 322	.5	546	.7	521 496	.4
Jefferson	266	1.1	909	52.3	209	1.1	75 504	2.5	166	1.5	32 607	1.7
Judith Basin	329	.6	10 867	11.0	281	.9	288 532	.8	261	1.0	201 215	.6
Lake	1 010	.6	4 236	30.7	872	.6	150 057	1.2	750	.7	89 945	1.2
Lewis and Clark	502	.8	3 378	18.2	412	.8	97 469	1.5	358	1.0	63 161	1.1
Liberty	280	.8	4 134	21.9	271	.4	630 618	.5	237	.7	308 498	.4
Lincoln	251	1.2	573	75.2	219	.8	17 088	2.4	188	1.2	11 109	2.4
McCone	430	.6	4 063	19.3	392	.5	554 826	.7	344	.7	263 965	.6
Madison	459	.7	4 354	23.0	378	.7	153 658	.9	315	.9	97 920	.7
Meagher	142	1.5	4 640	4.0	108	1.3	113 731	.7	99	1.4	75 410	.7
Mineral	71	3.7	–19	(H)	55	2.1	5 945	5.5	46	3.0	3 243	5.6
Missoula	481	.8	–2 106	20.0	372	.9	46 985	3.1	300	1.2	25 171	2.9
Musselshell	232	.7	2 084	21.9	171	1.2	133 950	1.5	149	1.5	76 069	.9
Park	420	.7	3 661	20.7	362	.8	131 730	1.7	299	1.1	76 356	1.3
Petroleum	88	2.3	2 174	9.5	71	1.3	64 035	2.7	65	1.7	34 556	1.8
Phillips	489	.8	3 646	23.0	422	.7	634 323	.8	363	.9	263 920	.6
Pondera	474	.7	13 314	11.4	427	.7	563 645	.7	400	.7	330 410	.6
Powder River	297	.9	7 536	5.4	253	.9	165 614	1.7	240	.9	103 913	1.0
Powell	230	1.0	2 762	24.3	192	1.0	75 021	1.2	175	1.2	60 495	1.2
Prairie	158	1.6	2 147	8.6	139	1.0	123 251	1.4	120	1.3	66 332	1.3
Ravalli	1 080	.6	544	(H)	933	.6	82 562	1.4	735	.8	43 665	1.5
Richland	572	.7	11 760	6.5	490	.7	506 853	.9	448	.8	279 736	.6
Roosevelt	609	.7	8 764	15.7	573	.6	783 768	.6	468	.8	391 029	.5
Rosebud	363	.8	6 802	16.4	277	1.0	206 740	.9	237	1.2	122 605	.7
Sanders	412	.9	887	60.2	348	.9	62 437	2.1	313	1.1	35 971	1.9
Sheridan	581	.8	8 653	14.4	550	.6	677 445	.7	453	.7	342 588	.6
Silver Bow	116	2.0	829	21.3	75	2.1	14 885	10.8	59	2.7	7 381	3.9
Stillwater	472	.6	4 611	22.0	385	.8	249 539	1.2	343	.9	119 037	1.0
Sweet Grass	300	1.0	2 356	27.1	240	1.0	100 863	1.4	202	1.2	59 141	1.2
Teton	557	.5	15 077	7.7	494	.5	581 422	.6	432	.7	343 501	.4
Toole	382	.6	8 827	19.9	343	.6	680 472	.6	287	.9	313 441	.5
Treasure	110	1.8	3 265	5.7	85	1.4	47 193	3.0	80	1.4	30 103	1.0
Valley	655	.8	8 299	11.0	597	.7	740 152	.8	511	.9	363 236	.6
Wheatland	144	1.3	4 282	4.5	122	.9	181 955	1.4	109	1.2	105 095	.7
Wibaux	178	1.5	1 159	24.2	154	1.0	138 858	1.4	137	1.3	71 295	1.2
Yellowstone	1 097	.6	11 057	8.5	873	.7	381 390	1.3	709	.8	192 292	.8

Geographic area	Irrigated land				Livestock and poultry							
					Cattle and calves inventory				Beef cows inventory			
	Farms		Acres		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Montana	**9 059**	**.4**	**1 994 484**	**.4**	**14 216**	**.4**	**2 618 319**	**.3**	**12 902**	**.5**	**1 558 921**	**.3**
Beaverhead	282	.9	224 612	.9	242	1.1	138 390	.5	231	1.1	79 288	.5
Big Horn	192	1.5	53 487	1.7	389	1.0	91 216	.9	369	1.1	(D)	(D)
Blaine	220	1.7	63 252	1.9	343	1.2	72 556	1.1	317	1.2	47 852	1.1
Broadwater	153	1.4	53 349	1.7	136	1.7	24 676	2.2	126	1.8	15 058	2.0
Carbon	435	.8	81 575	1.1	434	.8	67 043	.8	391	.9	31 325	1.1
Carter	22	4.8	4 755	12.0	249	.8	59 356	1.1	238	.9	38 439	1.1
Cascade	269	1.7	32 999	2.6	533	.9	86 691	1.2	466	1.1	52 986	1.3
Chouteau	50	3.8	11 777	3.4	284	1.4	46 606	1.5	267	1.5	30 843	1.5
Custer	182	1.7	28 199	2.1	295	1.0	78 871	.7	261	1.2	44 615	.8
Daniels	18	6.1	1 585	5.1	121	2.4	14 719	2.6	116	2.5	(D)	(D)
Dawson	98	2.4	18 486	2.2	314	1.0	44 249	1.3	297	1.1	28 860	1.3
Deer Lodge	58	1.9	17 639	3.5	60	1.8	11 606	2.8	54	2.1	7 032	2.9
Fallon	15	8.4	1 277	13.5	225	1.3	41 530	1.5	214	1.3	26 251	1.6
Fergus	80	2.6	16 136	1.5	590	.8	109 566	.9	567	.8	70 312	.9
Flathead	233	1.7	26 983	1.8	326	1.4	17 371	1.9	247	1.7	8 221	3.2
Gallatin	396	1.2	90 671	1.4	463	1.1	59 335	1.2	377	1.3	29 805	1.6
Garfield	23	4.7	5 003	6.2	196	1.0	54 939	.9	192	1.1	36 510	.9
Glacier	67	3.3	23 574	2.6	253	1.5	39 571	1.7	240	1.5	27 074	1.7
Golden Valley	41	2.7	9 949	5.8	83	1.6	21 433	1.3	78	1.7	12 015	1.3
Granite	90	1.3	36 131	1.5	92	1.4	25 094	1.5	90	1.5	16 541	1.6
Hill	35	4.9	5 027	3.6	240	1.6	30 158	2.0	215	1.7	(D)	(D)
Jefferson	134	1.9	25 823	1.9	169	1.5	21 535	1.4	147	1.6	14 294	1.4
Judith Basin	34	4.3	5 794	3.9	250	1.0	64 397	1.2	236	1.1	37 754	1.3
Lake	711	.8	99 521	1.4	595	.9	55 216	1.6	530	1.0	32 743	1.6
Lewis and Clark	303	1.2	40 032	1.5	240	1.5	44 399	1.2	197	1.8	24 739	1.5
Liberty	20	3.6	8 255	.6	82	2.1	16 488	2.0	79	2.1	10 565	2.2
Lincoln	85	2.7	4 754	5.9	119	2.0	4 134	4.6	104	2.3	2 634	4.8
McCone	38	3.7	7 068	4.1	221	1.2	34 076	1.5	207	1.3	21 274	1.5
Madison	335	.9	108 491	1.2	323	.9	77 167	.8	298	1.0	47 618	.9

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Irrigated land				Livestock and poultry							
	Farms		Acres		Cattle and calves inventory				Beef cows inventory			
					Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Meagher	82	1.7	45 533	1.3	113	1.2	58 960	.7	104	1.4	(D)	(D)
Mineral	30	4.6	1 254	6.8	25	5.3	1 062	8.6	23	5.6	(D)	(D)
Missoula	273	1.3	22 291	4.2	221	1.6	13 103	3.3	170	1.9	8 061	3.1
Musselshell	60	3.0	12 376	4.2	165	1.3	35 509	1.3	149	1.5	23 309	1.2
Park	251	1.3	48 820	1.7	258	1.3	46 265	1.5	234	1.4	30 346	1.5
Petroleum	34	3.2	11 130	1.7	71	1.4	23 815	1.6	70	1.5	13 993	1.7
Phillips	196	1.7	41 734	1.9	335	1.0	77 307	1.0	317	1.1	48 192	.9
Pondera	194	1.6	62 659	1.4	238	1.4	27 790	1.7	228	1.5	18 826	1.7
Powder River	46	3.8	8 607	2.1	256	.8	71 603	1.0	244	.9	44 359	1.0
Powell	162	1.3	62 952	1.7	173	1.2	52 391	1.0	166	1.3	(D)	(D)
Prairie	54	3.2	11 390	2.2	123	1.3	33 547	1.2	117	1.4	19 480	1.2
Ravalli	923	.6	76 873	1.3	599	1.0	37 234	1.6	486	1.1	20 515	1.9
Richland	182	1.8	48 324	1.2	332	1.2	56 202	.8	299	1.3	29 598	1.0
Roosevelt	58	3.7	9 726	3.6	264	1.4	28 863	1.6	251	1.4	18 882	1.6
Rosebud	121	2.1	30 813	1.4	276	1.0	88 777	.6	259	1.1	53 115	.6
Sanders	154	2.1	18 432	3.5	268	1.3	21 123	2.1	231	1.5	13 498	2.2
Sheridan	35	3.9	6 164	3.3	227	1.4	22 528	1.8	219	1.5	(D)	(D)
Silver Bow	51	3.3	7 542	5.5	71	2.0	9 326	4.8	69	2.1	5 966	3.9
Stillwater	188	1.7	25 806	1.9	345	.9	57 773	.9	311	1.1	33 225	1.1
Sweet Grass	154	1.7	44 901	2.1	219	1.1	50 652	1.2	205	1.2	32 311	1.2
Teton	274	1.2	118 393	1.0	309	1.1	62 193	.9	284	1.2	34 382	1.1
Toole	34	3.7	5 512	3.5	137	1.9	20 144	1.7	125	2.0	(D)	(D)
Treasure	60	2.1	17 486	1.4	88	1.3	32 027	.8	85	1.3	(D)	(D)
Valley	173	2.2	49 809	1.7	335	1.3	64 448	1.1	326	1.4	40 501	1.2
Wheatland	58	2.5	19 489	2.6	105	1.3	35 960	1.0	103	1.4	21 664	1.0
Wibaux	6	7.9	240	3.6	121	1.6	18 708	1.8	112	1.8	(D)	(D)
Yellowstone	587	1.0	80 024	1.2	675	.9	118 621	.5	564	1.0	45 742	1.0

Geographic area	Livestock and poultry—Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Montana	**721**	**1.1**	**18 052**	**.6**	**627**	**1.2**	**177 740**	**.5**	**1 981**	**.7**	**416 012**	**.6**
Beaverhead	6	12.4	10	13.1	5	15.3	41	17.1	46	3.7	18 165	2.8
Big Horn	5	13.6	(D)	(D)	9	5.6	2 958	.3	30	4.7	2 854	9.4
Blaine	7	12.1	54	31.0	17	6.3	4 655	2.6	48	4.4	7 476	4.3
Broadwater	7	10.5	15	13.9	5	13.9	661	22.7	10	9.0	4 820	1.3
Carbon	17	6.5	172	15.3	14	7.7	247	8.9	85	2.9	8 841	5.4
Carter	26	5.3	47	7.5	11	8.0	875	14.3	90	2.3	59 292	1.6
Cascade	20	6.3	725	3.0	25	5.8	17 253	.5	66	3.8	11 548	3.8
Chouteau	6	15.2	14	20.1	18	8.0	3 248	10.0	22	5.9	2 455	10.1
Custer	21	6.2	55	6.5	12	9.4	497	20.0	50	3.9	6 463	5.3
Daniels	2	–	(D)	(D)	11	10.2	4 856	3.7	13	10.2	785	7.7
Dawson	16	5.1	210	.4	8	10.2	1 150	20.6	32	5.1	7 023	5.1
Deer Lodge	4	11.4	4	11.4	2	–	(D)	(D)	7	9.4	536	5.4
Fallon	5	14.5	14	15.5	14	9.2	948	16.7	24	6.4	4 191	8.0
Fergus	25	5.2	368	.6	20	5.9	2 290	9.5	84	3.0	7 010	4.2
Flathead	27	5.4	1 504	1.6	21	6.5	2 327	11.6	31	5.8	776	10.6
Gallatin	44	3.0	4 722	1.4	12	8.4	3 982	3.3	63	4.1	7 880	5.2
Garfield	12	8.5	24	12.0	5	16.5	287	28.5	68	2.5	49 384	1.3
Glacier	11	6.8	390	.3	12	7.1	19 956	.2	7	9.8	477	14.1
Golden Valley	5	9.3	138	2.6	4	11.6	(D)	(D)	16	6.7	8 033	1.5
Granite	5	12.8	8	12.3	1	31.1	(D)	(D)	6	9.2	361	10.1
Hill	10	8.6	(D)	(D)	21	5.3	9 870	2.6	11	11.2	802	20.8
Jefferson	11	8.9	59	24.5	20	7.0	1 996	2.8	22	5.8	1 210	6.8
Judith Basin	10	8.7	139	1.2	6	10.3	(D)	(D)	43	4.1	9 666	4.6
Lake	42	4.0	1 528	1.9	27	5.9	2 100	2.9	44	4.7	4 357	5.2
Lewis and Clark	11	8.1	307	.8	23	6.5	(D)	(D)	31	5.3	4 767	2.3
Liberty	6	7.6	438	.2	13	5.6	17 599	1.1	3	16.1	(D)	(D)
Lincoln	12	8.1	21	8.6	10	9.3	34	12.7	6	13.8	181	17.6
McCone	8	9.2	26	15.5	10	7.4	272	14.3	29	4.0	14 222	1.5
Madison	23	5.8	130	1.6	8	10.5	99	19.6	78	2.9	9 171	3.4
Meagher	5	10.7	(D)	(D)	1	–	(D)	(D)	16	6.1	5 608	3.4
Mineral	1	43.3	(D)	(D)	3	20.1	26	19.6	4	11.9	128	11.4
Missoula	8	11.5	51	26.5	15	8.7	55	13.4	40	4.9	1 023	7.6
Musselshell	15	8.0	27	8.5	5	14.1	52	4.1	26	5.3	10 658	1.7
Park	8	10.2	131	18.8	8	12.4	207	30.2	36	5.6	3 281	4.6
Petroleum	3	11.7	4	17.5	1	35.0	(D)	(D)	10	5.8	4 620	3.7
Phillips	17	6.6	66	7.9	18	6.0	3 900	3.4	38	4.7	10 154	3.4
Pondera	9	7.3	596	.2	16	5.8	17 500	.2	27	5.8	7 556	4.6
Powder River	21	6.6	31	6.5	2	16.7	(D)	(D)	69	3.0	20 205	3.0
Powell	8	7.8	(D)	(D)	13	7.6	442	7.4	25	5.8	1 476	5.2

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Livestock and poultry—Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Prairie	6	9.1	25	14.3	3	14.4	(D)	(D)	19	6.1	5 199	2.3
Ravalli	43	4.1	1 679	1.7	32	5.3	596	9.3	97	3.2	4 357	7.1
Richland	11	6.6	67	3.0	13	9.8	359	17.3	37	4.5	5 956	7.8
Roosevelt	4	16.0	7	9.1	12	8.7	864	7.7	21	6.4	5 562	2.0
Rosebud	11	9.7	18	12.4	7	11.8	(D)	(D)	26	5.5	4 600	5.3
Sanders	23	6.4	210	1.6	15	7.9	73	10.3	12	9.1	325	11.0
Sheridan	4	13.5	(D)	(D)	10	10.0	1 483	5.3	18	6.5	2 272	6.9
Silver Bow	3	22.0	3	22.0	6	12.5	128	22.8	13	7.0	733	8.3
Stillwater	23	5.4	190	4.6	12	8.0	2 020	8.2	74	3.1	11 889	3.6
Sweet Grass	16	6.3	30	11.9	8	9.1	2 015	4.7	60	3.4	12 518	4.0
Teton	13	6.8	459	5.4	14	7.0	14 252	.6	40	4.2	8 489	2.1
Toole	5	7.9	(D)	(D)	7	12.2	(D)	(D)	14	7.8	1 818	13.3
Treasure	2	21.7	(D)	(D)	5	14.5	10	15.0	4	12.5	(D)	(D)
Valley	10	9.9	22	17.2	5	10.0	205	2.1	33	5.9	4 199	7.7
Wheatland	7	8.2	424	.2	8	7.5	8 297	.2	46	3.2	23 275	2.3
Wibaux	5	9.0	(D)	(D)	7	12.5	834	12.7	14	8.3	1 125	10.6
Yellowstone	36	4.5	1 628	2.1	17	7.9	132	10.8	97	3.1	5 732	3.7

Geographic area	Livestock and poultry—Con.							
	Layers 20 weeks old and older inventory				Broilers and other meat-type chickens sold			
	Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Montana	**1 001**	**1.0**	**294 399**	**.1**	**61**	**3.3**	**112 821**	**.2**
Beaverhead	15	8.2	290	8.8	–	–	–	–
Big Horn	7	10.1	316	6.0	–	–	–	–
Blaine	9	8.0	(D)	(D)	–	–	–	–
Broadwater	11	9.2	384	4.8	1	–	(D)	(D)
Carbon	31	5.1	427	6.1	–	–	–	–
Carter	20	5.6	349	6.2	–	–	–	–
Cascade	44	4.7	30 530	.6	3	11.9	(D)	(D)
Chouteau	17	7.2	387	10.1	2	27.9	(D)	(D)
Custer	24	6.3	467	7.1	–	–	–	–
Daniels	4	19.4	109	23.1	–	–	–	–
Dawson	17	6.8	517	7.9	1	27.6	(D)	(D)
Deer Lodge	3	–	52	–	–	–	–	–
Fallon	12	7.9	306	9.5	–	–	–	–
Fergus	31	4.8	2 520	1.7	2	27.0	(D)	(D)
Flathead	51	4.2	737	5.5	5	13.6	60	16.4
Gallatin	37	5.5	759	6.6	4	17.5	81	18.8
Garfield	17	6.5	573	14.5	–	–	–	–
Glacier	15	6.9	35 204	.1	4	–	5 700	–
Golden Valley	7	8.9	(D)	(D)	–	–	–	–
Granite	1	37.3	(D)	(D)	–	–	–	–
Hill	12	8.8	(D)	(D)	7	6.7	2 076	5.7
Jefferson	18	7.1	284	8.4	2	24.6	(D)	(D)
Judith Basin	4	9.7	(D)	(D)	1	–	(D)	(D)
Lake	43	5.1	687	6.8	–	–	–	–
Lewis and Clark	35	5.0	(D)	(D)	2	19.1	(D)	(D)
Liberty	4	7.7	28 478	(L)	3	–	25 500	–
Lincoln	22	6.5	706	7.9	2	23.2	(D)	(D)
McCone	6	10.1	315	5.7	–	–	–	–
Madison	24	5.4	431	5.9	–	–	–	–
Meagher	7	9.2	(D)	(D)	–	–	–	–
Mineral	1	43.3	(D)	(D)	–	–	–	–
Missoula	27	6.2	329	7.7	4	18.1	220	25.4
Musselshell	10	9.1	402	7.9	–	–	–	–
Park	30	6.0	703	12.0	–	–	–	–
Petroleum	–	–	–	–	–	–	–	–
Phillips	18	6.2	712	4.2	1	–	(D)	(D)
Pondera	20	6.6	51 320	.1	4	9.7	(D)	(D)
Powder River	14	7.9	305	7.0	–	–	–	–
Powell	8	10.0	130	8.0	–	–	–	–
Prairie	5	15.8	134	22.1	2	21.7	(D)	(D)
Ravalli	87	3.3	1 286	4.1	2	17.7	(D)	(D)
Richland	25	6.0	944	7.2	1	–	(D)	(D)
Roosevelt	17	8.7	422	10.9	–	–	–	–
Rosebud	11	9.4	274	8.4	–	–	–	–
Sanders	35	5.3	642	8.4	–	–	–	–
Sheridan	6	10.3	118	11.7	–	–	–	–
Silver Bow	7	12.3	134	14.0	–	–	–	–
Stillwater	20	6.6	509	6.2	–	–	–	–
Sweet Grass	13	7.1	227	11.1	1	34.1	(D)	(D)

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Livestock and poultry—Con.							
	Layers 20 weeks old and older inventory				Broilers and other meat-type chickens sold			
	Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Teton	18	5.9	32 882	.1	3	10.1	(D)	(D)
Toole	15	7.1	(D)	(D)	1	–	(D)	(D)
Treasure	4	16.5	23	16.4	–	–	–	–
Valley	13	9.0	369	9.8	1	36.1	(D)	(D)
Wheatland	3	–	28 250	–	1	–	(D)	(D)
Wibaux	5	13.3	(D)	(D)	–	–	–	–
Yellowstone	41	5.1	657	5.7	1	38.9	(D)	(D)

Geographic area	Selected crops harvested											
	Corn for silage or green chop						Wheat for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, green	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Montana	**422**	**1.0**	**36 644**	**.9**	**736 202**	**.8**	**7 932**	**.4**	**5 602 336**	**.2**	**172 214 482**	**.2**
Beaverhead	–	–	–	–	–	–	29	3.4	10 445	1.4	651 155	1.3
Big Horn	19	2.4	1 283	1.3	28 611	1.3	178	1.5	137 631	.4	5 060 197	.5
Blaine	3	19.6	108	31.2	(D)	(D)	219	1.5	209 493	.7	6 044 382	.8
Broadwater	–	–	–	–	–	–	86	2.3	45 091	1.0	2 252 367	1.0
Carbon	44	2.7	3 306	2.3	69 958	1.8	63	3.0	15 025	2.1	513 495	2.0
Carter	2	16.3	(D)	(D)	(D)	(D)	77	2.6	38 549	1.4	870 022	1.1
Cascade	–	–	–	–	–	–	235	1.6	152 705	.7	6 272 498	.7
Chouteau	1	–	(D)	(D)	(D)	(D)	550	.8	560 587	.4	20 172 518	.4
Custer	34	4.2	3 370	5.3	67 584	3.8	91	2.5	29 809	1.5	671 480	1.6
Daniels	1	–	(D)	(D)	(D)	(D)	252	1.2	244 091	.7	5 894 257	.7
Dawson	15	5.3	1 228	3.4	20 384	3.7	265	1.2	169 383	.9	4 477 333	.8
Deer Lodge	–	–	–	–	–	–	1	–	(D)	(D)	(D)	(D)
Fallon	1	–	(D)	(D)	(D)	(D)	120	2.2	62 498	1.6	1 368 275	1.6
Fergus	1	–	(D)	(D)	(D)	(D)	330	1.2	189 671	.7	7 084 714	.7
Flathead	–	–	–	–	–	–	122	2.2	19 477	2.0	1 128 311	1.6
Gallatin	–	–	–	–	–	–	198	1.6	46 145	1.3	2 422 310	1.4
Garfield	3	15.1	130	17.4	2 040	13.3	128	1.7	102 118	1.0	2 672 407	.8
Glacier	–	–	–	–	–	–	152	1.7	151 468	.7	5 137 748	.6
Golden Valley	2	13.8	(D)	(D)	(D)	(D)	47	2.4	34 976	1.0	1 257 178	1.0
Granite	–	–	–	–	–	–	6	10.6	(D)	(D)	(D)	(D)
Hill	2	–	(D)	(D)	(D)	(D)	470	.8	462 910	.5	14 719 904	.5
Jefferson	–	–	–	–	–	–	12	7.5	5 226	6.8	195 866	7.8
Judith Basin	1	–	(D)	(D)	(D)	(D)	140	1.6	74 860	.9	2 827 447	.9
Lake	6	–	600	–	14 885	–	107	2.6	23 934	1.9	1 376 415	1.9
Lewis and Clark	–	–	–	–	–	–	24	5.5	11 005	1.7	409 379	2.4
Liberty	1	–	(D)	(D)	(D)	(D)	222	.7	265 044	.4	7 447 622	.4
Lincoln	–	–	–	–	–	–	1	35.0	(D)	(D)	(D)	(D)
McCone	–	–	–	–	–	–	293	.9	207 015	.7	4 922 192	.7
Madison	1	30.3	(D)	(D)	(D)	(D)	39	2.8	14 030	1.3	849 296	1.5
Meagher	–	–	–	–	–	–	17	3.7	8 830	1.5	370 858	1.2
Mineral	–	–	–	–	–	–	6	10.9	710	11.9	33 600	11.3
Missoula	–	–	–	–	–	–	14	7.8	3 099	9.6	131 200	10.0
Musselshell	8	4.2	432	5.1	5 940	5.7	42	3.7	44 043	1.1	1 493 333	.9
Park	–	–	–	–	–	–	47	3.5	10 428	4.5	386 996	4.6
Petroleum	–	–	–	–	–	–	25	4.2	14 624	3.1	477 507	2.9
Phillips	1	–	(D)	(D)	(D)	(D)	220	1.4	165 013	.8	4 195 508	.9
Pondera	–	–	–	–	–	–	311	1.0	189 395	.7	7 583 713	.7
Powder River	1	–	(D)	(D)	(D)	(D)	65	2.7	26 696	1.6	601 020	2.0
Powell	–	–	–	–	–	–	9	8.6	1 441	13.6	89 315	15.1
Prairie	21	4.6	1 365	2.1	22 203	2.3	85	2.0	37 493	1.6	881 516	1.6
Ravalli	1	–	(D)	(D)	(D)	(D)	19	7.8	1 898	10.6	95 207	10.1
Richland	69	2.6	4 221	1.8	71 926	1.8	338	1.0	181 702	.8	4 556 702	.8
Roosevelt	5	11.5	226	12.6	2 425	12.2	371	1.0	335 032	.5	8 153 626	.5
Rosebud	16	4.8	2 952	1.6	60 933	1.2	90	2.4	60 869	.9	1 526 711	1.1
Sanders	–	–	–	–	–	–	23	6.4	2 940	4.2	124 913	4.7
Sheridan	–	–	–	–	–	–	409	.8	299 692	.6	7 008 789	.7
Silver Bow	–	–	–	–	–	–	–	–	–	–	–	–
Stillwater	23	4.7	2 013	4.5	41 035	4.0	111	2.1	46 253	1.7	1 399 034	1.7
Sweet Grass	–	–	–	–	–	–	16	5.7	8 222	2.4	291 625	2.6
Teton	–	–	–	–	–	–	226	1.2	167 591	.6	6 717 916	.6
Toole	–	–	–	–	–	–	252	1.1	231 870	.6	6 490 182	.6
Treasure	18	3.6	2 481	1.3	58 962	1.4	28	2.9	6 558	2.0	280 515	1.7
Valley	7	6.1	732	1.7	13 816	1.7	402	1.1	286 633	.7	6 790 235	.8
Wheatland	–	–	–	–	–	–	50	2.7	45 468	.8	1 609 696	.8
Wibaux	1	–	(D)	(D)	(D)	(D)	91	2.1	44 571	1.5	963 248	1.9
Yellowstone	114	2.0	11 290	1.8	239 831	1.8	208	1.7	97 210	1.3	3 234 657	1.2

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Selected crops harvested—Con.											
	Barley for grain						Oats for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Montana	**4 423**	**.5**	**1 093 414**	**.3**	**55 236 960**	**.3**	**1 251**	**.8**	**66 331**	**.8**	**3 501 669**	**.8**
Beaverhead	54	2.8	10 045	2.1	943 079	2.0	8	5.5	542	3.4	56 282	1.6
Big Horn	94	2.0	13 310	1.1	782 619	.9	36	4.2	1 305	3.5	83 730	4.1
Blaine	88	2.5	20 596	1.0	902 548	1.0	37	4.6	1 997	3.0	102 329	4.6
Broadwater	53	3.3	6 617	2.9	422 299	3.3	6	10.4	363	2.6	29 820	2.2
Carbon	123	1.9	11 134	1.7	898 609	1.8	45	3.6	1 586	3.5	95 996	4.5
Carter	16	6.1	2 884	6.1	106 263	6.5	14	7.5	1 001	12.0	32 770	7.5
Cascade	177	1.8	56 278	.9	3 115 102	1.1	29	5.0	994	3.4	52 138	2.7
Chouteau	279	1.2	97 534	.7	4 250 139	.8	16	5.5	1 190	1.6	67 150	1.3
Custer	29	4.6	3 074	3.8	134 986	3.6	19	6.2	1 059	6.8	65 315	10.8
Daniels	32	4.4	3 052	2.8	104 019	2.8	20	6.7	896	8.4	35 643	9.2
Dawson	97	2.2	15 744	1.2	591 322	1.1	35	4.2	2 049	4.4	80 720	4.5
Deer Lodge	6	7.6	444	1.7	27 258	1.1	1	–	(D)	(D)	(D)	(D)
Fallon	58	3.5	5 080	3.1	167 213	3.0	42	3.8	2 752	2.8	121 208	2.9
Fergus	273	1.3	75 936	.8	3 637 154	.8	57	3.4	3 215	3.4	154 810	3.0
Flathead	129	2.1	16 899	2.4	1 079 596	2.2	28	5.5	461	6.8	31 931	6.9
Gallatin	219	1.6	39 015	1.4	2 466 491	1.3	21	6.1	659	5.8	52 440	5.6
Garfield	46	3.2	10 630	2.4	442 686	2.1	25	3.0	2 838	1.1	115 260	1.1
Glacier	136	1.7	93 138	.8	4 287 851	.8	11	8.7	1 149	9.3	59 704	9.7
Golden Valley	19	3.3	4 019	1.9	201 620	2.4	7	4.7	809	4.1	42 010	6.5
Granite	10	6.8	1 701	10.8	115 256	11.7	5	8.7	172	5.2	13 800	5.6
Hill	129	1.8	28 476	.9	1 007 870	.8	24	4.9	1 207	4.6	41 101	4.0
Jefferson	22	5.1	2 853	2.8	149 177	3.5	11	7.2	599	8.4	42 485	8.1
Judith Basin	135	1.7	50 356	1.0	2 398 831	.8	37	3.8	2 325	3.5	143 163	3.7
Lake	74	3.1	4 485	2.9	308 072	2.5	48	4.0	1 789	4.2	139 213	4.5
Lewis and Clark	49	3.9	9 054	2.3	470 225	2.4	13	5.2	422	1.9	32 830	2.0
Liberty	72	1.8	26 487	.9	996 791	.7	9	3.8	372	2.7	15 484	3.1
Lincoln	1	35.0	(D)	(D)	(D)	(D)	7	11.8	145	13.6	8 885	15.2
McCone	86	2.1	12 748	1.5	424 476	1.3	24	4.5	2 397	2.7	91 628	2.3
Madison	66	2.3	9 564	1.7	706 759	1.6	18	5.2	657	3.9	48 072	4.0
Meagher	24	2.6	19 619	.5	1 052 620	.8	5	–	1 149	–	86 370	–
Mineral	1	35.0	(D)	(D)	(D)	(D)	5	10.6	78	7.3	4 000	9.5
Missoula	16	7.3	1 308	11.2	80 580	12.0	9	10.1	151	10.9	10 490	11.9
Musselshell	23	4.4	3 974	5.6	119 704	4.6	21	5.3	798	5.0	44 253	5.2
Park	58	3.4	7 811	4.5	415 376	3.7	27	5.0	951	4.1	57 859	4.7
Petroleum	9	7.9	1 253	7.6	56 104	13.3	2	–	(D)	(D)	(D)	(D)
Phillips	108	2.1	19 603	1.3	682 190	1.3	36	4.1	2 150	4.2	105 066	4.6
Pondera	287	1.1	107 059	.8	5 938 314	.8	12	8.4	284	9.5	12 393	9.8
Powder River	29	4.2	2 674	1.9	94 260	2.1	22	4.8	784	3.7	33 235	4.3
Powell	30	4.4	4 438	4.7	302 833	4.8	13	7.5	959	10.9	64 551	10.7
Prairie	31	4.2	5 572	1.6	185 235	1.8	17	5.9	1 251	8.4	60 671	10.2
Ravalli	58	3.8	2 587	4.1	207 231	4.0	37	4.8	942	4.1	78 199	4.3
Richland	115	2.0	15 949	1.8	614 720	1.7	70	2.7	5 407	1.9	273 626	1.8
Roosevelt	67	2.6	7 648	2.1	239 899	2.1	28	4.8	2 089	4.4	73 576	3.9
Rosebud	39	4.1	6 200	1.5	282 400	2.1	31	4.5	1 417	2.7	79 261	1.6
Sanders	12	8.6	1 144	14.3	59 417	14.6	14	8.5	389	13.0	25 163	14.2
Sheridan	54	2.9	7 374	2.6	209 623	2.6	32	4.2	1 897	5.8	70 282	5.3
Silver Bow	1	21.8	(D)	(D)	(D)	(D)	2	26.7	(D)	(D)	(D)	(D)
Stillwater	78	2.5	13 986	1.8	616 574	1.7	26	4.6	1 309	3.6	63 781	3.4
Sweet Grass	24	4.8	2 877	2.5	130 878	2.7	33	4.5	1 583	11.0	98 176	12.3
Teton	276	1.0	112 861	.8	7 052 820	.9	23	5.5	1 023	6.8	57 877	6.1
Toole	132	1.7	61 384	1.1	2 719 524	1.1	5	11.1	534	2.8	20 184	3.7
Treasure	24	3.4	1 932	1.9	147 703	1.7	8	6.5	220	11.4	9 860	10.4
Valley	94	2.7	14 888	1.1	590 473	1.2	29	5.6	1 164	6.4	57 688	4.6
Wheatland	40	2.8	17 293	.6	837 595	.7	21	4.6	1 082	3.9	65 534	3.9
Wibaux	42	3.2	3 995	2.8	142 635	2.9	39	3.4	2 376	2.4	107 457	2.2
Yellowstone	179	1.7	18 700	1.4	1 309 766	1.3	31	4.3	1 229	3.3	75 650	4.4

Geographic area	Selected crops harvested—Con.											
	Sugar beets for sugar						Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Montana	**415**	**1.1**	**59 345**	**.6**	**1 243 622**	**.6**	**13 536**	**.4**	**2 528 517**	**.3**	**4 745 596**	**.3**
Beaverhead	–	–	–	–	–	–	263	1.0	122 374	.7	278 745	.6
Big Horn	46	2.6	7 912	1.0	177 615	.9	301	1.1	64 535	1.2	136 892	1.0
Blaine	–	–	–	–	–	–	300	1.3	68 602	1.2	129 515	1.2
Broadwater	–	–	–	–	–	–	137	1.6	27 958	1.9	86 628	1.5
Carbon	64	2.5	6 681	2.0	134 175	1.8	420	.9	59 850	1.2	132 878	1.2
Carter	–	–	–	–	–	–	212	1.1	85 542	1.1	79 705	1.1
Cascade	–	–	–	–	–	–	515	1.0	81 695	1.4	141 091	1.5
Chouteau	–	–	–	–	–	–	234	1.5	44 349	1.9	64 835	1.8
Custer	23	5.5	2 077	5.5	45 708	5.6	259	1.2	46 607	1.3	82 998	1.3

See footnotes at end of table.

Table F. **Reliability Estimates for the State and County Totals: 1997**—Con.

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

Geographic area	Selected crops harvested—Con.											
	Sugar beets for sugar						Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Daniels	–	–	–	–	–	–	133	2.3	22 836	2.1	27 650	2.1
Dawson	25	3.8	3 065	2.8	61 490	2.9	279	1.2	44 230	1.6	60 449	1.6
Deer Lodge	–	–	–	–	–	–	61	1.8	12 143	2.9	25 636	2.5
Fallon	–	–	–	–	–	–	198	1.4	58 380	1.6	47 172	2.0
Fergus	–	–	–	–	–	–	556	.8	146 401	.9	229 744	.9
Flathead	–	–	–	–	–	–	541	1.0	33 242	2.1	74 552	2.0
Gallatin	1	–	(D)	(D)	(D)	(D)	525	1.0	73 766	1.2	198 261	1.1
Garfield	–	–	–	–	–	–	137	1.7	33 506	2.0	42 554	2.9
Glacier	–	–	–	–	–	–	151	2.0	31 704	2.0	54 128	1.9
Golden Valley	–	–	–	–	–	–	76	1.5	18 557	1.6	29 493	1.4
Granite	–	–	–	–	–	–	85	1.6	28 515	1.4	68 324	1.5
Hill	–	–	–	–	–	–	179	1.9	24 504	2.6	26 979	2.8
Jefferson	–	–	–	–	–	–	151	1.7	24 533	1.8	58 174	1.4
Judith Basin	–	–	–	–	–	–	229	1.2	75 674	1.2	130 059	1.4
Lake	–	–	–	–	–	–	529	1.0	55 736	1.7	147 123	1.7
Lewis and Clark	–	–	–	–	–	–	329	1.1	44 020	1.4	104 071	1.0
Liberty	–	–	–	–	–	–	59	2.6	11 954	2.5	18 984	2.0
Lincoln	–	–	–	–	–	–	164	1.5	8 663	3.1	14 407	3.9
McCone	–	–	–	–	–	–	204	1.3	44 382	1.5	52 746	2.0
Madison	–	–	–	–	–	–	307	1.0	73 813	.9	204 675	.8
Meagher	–	–	–	–	–	–	94	1.5	46 056	1.2	103 923	1.1
Mineral	–	–	–	–	–	–	43	3.2	2 402	5.3	5 283	6.2
Missoula	–	–	–	–	–	–	266	1.4	20 080	2.8	42 607	2.8
Musselshell	–	–	–	–	–	–	136	1.7	27 079	1.4	47 554	1.8
Park	–	–	–	–	–	–	282	1.1	58 568	1.3	134 787	1.3
Petroleum	–	–	–	–	–	–	57	2.1	18 700	2.0	30 916	1.4
Phillips	–	–	–	–	–	–	288	1.2	78 092	1.1	119 079	1.3
Pondera	–	–	–	–	–	–	218	1.5	31 771	2.1	69 899	1.8
Powder River	–	–	–	–	–	–	236	1.0	74 354	1.1	100 005	1.0
Powell	–	–	–	–	–	–	173	1.2	54 636	1.1	134 658	1.4
Prairie	21	5.0	2 738	2.7	53 435	2.6	102	1.6	17 038	2.2	25 586	2.2
Ravalli	–	–	–	–	–	–	682	.9	38 627	1.5	104 690	1.7
Richland	107	2.2	19 220	1.3	385 104	1.3	317	1.2	50 317	1.1	81 862	1.0
Roosevelt	9	8.7	880	3.2	14 400	2.0	270	1.4	47 884	1.9	63 475	2.0
Rosebud	9	4.3	2 238	.9	45 969	.5	205	1.4	45 813	1.0	85 993	1.0
Sanders	–	–	–	–	–	–	292	1.2	31 021	2.0	63 706	2.0
Sheridan	1	31.1	(D)	(D)	(D)	(D)	229	1.4	36 282	1.8	46 267	1.6
Silver Bow	–	–	–	–	–	–	56	2.9	7 321	3.9	16 840	4.7
Stillwater	8	7.2	(D)	(D)	(D)	(D)	301	1.1	55 897	1.3	95 090	1.2
Sweet Grass	–	–	–	–	–	–	196	1.3	47 413	1.4	88 226	1.6
Teton	–	–	–	–	–	–	276	1.2	61 447	1.4	151 101	1.3
Toole	–	–	–	–	–	–	107	2.0	18 006	2.0	24 275	2.2
Treasure	20	3.8	4 061	.9	99 331	.9	63	1.8	12 982	2.1	28 058	2.5
Valley	–	–	–	–	–	–	306	1.4	59 752	1.7	112 852	1.8
Wheatland	–	–	–	–	–	–	97	1.5	44 990	1.2	80 926	1.3
Wibaux	–	–	–	–	–	–	115	1.7	21 833	2.2	24 361	3.6
Yellowstone	81	2.4	9 755	1.5	211 375	1.3	595	.9	52 085	1.2	115 109	1.2

[1]Data are based on a sample of farms.

Table G. **Coverage Estimates: 1997**

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

Item	Census total	Coverage total[1]	Adjusted census		Coverage adjustment (percent)
			Total	Relative standard error (percent)	
Farms ..... number	24 279	3 344	27 623	3.5	12.1
Land in farms ..... acres	58 607 778	454 290	59 062 068	.5	.8
Average size of farm ..... acres	2 414	136	2 138	(X)	(X)
Farms by size of farm:					
Less than 10 acres	898	685	1 583	35.6	43.3
10 to 49 acres	3 570	1 687	5 257	8.7	32.1
50 to 179 acres	3 575	455	4 030	5.0	11.3
180 acres or more	16 236	517	16 753	1.5	3.1
Farms by value of sales:					
Less than $2,500	4 996	2 608	7 604	9.8	34.3
$2,500 to $9,999	4 332	521	4 853	4.4	10.7
$10,000 or more	14 951	215	15 166	1.3	1.4
Market value of agricultural products sold $1,000	1 870 732	11 755	1 882 487	.7	.6
Farms by type of organization:					
Individual or family	18 751	3 351	22 102	4.3	15.2
Partnership, corporation, or other	5 528	–7	5 521	2.8	–.1
Farms by tenure of operator:					
Full owners	12 569	2 581	15 150	4.8	17.0
Part owners	8 826	344	9 170	1.6	3.8
Tenants	2 884	419	3 303	9.1	12.7
Operators by place of residence:					
On farm operated	17 907	2 777	20 684	4.5	13.4
Not on farm operated	4 615	482	5 097	4.7	9.5
Not reported	1 757	85	1 842	9.4	4.6
Operators by principal occupation:					
Farming	15 703	1 083	16 786	2.4	6.5
Other	8 576	2 261	10 837	6.4	20.9
Operators by sex:					
Male	21 951	2 861	24 812	3.8	11.5
Female	2 328	483	2 811	7.8	17.2
Operators by race:					
White	23 608	3 262	26 870	2.8	12.1
Black and other races	671	82	753	36.0	10.9
Operators by years on present farm:					
4 years or less	2 733	629	3 362	6.0	18.7
5 years or more	17 806	1 934	19 740	2.4	9.8
Not reported	3 740	781	4 521	13.5	17.3

[1] See text in Appendix C regarding coverage estimates.