

Appendix C.

Statistical Methodology

MAIL LIST MODEL

Classification analysis was performed to predict the probability that an addressee on the 1992 mail list operated a farm, and thereby separated the preliminary mail list into probable farm and probable nonfarm classes. The analysis was used to reduce the preliminary census mail list of 3.78 million records to a final mail list size of 3.55 million records. All 3.55 million addresses on the final mail list received a census of agriculture report form.

Records from the 1987 final census mail list were used to build a 1992 prediction model for the 1992 analysis. Classification and Regression Trees (CART) software analyzed characteristics of known 1987 farm and nonfarm operations to determine which were most useful in predicting farm and nonfarm classes. Record characteristics such as the source of the mail list record, number of source lists on which the record appeared, expected value of agricultural sales, and geographic location were used to separate mail list records into model groups. (Sources included the previous agriculture census mail list, the Internal Revenue Service administrative records, U.S. Department of Agriculture, and special commodity lists.) The proportion of 1987 census farm records in each model group was calculated to provide an estimate of the probability that an addressee in the group operated a farm.

After the model groups were defined, each address record on the 1992 preliminary 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 according to the classification tree methodology. The model, followed by analyst reviews, was used to remove 229,700 records from the preliminary mail list (those in model groups with the lowest farm probability), and thereby designated the 3.55 million records with the highest farm probability to receive the census report form. This procedure was used to obtain a more complete census enumeration of farm operations without excessive respondent burden and data collection cost.

CENSUS SAMPLE DESIGN

Each of the 3.55 million name and address records on the census mail list was designated to receive one of three different types of census report forms. The three forms were the nonsample form, the screener form, and the

sample form. Sections 1 through 20 and 27 through 32 of the sample form are identical to sections on the non-sample form. The sample form, sections 21 through 26, contains additional questions on usage of fertilizers and chemicals, farm production expenditures, value of machinery and equipment, value of land and buildings, and farm-related income. The screener form is identical to the nonsample form with questions added in section 1 to allow quick identification of nonfarm addresses. These three 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. Addresses were selected into the sample with certainty (1) if they were expected to have large total value of agricultural products sold or large acreage, (2) if they were multiunit operations (i.e., separate farms in more than one location), (3) if they had other special characteristics, or (4) if they were in a county with less than 100 farms in 1987. Other addresses in counties containing 100 to 199 farms in 1987 were systematically sampled at a rate of 1 in 2, and other addresses in counties containing 200 farms or more in 1987 were systematically sampled at a rate of 1 in 6. This differential sampling scheme was used to provide reliable data for the sample sections of the report form for all counties. When a nonsample large farm was identified during processing, a supplemental form that contained the additional sample data inquiries was mailed.

To determine which mail list records would receive the screener form, all mail list records not designated for the sample were sorted by model group farm probability as specified by the mail list model. The 412,000 mail list records in the model groups with the lowest probability of being farms and with an expected total value of agricultural product sales less than \$25,000 were designated to receive the screener report form. The remaining mail list records received the nonsample report form.

CENSUS ESTIMATION

The 1992 Census of Agriculture used two types of statistical estimation procedures. These estimation procedures accounted for nonresponse to the data collection and for the sample data collection. These procedures are necessary because some farm operators never respond to

the census despite numerous attempts to contact them, and the estimates for the sample data are based on a sample of farm operators rather than a full enumeration.

Whole Farm Nonresponse Estimation

A statistical estimation procedure was used to account for nonrespondent farm operators to the census. We excluded large and unique farm operations that received intensive telephone followup during census processing, assuming complete response from them. A stratified systematic sample of remaining census nonrespondents were contacted by enumerators using a computer-assisted telephone interview system. Five sample strata were defined based on expected value of sales, previous census status, and whether the record was identified by the mail list model to receive the screener report form. The nonresponse survey telephone interview was designed to provide sufficient information to determine the farm status of each record.

In situations where the nonresponse survey case could not be contacted, the contact person refused to cooperate, or when no phone number could be obtained, a screener report form was sent by certified mail.

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

Certain census respondent farms which exhibited "rare" commodities were designated as "ineligible" to represent census nonrespondent farms and were excluded from the nonresponse weighting operation. The procedure explained below was performed with only the eligible respondent cases: Within each stratum in a county, a noninteger nonresponse weight was calculated and assigned to each eligible respondent farm record. 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 to the number of eligible census respondent farms. Stratum controls were established to ensure that this weight was never greater than 2.0. The noninteger nonresponse weight was used in the calculation of the final weight for the sample items. The noninteger nonresponse weight was randomly rounded to an integer weight of either 1 or 2 for each record for tabulating the complete count items for publication.

Table A quantifies the effect of the nonresponse estimation procedure on selected census data items. The percentages in these tables are the 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 these tables do not reflect the effect of item nonresponse to individual census data items. The effect of item nonresponse is discussed in the Census Nonsampling Error section.

Table A. **Percent of State Totals Contributed by Whole Farm Nonresponse Estimation: 1992**

Item	Percent of total
Farms	17.1
Land in farms.....	9.8
Estimated market value of land and buildings ¹	4.0
Market value of agricultural products sold	7.0
Harvested cropland	8.2
Corn for grain or seed	4.7
Wheat for grain	8.2
Livestock and poultry inventory:	
Cattle and calves	11.8
Hogs and pigs	9.3
Hens and pullets of laying age.....	2.5

¹Data are based on a sample of farms.

Sample Estimation

Sample data estimates the population totals that would have resulted from a complete census for the items in sections 21 through 26 of the sample report form. The estimates were obtained from a ratio estimation procedure that resulted in the assignment of 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 in the county.

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 would be multiplied by 6. The weight assigned to a sample certainty farm was 1.

Other than certainty farms, within a county, the ratio estimation procedure for farms was performed in three steps using three variables. The first variable contained eight 1992 total value of agricultural production (TVP) groups. Both the second and third variables, Standard Industrial Classification (SIC) code and farm acreage, contained two groups. The three sets of groups were as follows:

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

The second step in the estimation procedure was to combine, if necessary, the 32 initial post strata to increase the reliability of the ratio estimation procedure. Any stratum that contained less than 10 sample farms after nonresponse adjustment or had a weight greater than two times the mail sample rate was collapsed with another stratum. The mail sample rate was either 2 or 6, depending on whether the county had a 1 in 2 or 1 in 6 sample selection rate. The collapsing occurred within the initial 32 post 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 of the final post strata and were used to calculate final sample weights.

The final step consisted of assigning the noninteger final post stratum weight to the sample farm records in each post stratum. The weight is the ratio of total farm count to sample farm count in each final post stratum. The noninteger sample weight, the product of the noninteger final post stratum weight and the nonresponse weight, was randomly rounded to an integer weight for tabulation. If, for example, the final weight for the farms in a particular post stratum was 7.2, then 0.2 or one-fifth of the sample farms in this post stratum were randomly assigned a weight of 8 and the remaining four-fifths received a weight of 7.

CENSUS SAMPLING ERROR

The sample for the 1992 Census of Agriculture is only one of a large number of possible samples of the same size that could have been selected using the same sample design. Sample refers to the sample for both the nonresponse survey and the selection of farms to receive the sample report forms. Estimates derived from all the possible samples would differ from each other only by random variation.

The standard error or sampling error of a survey estimate is a measure of the variation among the estimates from all possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The percent relative standard error of an estimate is defined as 100 times the standard error of the estimate divided by the value of the estimate.

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

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

The following example illustrates the computations necessary for producing a confidence interval 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 .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 figure obtained from a complete enumeration. 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. Complete count items were asked of all farm operators. 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.

Sample count items were asked only of a sample of farm operators. These items appeared only in sections 21 through 26 of the sample report 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, and farm-related income.

Variability, measured as percent relative standard error, in the estimates of complete count items is due only to the nonresponse survey estimation procedure. Variability in the estimates of sample count items is due to both the nonresponse survey estimation procedure and the census sample selection and estimation procedure. Thus, variability in the sample count item estimates tends to be larger than the variability in the complete count item estimates.

Table B provides the generalized reliability estimates of the estimated number of farms in a county reporting complete count and sample count items. The top half of the table shows the percent relative standard error for estimated number of farms in a county reporting a complete count item and the bottom half a sample count item. These are derived from regression equations. Separate regression equations were used for complete count items and sample count items. 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 all counties in the State. For sample count items, only data

from counties sampled at a rate of 1 in 6 are used in the estimation of the regression equation.

Table B. Reliability Estimates for Number of Farms in a County Reporting a Complete Count Item or Sample Count Item: 1992

Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM	
Number of farms reporting:	
25	6.6
50	4.7
75	3.9
100	3.4
150	2.9
200	2.5
300	2.2
500	1.8
750	1.6
1,000	1.5
1,500	1.4
2,000	(NA)
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	22.5
50	17.6
75	15.6
100	14.5
150	13.4
200	12.7
300	12.1
500	11.5
750	11.3
1,000	11.1
1,500	11.0
2,000	(NA)

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 1987 Census of Agriculture, variability in sample count item estimates comes only from nonresponse survey estimation procedures; thus, the estimated relative standard error for a sample count item in these counties may be obtained using the first part of table B.

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 percent standard error for percent change in State totals from 1987 to 1992. 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 1992 and the 1987 estimate for that characteristic to the 1987 estimate. This ratio is multiplied by 100 to obtain the percent change. The percent standard error of a percent change estimate, then, is the standard error of the ratio multiplied by 100.

Table F presents the 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 (1) the total number of farms, (2) the number of large farms included with certainty, (3) the size classifications of the farms sampled, (4) the amount of nonresponse, (5) the general agricultural characteristics, and (6) the specific characteristic being measured.

CENSUS NONSAMPLING ERROR

The accuracy of the census counts are affected 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 on specific operations. Nonsampling errors arise from incompleteness of the census mail list, duplication in the mail list, incorrect data reporting, errors in editing of reported data, and errors in imputation for missing data. These specific nonsampling errors are further discussed in this section. Evaluation studies will be conducted to measure the extent of certain nonsampling errors such as coverage error and classification error.

Census Coverage

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

The past five censuses of agriculture have included approximately 91 percent of farms in the United States and approximately 96 percent of agriculture production. Complete enumeration of agricultural operations satisfying the farm definition of \$1,000 or more in agricultural sales is complicated by fluctuations in agricultural operations qualifying for enumeration, the variety of arrangements under which farms are operated, the multiplicity of names used

by an operation, the number of operations in which an operator participates, the accuracy of data reporting, and other factors. A new mail list is compiled for each census because no current single list of agricultural operations is comprehensive.

An evaluation of census coverage has been conducted for each census of agriculture since 1945. The evaluation provides estimates of the completeness of census farm count and major census data items. In addition, the evaluation helps to identify problems in the census enumeration and provide information that can form the basis for improvements. The results of the 1992 Coverage Evaluation program will be published in volume 2, Subject Series (Part 2): Coverage Evaluation.

The evaluation of coverage for the 1992 census was designed to measure four components of error in the census mail list and in farm classification. Mail list error includes two components of error, a measurement of farms not on the census mail list (undercount) and a measurement of farms enumerated more than once in the census (overcount). Classification error includes two components of error, a measurement of farms classified as nonfarms in the census (undercount) and of nonfarms classified as farms in the census (overcount). Classification error arises from reporting and processing errors. Mail list undercount dominates all coverage errors. Net coverage error is defined as the difference between undercounted and overcounted farms. Measurements of these errors, as well as a description of the complete coverage program, will be available in the Coverage Evaluation report.

Mail List Coverage

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

The 1992 Census of Agriculture Coverage Evaluation used the area segment sample of the 1992 June Agricultural Survey (JAS) of the National Agricultural Statistical Service (NASS) to estimate farms not on the census mail list. The Census Bureau contracted with NASS to augment the JAS data collection. The survey data collected by NASS will be protected under the confidentiality of title 13, U.S. Code. These JAS survey records were matched to the census mail list. Records that did not match were mailed a census of agriculture report form to estimate mail list

coverage. Estimates of farms not on the census mail list are computed using a capture-recapture dual frame estimator which will be described in the Coverage Evaluation report mentioned earlier.

Table G provides coverage evaluation estimates for one component of coverage error associated with the census of agriculture; that is, the error due to farms not on the census mail list. Also provided are estimates of selected characteristics of farms not on the mail list, estimates of characteristics of farms not on the mail list as a percentage of total farms in the State, and the percent relative standard error associated with each estimate. The estimate of total farms in the State is based on census farm count plus the estimated number of farms not on the census mail list. This estimate of total farms in the State was not adjusted for the components of error associated with classification and list duplication error. Estimates of these errors will be made at the regional, rather than the State level, and will be provided in the Coverage Evaluation report mentioned earlier.

Respondent and Enumerator Error

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

Item Nonresponse

As information flows from data collection to tabulation, various types of item nonresponses are identified on the report forms. Nonresponse to particular questions on the report form that logically should be present may create a type of nonsampling error in both complete count and sample count data. When information from reporting farms is used to edit or impute for item nonresponse, the data may be biased due to characteristics of the nonreporting respondents differing from those reporting the item. Any attempt to correct the data items may not completely reflect this difference either at the element level (individual farm operation) or on the average.

Processing Error

All phases of processing for each report form are sources for the introduction of nonsampling error. The processing of the report forms includes clerical screening for farm activity, computerized check-in of report forms and follow-up of nonrespondents, keying and transmittal of

completed report forms, computerized editing of inconsistent and missing data, review and correction of individual records referred from the computer edit, review and correction of tabulated data, and electronic data processing. These operations undergo a number of quality control checks to ensure as accurate an application as possible, yet some errors are not detected and corrected.

Classification Error

An evaluation study of classification errors was conducted in the 1992 Census of Agriculture as part of the census coverage evaluation program. A sample of census mail list respondents was selected, and these addresses were reenumerated to determine whether they were a farm or nonfarm. A farm status determination was made based on the evaluation report form and compared with the census farm status which was based on the data reported on the report form. Differences in status were reconciled.

In past censuses, the proportion of farms undercounted due to classification errors was higher for farms with small values of sales. For the 1987 census, the classification error rate was higher for (1) farms with small values of sales, (2) farms with a small number of acres, (3) full-owner farms than part-owner or tenant farms, (4) operators with principal occupation other than farming, and (5) males than females. Results from the 1992 Classification Error Survey will be published in the Coverage Evaluation report.

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

The Census of Agriculture Complex Edit and Imputation System performs the following functions:

- Ensuring reasonable relationships between/among data items, values for various sizes of farms, and combinations of commodities.
- Ensuring necessary consistencies are present. There are more than 70 distinct consistency requirements.
- Ensuring geographic, legal, and physical constraints are met.

The system must perform these and similar functions for 900 data keycodes for sample records and 850 data keycodes for nonsample records.

For the 1992 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 from the previous census were used when available. Values for other missing or unacceptable reported data items were calculated based on reported quantities and known price parameters.

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

Prior to the imputation operation, a set of default values and relationships were assigned to the possible imputation variables. The relationships and values varied depending on the item being imputed. For example, different default values were assigned for several standard industrial classification and total value of sales categories when imputing hired farm labor expenses. These values and item relationships for the possible imputation variables were stored in the computer in a series of matrices.

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

After the initial computer edit, keyed reports not meeting the census farm definition were reviewed to ensure that the data were keyed correctly. Edit referrals were generated for about 25 percent of the reports included as farms; they were reviewed for keying accuracy to ensure that the computer edit actions were correct. If the results of the computer edit were not acceptable, corrections were made and the record was reedited.

Table C. Reliability Estimates of State Totals for All Farms: 1992

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			FARM PRODUCTION EXPENSES¹		
Farms -----number--	31 123	1.7	Total farm production expenses -----farms--	31 124	1.7
Land in farms -----acres--	39 438 144	1.1	-----\$1,000--	2 090 938	.9
Average size of farm -----acres--	1 267	2.0	Average per farm -----dollars--	67 181	2.0
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			Livestock and poultry purchased -----farms--		
Total sales (see text) -----farms--	31 123	1.7	-----\$1,000--	143 982	2.5
-----\$1,000--	2 745 752	.8	-----farms--	14 372	2.2
Average per farm -----dollars--	88 223	1.9	Commercially mixed formula feeds -----farms--	104 335	2.1
Farms by value of sales:			-----\$1,000--	30 787	3.3
Less than \$1,000 (see text) -----farms--	1 269	2.1	Seeds, bulbs, plants, and trees -----farms--	21 636	1.8
-----\$1,000--	268	2.5	-----\$1,000--	117 860	.9
\$1,000 to \$2,499 -----farms--	870	2.1	Commercial fertilizer -----farms--	19 856	1.7
-----\$1,000--	1 495	2.2	-----\$1,000--	200 797	.7
\$2,500 to \$4,999 -----farms--	1 363	2.1	Agricultural chemicals -----farms--	21 373	1.8
-----\$1,000--	4 994	2.1	-----\$1,000--	161 765	.9
\$5,000 to \$9,999 -----farms--	2 191	2.2	Petroleum products -----farms--	30 299	1.8
-----\$1,000--	16 068	2.3	-----\$1,000--	181 040	1.1
\$10,000 to \$19,999 -----farms--	3 474	2.6	Electricity -----farms--	25 489	1.8
-----\$1,000--	50 854	2.6	-----\$1,000--	33 698	1.3
\$20,000 to \$24,999 -----farms--	1 377	2.9	Hired farm labor -----farms--	11 895	1.9
-----\$1,000--	30 641	2.9	-----\$1,000--	99 790	.7
-----\$1,000--			Contract labor -----farms--	2 800	3.7
\$25,000 to \$39,999 -----farms--	3 521	2.7	-----\$1,000--	9 370	2.6
-----\$1,000--	112 475	2.7	Repair and maintenance -----farms--	28 340	1.8
\$40,000 to \$49,999 -----farms--	1 878	2.7	-----\$1,000--	191 111	1.2
-----\$1,000--	83 802	2.7	Customwork, machine hire, and rental of machinery and equipment -----farms--	15 304	2.0
\$50,000 to \$99,999 -----farms--	6 502	2.1	-----\$1,000--	64 170	1.5
-----\$1,000--	467 032	2.0	Interest expense -----farms--	20 696	1.8
\$100,000 to \$249,999 -----farms--	6 525	.6	-----\$1,000--	213 388	1.2
-----\$1,000--	1 004 031	.5	Secured by real estate -----farms--	13 703	2.0
\$250,000 to \$499,999 -----farms--	1 640	—	-----\$1,000--	123 687	1.4
-----\$1,000--	549 501	—	Not secured by real estate -----farms--	14 458	2.0
\$500,000 or more -----farms--	513	—	-----\$1,000--	89 700	1.3
-----\$1,000--	424 592	—	Cash rent -----farms--	16 577	1.8
Sales by commodity or commodity group:			-----\$1,000--	277 212	1.0
Crops, including nursery and greenhouse crops -----farms--	25 312	1.7	Property taxes -----farms--	26 816	1.8
-----\$1,000--	2 030 900	.7	-----\$1,000--	56 779	1.7
Grains -----farms--	23 947	1.7	All other farm production expenses -----farms--	30 160	1.8
-----\$1,000--	1 756 303	.7	-----\$1,000--	235 642	1.1
Corn for grain -----farms--	2 494	1.1	NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
-----\$1,000--	61 219	.5	All farms -----number--	31 124	1.7
Wheat -----farms--	22 908	1.7	-----\$1,000--	652 308	1.2
-----\$1,000--	1 145 980	.8	Average per farm -----dollars--	20 958	2.1
Soybeans -----farms--	2 841	1.0	Farms with net gains ² -----number--	21 933	1.8
-----\$1,000--	80 260	.5	-----\$1,000--	746 126	1.1
Sorghum for grain -----farms--	14	5.9	Average net gain -----dollars--	34 018	2.1
-----\$1,000--	88	8.9	Farms with net losses -----number--	9 191	2.7
Barley -----farms--	12 491	1.4	-----\$1,000--	93 819	2.8
-----\$1,000--	222 330	.6	Average net loss -----dollars--	10 208	3.8
Oats -----farms--	4 300	2.1	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
-----\$1,000--	20 481	1.6	Government payments -----farms--	23 697	1.7
Other grains -----farms--	8 896	1.2	-----\$1,000--	304 271	1.1
-----\$1,000--	225 943	.5	Other farm-related income ¹ -----farms--	12 959	2.2
Cotton and cottonseed -----farms--	—	—	-----\$1,000--	64 555	3.3
-----\$1,000--	—	—	Customwork and other agricultural services -----farms--	3 619	3.3
Tobacco -----farms--	—	—	-----\$1,000--	23 173	4.0
-----\$1,000--	—	—	Gross cash rent or share payments -----farms--	4 377	3.6
Hay, silage, and field seeds -----farms--	5 192	1.9	-----\$1,000--	33 103	5.3
-----\$1,000--	31 691	1.6	Forest products and Christmas trees -----farms--	101	20.8
Vegetables, sweet corn, and melons -----farms--	131	3.4	-----\$1,000--	318	19.2
-----\$1,000--	1 022	4.6	Other farm-related income sources -----farms--	8 814	2.5
Fruits, nuts, and berries -----farms--	32	6.3	-----\$1,000--	7 961	4.6
-----\$1,000--	106	2.8	COMMODITY CREDIT CORPORATION LOANS		
Nursery and greenhouse crops -----farms--	117	3.3	Total -----farms--	5 764	1.4
-----\$1,000--	6 772	2.6	-----\$1,000--	144 439	.6
Other crops -----farms--	1 328	1.0			
-----\$1,000--	235 007	.3			
Livestock, poultry, and their products -----farms--	17 222	1.8			
-----\$1,000--	714 852	1.2			
Poultry and poultry products -----farms--	478	2.3			
-----\$1,000--	14 570	.7			
Dairy products -----farms--	1 647	2.0			
-----\$1,000--	104 589	1.4			
Cattle and calves -----farms--	15 249	1.9			
-----\$1,000--	516 914	1.2			
Hogs and pigs -----farms--	2 033	1.8			
-----\$1,000--	52 133	1.1			
Sheep, lambs, and wool -----farms--	1 710	1.9			
-----\$1,000--	11 776	1.7			
Other livestock and livestock products (see text) -----farms--	1 149	1.9			
-----\$1,000--	14 871	1.8			
Value of agricultural products sold directly to individuals for human consumption (see text) -----farms--	500	2.1			
-----\$1,000--	890	2.2			

See footnotes at end of table.

Table C. Reliability Estimates of State Totals for All Farms: 1992 — Con.

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			TENURE OF OPERATOR		
Total cropland ----- farms ..	28 967	1.7	All operators ----- farms ..	31 123	1.7
Harvested cropland ----- farms ..	27 804	1.7	Full owners ----- farms ..	39 438 144	1.1
1 to 9 acres ----- farms ..	335	2.5	Part owners ----- farms ..	9 898	2.1
10 to 19 acres ----- farms ..	1 507	2.8	Tenants ----- farms ..	7 130 011	1.7
20 to 29 acres ----- farms ..	460	2.4	Tenants ----- farms ..	16 058	1.5
30 to 49 acres ----- farms ..	6 008	2.4	Tenants ----- farms ..	27 481 619	1.0
50 to 99 acres ----- farms ..	392	2.7	Tenants ----- farms ..	5 167	2.0
100 to 199 acres ----- farms ..	8 864	2.7	Tenants ----- farms ..	4 826 514	1.3
200 to 499 acres ----- farms ..	803	2.3	OWNED AND RENTED LAND		
500 to 999 acres ----- farms ..	30 061	2.3	Land owned ----- farms ..	26 340	1.7
1,000 acres or more ----- farms ..	1 674	2.4	Owned land in farms ----- farms ..	22 178 843	1.4
Cropland:	121 179	2.4	Owned land in farms ----- farms ..	25 956	1.7
Pasture or grazing only ----- farms ..	3 244	2.5	Owned land in farms ----- farms ..	19 856 683	1.3
Other cropland ----- farms ..	465 523	2.5	Land rented or leased from others ----- farms ..	21 357	1.6
Total woodland ----- farms ..	7 304	2.6	Land rented or leased from others ----- farms ..	19 833 878	.9
Pastureland and rangeland other than cropland and ----- farms ..	2 442 104	2.6	Land rented or leased from others ----- farms ..	60 577	1.2
woodland pastured ----- farms ..	7 202	2.0	Land rented or leased from others ----- farms ..	21 225	1.6
Land in house lots, ponds, roads, wasteland, etc. ----- farms ..	5 163 337	1.9	Land rented or leased from others ----- farms ..	19 581 461	.9
Irrigated land ----- farms ..	6 390	—	Land rented or leased from others ----- farms ..	5 636	1.9
Acres irrigated:	10 977 948	—	Land rented or leased from others ----- farms ..	2 574 577	1.8
1 to 9 acres ----- farms ..	7 644	1.9	OPERATOR CHARACTERISTICS		
10 to 49 acres ----- farms ..	1 714 882	1.9	Operators by place of residence:		
50 to 99 acres ----- farms ..	23 343	1.7	On farm operated ----- farms ..	21 830	1.7
100 to 199 acres ----- farms ..	6 538 462	1.4	Not on farm operated ----- farms ..	6 812	2.0
200 to 499 acres ----- farms ..	3 305	1.5	Not reported ----- farms ..	2 481	1.5
500 to 999 acres ----- farms ..	342 485	1.5	Operators by principal occupation:		
1,000 acres or more ----- farms ..	14 565	1.9	Farming ----- farms ..	25 189	1.7
Land under federal acreage reduction programs:	10 284 485	1.2	Other ----- farms ..	5 934	2.0
Diverted under annual commodity programs ----- farms ..	18 693	1.7	Operators by days worked off farm:		
Conservation Reserve or Wetlands Reserve ----- farms ..	1 341 299	1.5	Any ----- farms ..	11 827	1.9
Programs ----- farms ..	816	1.5	200 days or more ----- farms ..	4 916	2.0
Harvested cropland irrigated ----- farms ..	187 212	.8	Operators by sex:		
Pasture and other land irrigated ----- farms ..	99	3.8	Male ----- farms ..	30 184	1.7
Land under federal acreage reduction programs:	264	4.5	Female ----- farms ..	38 541 351	1.1
Diverted under annual commodity programs ----- farms ..	115	3.4	Average age of operator ----- years ..	50.0	2.4
Conservation Reserve or Wetlands Reserve ----- farms ..	3 061	3.4	FARMS BY TYPE OF ORGANIZATION		
Programs ----- farms ..	108	3.5	Individual or family (sole proprietorship) ----- farms ..	27 093	1.8
100 to 199 acres ----- farms ..	7 526	3.6	Partnership ----- farms ..	31 657 333	1.2
200 to 499 acres ----- farms ..	202	2.0	Partnership ----- farms ..	3 504	1.6
500 to 999 acres ----- farms ..	28 026	2.1	Partnership ----- farms ..	5 621 486	.8
1,000 acres or more ----- farms ..	195	1.5	Corporation:		
Harvested cropland irrigated ----- farms ..	60 928	1.4	Family held ----- farms ..	325	1.1
Pasture and other land irrigated ----- farms ..	73	1.0	Family held ----- farms ..	647 738	.4
Land under federal acreage reduction programs:	50 437	.9	More than 10 stockholders ----- farms ..	2	24.8
Diverted under annual commodity programs ----- farms ..	24	1.6	10 or less stockholders ----- farms ..	323	1.0
Conservation Reserve or Wetlands Reserve ----- farms ..	36 970	1.6	Other than family held ----- farms ..	24	7.1
Programs ----- farms ..	797	1.5	Other than family held ----- farms ..	26 387	7.7
Pasture and other land irrigated ----- farms ..	181 878	.8	More than 10 stockholders ----- farms ..	2	31.4
Land under federal acreage reduction programs:	58	4.2	10 or less stockholders ----- farms ..	22	7.2
Diverted under annual commodity programs ----- farms ..	5 334	11.5	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	177	3.0
Conservation Reserve or Wetlands Reserve ----- farms ..	13 702	1.5	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	1 485 200	.3
Programs ----- farms ..	545 854	.8	HIRED FARM LABOR		
Conservation Reserve or Wetlands Reserve ----- farms ..	8 615	1.8	Hired workers by days worked:		
Programs ----- farms ..	2 120 670	1.8	150 days or more ----- farms ..	4 472	2.3
VALUE OF LAND AND BUILDINGS ¹			Less than 150 days ----- farms ..	7 115	1.7
Estimated market value of land and buildings ----- farms ..	31 124	1.7	Less than 150 days ----- farms ..	10 633	2.1
Average per farm ----- \$1,000 ..	13 163 449	1.2	Less than 150 days ----- farms ..	29 860	2.0
Average per acre ----- dollars ..	422 936	2.1	INJURIES AND DEATHS		
Average per acre ----- dollars ..	335	1.7	Farm-related injuries:		
VALUE OF MACHINERY AND EQUIPMENT ¹			Operator and family members ----- farms ..	434	2.2
Estimated market value of all machinery and ----- farms ..	31 106	1.7	Operator and family members ----- farms ..	488	2.2
equipment ----- \$1,000 ..	2 715 228	1.3	Hired workers ----- farms ..	142	1.5
Average per farm ----- dollars ..	87 290	2.2	Hired workers ----- farms ..	170	1.3
AGRICULTURAL CHEMICALS ¹			Farm-related deaths:		
Commercial fertilizer ----- farms ..	19 817	1.7	Operator and family members ----- farms ..	4	14.7
acres on which used ----- farms ..	13 942 386	.9	Operator and family members ----- farms ..	4	14.7
			Hired workers ----- farms ..	1	—
			Hired workers ----- farms ..	(D)	(D)

See footnotes at end of table.

Table C. Reliability Estimates of State Totals for All Farms: 1992 — Con.

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS BY SIZE			LIVESTOCK		
1 to 9 acres ----- farms ..	785	2.2	Cattle and calves inventory ----- farms ..	15 183	1.9
----- acres..	1 882	2.4	number..	1 723 920	1.4
10 to 49 acres ----- farms ..	1 264	2.0	Beef cows ----- farms ..	13 216	1.9
----- acres..	33 625	2.1	number..	837 716	1.5
50 to 69 acres ----- farms ..	378	2.6	Milk cows ----- farms ..	1 925	2.0
----- acres..	21 784	2.6	number..	74 885	1.5
70 to 99 acres ----- farms ..	560	2.4	Cattle and calves sold ----- farms ..	15 249	1.9
----- acres..	46 109	2.4	number..	978 947	1.3
100 to 139 acres ----- farms ..	583	2.5	\$1,000..	516 914	1.2
----- acres..	67 754	2.5	Hogs and pigs inventory ----- farms ..	1 932	1.8
			number..	346 082	1.2
			Hogs and pigs sold ----- farms ..	2 033	1.8
			number..	603 910	1.2
			\$1,000..	52 133	1.1
			Sheep and lambs of all ages inventory ----- farms ..	1 623	1.9
			number..	217 240	1.7
			Sheep and lambs sold ----- farms ..	1 702	1.9
			number..	192 953	1.8
140 to 179 acres ----- farms ..	1 424	2.3	Horses and ponies inventory ----- farms ..	4 074	1.8
----- acres..	225 746	2.3	number..	24 914	1.8
180 to 219 acres ----- farms ..	527	2.6	Horses and ponies sold ----- farms ..	779	1.9
----- acres..	104 320	2.6	number..	4 842	2.3
220 to 259 acres ----- farms ..	547	2.6			
----- acres..	130 244	2.6	POULTRY		
260 to 499 acres ----- farms ..	3 911	2.5	Chickens 3 months old or older inventory ----- farms ..	838	2.4
----- acres..	1 482 037	2.5	number..	278 090	.5
500 to 999 acres ----- farms ..	6 714	2.5	Hens and pullets of laying age ----- farms ..	828	2.4
----- acres..	5 003 057	2.5	number..	246 952	.5
			Broilers and other meat-type chickens sold ----- farms ..	160	3.1
1,000 to 1,999 acres ----- farms ..	8 740	1.7	number..	38 573	3.1
----- acres..	12 417 081	1.7			
2,000 acres or more ----- farms ..	5 690	.5	CROPS HARVESTED		
----- acres..	19 904 505	.3	Corn for grain or seed ----- farms ..	3 353	1.0
			----- acres..	595 347	.6
			bushels..	37 487 419	.6
			Corn for silage or green chop ----- farms ..	3 443	1.6
			----- acres..	278 181	1.1
			tons, green ..	1 714 645	1.1
			Wheat for grain ----- farms ..	22 918	1.7
			----- acres..	10 627 608	.9
			bushels..	409 882 271	.8
			Barley for grain ----- farms ..	13 979	1.4
			----- acres..	2 388 696	.7
			bushels..	142 747 145	.6
			Oats for grain ----- farms ..	7 843	2.0
			----- acres..	557 388	1.6
			bushels..	33 414 633	1.5
			Sunflower seed ----- farms ..	5 287	1.1
			----- acres..	1 130 593	.6
			pounds..	1 260 442 267	.6
			Soybeans for beans ----- farms ..	2 849	1.0
			----- acres..	632 308	.5
			bushels..	16 116 007	.5
			Dry edible beans, excluding dry limas ----- farms ..	1 939	.9
			----- acres..	410 578	.4
			cwt..	5 278 675	.4
			Irish potatoes ----- farms ..	453	1.2
			----- acres..	139 511	.3
			cwt..	25 932 800	.2
			Sugar beets for sugar ----- farms ..	849	1.1
			----- acres..	201 111	.4
			tons..	3 415 499	.4
			Hay—alfalfa, other tame, small grain, wild, grass ----- farms ..	15 695	1.9
			----- acres..	2 467 853	1.7
			silage, green chop, etc. (see text) ----- farms ..	3 267 324	1.6
			----- acres..	10 893	1.9
			Alfalfa hay ----- farms ..	1 058 536	1.6
			----- acres..	1 598 591	1.5
			tons, dry..		

¹Data are based on a sample of farms.

²Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains of less than \$1,000.

Table D. Reliability Estimates of State Totals for Farms With Sales of \$10,000 or More: 1992

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			FARM PRODUCTION EXPENSES¹		
Farms ----- number ..	25 430	1.7	Total farm production expenses ----- farms ..	25 587	1.7
Land in farms ----- acres ..	36 849 516	1.1	Average per farm ----- \$1,000 ..	2 054 260	.9
Average size of farm ----- acres ..	1 449	2.0	----- dollars ..	80 285	1.9
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			Livestock and poultry purchased ----- farms ..		
Total sales (see text) ----- farms ..	25 430	1.7	----- \$1,000 ..	140 855	2.5
Average per farm ----- \$1,000 ..	2 722 927	.8	Feed for livestock and poultry ----- farms ..	12 444	2.3
----- dollars ..	107 075	1.9	Commercially mixed formula feeds ----- farms ..	102 174	2.1
Farms by value of sales:			----- \$1,000 ..	4 501	3.1
\$10,000 to \$19,999 ----- farms ..	3 474	2.6	----- \$1,000 ..	30 473	3.3
----- \$1,000 ..	50 854	2.6	Seeds, bulbs, plants, and trees ----- farms ..	19 958	1.8
\$20,000 to \$24,999 ----- farms ..	1 377	2.9	----- \$1,000 ..	116 735	.9
----- \$1,000 ..	30 641	2.9	Commercial fertilizer ----- farms ..	18 548	1.7
\$25,000 to \$39,999 ----- farms ..	3 521	2.7	----- \$1,000 ..	199 537	.7
----- \$1,000 ..	112 475	2.7	Agricultural chemicals ----- farms ..	19 636	1.8
\$40,000 to \$49,999 ----- farms ..	1 878	2.7	----- \$1,000 ..	160 233	.9
----- \$1,000 ..	83 802	2.7	Petroleum products ----- farms ..	25 382	1.7
----- \$1,000 ..			----- \$1,000 ..	176 372	1.1
\$50,000 to \$99,999 ----- farms ..	6 502	2.1	Electricity ----- farms ..	22 072	1.8
----- \$1,000 ..	467 032	2.0	----- \$1,000 ..	32 236	1.3
\$100,000 to \$249,999 ----- farms ..	6 525	.6	Hired farm labor ----- farms ..	11 102	1.9
----- \$1,000 ..	1 004 031	.5	----- \$1,000 ..	99 128	.7
\$250,000 to \$499,999 ----- farms ..	1 640	—	Contract labor ----- farms ..	2 573	3.8
----- \$1,000 ..	549 501	—	----- \$1,000 ..	9 198	2.6
\$500,000 or more ----- farms ..	513	—	Repair and maintenance ----- farms ..	24 300	1.8
----- \$1,000 ..	424 592	—	----- \$1,000 ..	185 562	1.1
Sales by commodity or commodity group:			Customwork, machine hire, and rental of machinery and equipment ----- farms ..	14 044	2.0
Crops, including nursery and greenhouse crops ----- farms ..	22 655	1.7	----- \$1,000 ..	63 138	1.5
----- \$1,000 ..	2 019 660	.7	----- \$1,000 ..	18 769	1.8
Grains ----- farms ..	22 088	1.6	Interest expense ----- farms ..	209 204	1.1
----- \$1,000 ..	1 747 721	.7	----- \$1,000 ..	12 455	2.0
Corn for grain ----- farms ..	2 449	1.0	Secured by real estate ----- farms ..	120 506	1.4
----- \$1,000 ..	61 111	.5	----- \$1,000 ..	13 416	1.9
Wheat ----- farms ..	21 308	1.6	Not secured by real estate ----- farms ..	88 698	1.3
----- \$1,000 ..	1 139 235	.8	----- \$1,000 ..		
Soybeans ----- farms ..	2 778	1.0	Cash rent ----- farms ..	15 513	1.8
----- \$1,000 ..	80 102	.5	----- \$1,000 ..	275 318	1.0
----- \$1,000 ..			Property taxes ----- farms ..	22 243	1.8
Sorghum for grain ----- farms ..	14	5.9	----- \$1,000 ..	52 670	1.6
----- \$1,000 ..	88	8.9	All other farm production expenses ----- farms ..	25 586	1.7
Barley ----- farms ..	12 127	1.3	----- \$1,000 ..	231 901	1.1
----- \$1,000 ..	221 706	.6	NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
Oats ----- farms ..	3 969	2.1	All farms ----- number ..	25 587	1.7
----- \$1,000 ..	19 969	1.6	----- \$1,000 ..	666 076	1.2
Other grains ----- farms ..	8 705	1.2	Average per farm ----- dollars ..	26 032	2.1
----- \$1,000 ..	225 511	.5	Farms with net gains ² ----- number ..	19 966	1.8
Cotton and cottonseed ----- farms ..	—	—	----- \$1,000 ..	741 629	1.1
----- \$1,000 ..	—	—	Average net gain ----- dollars ..	37 145	2.1
Tobacco ----- farms ..	—	—	Farms with net losses ----- number ..	5 621	3.2
----- \$1,000 ..	—	—	----- \$1,000 ..	75 554	3.0
Hay, silage, and field seeds ----- farms ..	4 182	1.9	Average net loss ----- dollars ..	13 441	4.4
----- \$1,000 ..	29 340	1.6	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Vegetables, sweet corn, and melons ----- farms ..	81	4.0	Government payments ----- farms ..	21 024	1.6
----- \$1,000 ..	902	5.1	----- \$1,000 ..	287 152	1.0
Fruits, nuts, and berries ----- farms ..	16	7.8	Other farm-related income ¹ ----- farms ..	11 140	2.2
----- \$1,000 ..	97	2.6	----- \$1,000 ..	55 646	3.3
Nursery and greenhouse crops ----- farms ..	78	4.0	Customwork and other agricultural services ----- farms ..	3 336	3.3
----- \$1,000 ..	6 629	2.7	----- \$1,000 ..	22 512	4.0
Other crops ----- farms ..	1 311	1.0	Gross cash rent or share payments ----- farms ..	3 183	3.8
----- \$1,000 ..	234 971	.3	----- \$1,000 ..	25 308	5.7
Livestock, poultry, and their products ----- farms ..	14 327	1.9	Forest products and Christmas trees ----- farms ..	44	28.2
----- \$1,000 ..	703 267	1.2	----- \$1,000 ..	156	7.2
Poultry and poultry products ----- farms ..	324	2.6	Other farm-related income sources ----- farms ..	8 117	2.4
----- \$1,000 ..	14 500	.7	----- \$1,000 ..	7 670	4.6
Dairy products ----- farms ..	1 626	2.0	COMMODITY CREDIT CORPORATION LOANS		
----- \$1,000 ..	104 499	1.4	Total ----- farms ..	5 618	1.4
Cattle and calves ----- farms ..	13 181	1.9	----- \$1,000 ..	144 104	.6
----- \$1,000 ..	508 247	1.2			
Hogs and pigs ----- farms ..	1 737	1.9			
----- \$1,000 ..	51 349	1.1			
Sheep, lambs, and wool ----- farms ..	1 230	2.1			
----- \$1,000 ..	10 776	1.8			
Other livestock and livestock products (see text) ----- farms ..	732	2.1			
----- \$1,000 ..	13 897	1.9			
Value of agricultural products sold directly to individuals for human consumption (see text) ----- farms ..	345	2.4			
----- \$1,000 ..	728	2.3			

See footnotes at end of table.

Table D. Reliability Estimates of State Totals for Farms With Sales of \$10,000 or More: 1992—Con.

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			FARMS BY TYPE OF ORGANIZATION		
Total cropland ----- farms ..	24 638	1.7	Individual or family (sole proprietorship) ----- farms ..	21 963	1.8
Harvested cropland ----- farms ..	26 538 866	1.0	Partnership ----- farms ..	30 206 201	1.2
acres ..	24 242	1.7	acres ..	3 002	1.6
farms ..	18 936 099	.9	acres ..	5 455 737	.8
acres ..			Corporation:		
farms ..	6 498	1.9	Family held ----- farms ..	322	1.0
acres ..	1 582 065	1.9	acres ..	646 618	.4
Total woodland ----- farms ..	2 730	1.5	More than 10 stockholders ----- farms ..	2	24.8
acres ..	295 482	1.5	10 or less stockholders ----- farms ..	320	1.0
Pastureland and rangeland other than cropland and woodland pastured ----- farms ..	11 869	1.9	Other than family held ----- farms ..	19	7.3
acres ..	8 785 833	1.2	acres ..	25 529	7.9
Land in house lots, ponds, roads, wasteland, etc. ----- farms ..	15 624	1.2	More than 10 stockholders ----- farms ..	1	43.3
acres ..	1 229 335	1.7	10 or less stockholders ----- farms ..	18	7.3
Irrigated land ----- farms ..	762	1.4	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	124	3.3
acres ..	185 948	1.5	acres ..	515 431	.8
farms ..	748	1.4			
acres ..	180 834	.8	HIRED FARM LABOR		
farms ..	51	4.1	Hired workers by days worked:		
acres ..	5 114	11.9	150 days or more ----- farms ..	4 306	2.3
Land under federal acreage reduction programs:			workers ..	6 941	1.7
Diverted under annual commodity programs ----- farms ..	13 171	1.5	Less than 150 days ----- farms ..	9 840	2.0
acres ..	542 924	.8	workers ..	28 555	2.0
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	7 106	1.7			
acres ..	1 745 294	1.6	INJURIES AND DEATHS		
VALUE OF LAND AND BUILDINGS ¹			Farm-related injuries:		
Estimated market value of land and buildings ----- farms ..	25 587	1.7	Operator and family members ----- farms ..	401	2.2
\$1,000 ..	12 193 760	1.1	number ..	451	2.2
Average per farm ----- dollars	476 561	2.1	Hired workers ----- farms ..	139	1.5
Average per acre ----- dollars	332	1.6	number ..	167	1.3
VALUE OF MACHINERY AND EQUIPMENT ¹			Farm-related deaths:		
Estimated market value of all machinery and equipment ----- farms ..	25 586	1.7	Operator and family members ----- farms ..	4	14.7
\$1,000 ..	2 608 505	1.2	number ..	(D)	(D)
Average per farm ----- dollars	101 950	2.1	Hired workers ----- farms ..	1	-
			number ..	(D)	(D)
AGRICULTURAL CHEMICALS¹			FARMS BY SIZE		
Commercial fertilizer ----- farms ..	18 543	1.7	1 to 9 acres -----	349	2.8
acres on which used ..	13 824 716	.8	10 to 49 acres -----	267	3.1
			50 to 69 acres -----	95	4.3
TENURE OF OPERATOR			70 to 99 acres -----	157	3.5
All operators ----- farms ..	25 430	1.7	100 to 139 acres -----	223	3.3
acres ..	36 849 516	1.1	140 to 179 acres -----	613	2.8
Full owners ----- farms ..	6 121	2.3	180 to 219 acres -----	274	3.1
acres ..	5 829 823	1.7	220 to 259 acres -----	354	3.0
Part owners ----- farms ..	15 107	1.4	260 to 499 acres -----	2 922	2.6
acres ..	26 917 778	.9	500 to 999 acres -----	6 037	2.5
Tenants ----- farms ..	4 202	2.2	1,000 to 1,999 acres -----	8 506	1.7
acres ..	4 101 915	1.5	2,000 acres or more -----	5 633	.5
OWNED AND RENTED LAND			FARMS BY STANDARD INDUSTRIAL CLASSIFICATION		
Land owned ----- farms ..	21 529	1.7	Cash grains (011) -----	16 144	1.5
acres ..	19 894 727	1.3	Field crops, except cash grains (013) -----	953	1.5
Owned land in farms ----- farms ..	21 228	1.7	Vegetables and melons (016) -----	13	10.7
acres ..	18 277 841	1.3	Fruits and tree nuts (017) -----	1	-
Land rented or leased from others ----- farms ..	19 389	1.6	Horticultural specialties (018) -----	56	4.8
acres ..	18 799 295	.9	General farms, primarily crop (019) -----	224	2.7
landlords -----	57 481	1.2	Livestock, except dairy, poultry, and animal specialties (021) -----	6 550	2.2
farms ..	19 309	1.5	Dairy farms (024) -----	1 003	2.2
acres ..	18 571 675	.9	Poultry and eggs (025) -----	36	4.1
Land rented or leased to others ----- farms ..	4 118	1.9	Animal specialties (027) -----	139	3.3
acres ..	1 844 506	1.8	General farms, primarily livestock and animal specialties (029) -----	311	2.3
OPERATOR CHARACTERISTICS			LIVESTOCK		
Operators by place of residence:			Cattle and calves inventory ----- farms ..	13 015	1.9
On farm operated -----	18 648	1.7	number ..	1 673 563	1.4
Not on farm operated -----	4 897	2.1	Beef cows ----- farms ..	11 331	2.0
Not reported -----	1 885	1.4	number ..	809 778	1.5
Operators by principal occupation:			Milk cows ----- farms ..	1 834	2.1
Farming -----	22 500	1.6	number ..	74 638	1.5
Other -----	2 930	2.4	Cattle and calves sold ----- farms ..	13 181	1.9
Operators by days worked off farm:			number ..	958 203	1.3
Any -----	8 531	2.0	\$1,000 ..	508 247	1.2
200 days or more -----	2 759	2.4	farms ..	1 645	1.9
Operators by sex:			number ..	337 812	1.2
Male -----	24 932	1.7	Hogs and pigs sold ----- farms ..	1 737	1.9
Female -----	498	2.5	number ..	592 091	1.2
Average age of operator ----- years ..	49.4	2.5	\$1,000 ..	51 349	1.1
			number ..	1 167	2.1
			Sheep and lambs of all ages inventory ----- farms ..	193 316	1.7
			number ..	1 224	2.1
			Sheep and lambs sold ----- farms ..	173 787	1.8
			number ..		
			Horses and ponies inventory ----- farms ..	2 982	1.9
			number ..	18 317	2.0
			Horses and ponies sold ----- farms ..	477	2.2
			number ..	3 962	2.6

See footnotes at end of table.

Table D. **Reliability Estimates of State Totals for Farms With Sales of \$10,000 or More: 1992—Con.**

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
POULTRY			CROPS HARVESTED—Con.		
Chickens 3 months old or older inventory -----farms --	599	2.7	Barley for grain ----- farms ..	13 562	1.4
number..	(D)	(D)	acres..	2 375 585	.7
Hens and pullets of laying age -----farms --	591	2.7	bushels..	142 256 519	.6
number..	239 541	.5	Oats for grain ----- farms ..	7 331	2.0
Broilers and other meat-type chickens sold -----farms --	92	3.9	acres..	542 705	1.6
number..	30 639	3.5	bushels..	32 738 637	1.5
			Sunflower seed ----- farms ..	5 216	1.1
			acres..	1 127 091	.6
			pounds..	1 258 010 246	.6
			Soybeans for beans ----- farms ..	2 785	1.0
			acres..	630 131	.5
			bushels..	16 074 443	.5
			Dry edible beans, excluding dry limas ----- farms ..	1 922	.9
			acres..	410 065	.4
			cwt..	5 272 703	.4
			Irish potatoes ----- farms ..	423	1.1
			acres..	139 474	.3
			cwt..	25 927 871	.2
			Sugar beets for sugar ----- farms ..	848	1.1
			acres..	(D)	(D)
			tons..	(D)	(D)
			Hay—alfalfa, other tame, small grain, wild, grass		
			silage, green chop, etc. (see text) -----farms ..	13 444	2.0
			acres..	2 340 490	1.6
			tons, dry..	3 138 368	1.5
			Alfalfa hay ----- farms ..	9 582	2.0
			acres..	1 005 017	1.6
			tons, dry..	1 538 767	1.4
CROPS HARVESTED					
Corn for grain or seed ----- farms --	3 293	1.0			
acres..	593 164	.6			
bushels..	37 398 250	.6			
Corn for silage or green chop ----- farms --	3 381	1.6			
acres..	275 778	1.1			
tons, green..	1 701 748	1.0			
Wheat for grain ----- farms --	21 314	1.6			
acres..	10 508 186	.9			
bushels..	406 922 600	.8			

¹Data are based on a sample of farms.

²Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains of less than \$1,000.

Table E. Reliability Estimates of Percent Change in State Totals: 1987 to 1992

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

Item	All farms		Farms with sales of \$10,000 or more	
	Percent change from 1987 to 1992	Standard error of estimate	Percent change from 1987 to 1992	Standard error of estimate
Farms..... number..	-11.8	1.8	-10.1	1.8
Land in farms..... acres..	-2.2	1.3	-2.7	1.3
Average size of farm..... acres..	10.8	2.7	8.2	2.6
Estimated market value of land and buildings ¹ :				
Average per farm..... dollars..	15.4	2.9	12.1	2.8
Average per acre..... dollars..	5.0	2.2	4.1	2.1
Estimated market value of all machinery and equipment ¹ :				
Average per farm..... dollars..	12.6	2.9	12.8	2.9
Farms by size:				
1 to 9 acres.....	-10.4	2.4	-8.4	3.2
10 to 49 acres.....	-20.8	1.9	-2.9	3.7
50 to 179 acres.....	-2.6	2.3	36.0	4.3
180 to 499 acres.....	-18.9	2.3	-13.7	2.5
500 to 999 acres.....	-22.3	2.2	-24.1	2.2
1,000 to 1,999 acres.....	-12.7	1.8	-13.4	1.8
2,000 acres or more.....	13.9	.8	13.8	.8
Total cropland..... farms..	-12.7	1.8	-10.6	1.8
Harvested cropland..... acres..	-2.6	1.3	-1.9	1.3
Irrigated land..... farms..	-14.1	1.7	-11.3	1.8
..... acres..	4.6	1.2	6.0	1.2
Market value of agricultural products sold..... \$1,000..	25.5	1.3	26.2	1.3
Average per farm..... dollars..	42.3	3.2	40.4	3.2
Crops, including nursery and greenhouse crops..... \$1,000..	35.6	1.2	36.6	1.1
Livestock, poultry, and their products..... \$1,000..	3.5	1.5	3.7	1.5
Farms by value of sales:				
Less than \$2,500.....	-5.4	1.5	(X)	(X)
\$2,500 to \$4,999.....	-22.1	2.0	(X)	(X)
\$5,000 to \$9,999.....	-26.5	1.9	(X)	(X)
\$10,000 to \$24,999.....	-28.8	2.1	-28.8	2.1
\$25,000 to \$49,999.....	-30.1	2.1	-30.1	2.1
\$50,000 to \$99,999.....	-16.7	2.0	-16.7	2.0
\$100,000 to \$249,999.....	34.4	1.0	34.4	1.0
\$250,000 to \$499,999.....	93.9	.1	93.9	.1
\$500,000 or more.....	108.5	-	108.5	-
Total farm production expenses ¹ \$1,000..	13.2	2.1	14.1	2.1
Average per farm..... dollars..	28.4	3.0	27.1	3.0
Net cash return from agricultural sales for the farm unit (see text) ¹ farms..	-11.8	1.8	-10.2	1.8
..... \$1,000..	96.1	4.4	91.7	4.2
Average per farm..... dollars..	122.3	6.8	113.5	6.4
Operators by principal occupation:				
Farming.....	-13.2	1.7	-12.0	1.7
Other.....	-5.2	2.2	7.6	3.0
Operators by days worked off farm:				
Any.....	-10.0	4.8	-4.6	5.1
200 days or more.....	-7.2	5.0	7.1	5.9
Livestock and poultry:				
Cattle and calves inventory..... farms..	-11.5	2.0	-10.5	2.1
..... number..	-8.0	1.5	-7.6	1.5
Beef cows..... farms..	-8.3	2.0	-7.8	2.1
..... number..	-5.5	1.7	-5.0	1.7
Milk cows..... farms..	-32.2	1.7	-30.0	1.8
..... number..	-22.3	1.6	-21.9	1.6
Cattle and calves sold..... farms..	-12.5	1.9	-11.1	2.0
..... number..	-11.6	1.4	-11.2	1.4
Hogs and pigs inventory..... farms..	-18.3	1.8	-19.1	1.9
..... number..	17.5	1.8	17.6	1.9
Hogs and pigs sold..... farms..	-15.7	1.9	-17.4	1.9
..... number..	20.8	1.9	20.7	1.9
Sheep and lambs inventory..... farms..	-	2.3	-1.9	2.5
..... number..	19.3	2.5	18.0	2.5
Chickens 3 months old or older inventory..... farms..	-49.8	1.4	-50.5	1.6
..... number..	2	1.1	(D)	(D)
Broilers and other meat-type chickens sold..... farms..	-47.5	2.0	-60.0	1.9
..... number..	-26.8	3.5	-20.3	4.1
Selected crops harvested:				
Corn for grain or seed..... farms..	-36.9	.9	-35.6	.9
..... acres..	11.6	.9	12.3	.9
..... bushels..	-20.2	.6	-20.0	.6
Corn for silage or green chop..... farms..	-19.6	1.7	-18.6	1.7
..... acres..	15.7	1.8	16.4	1.8
..... tons, green..	-6.8	1.4	-6.3	1.4
Wheat for grain..... farms..	-18.9	1.6	-14.7	1.7
..... acres..	21.1	1.4	23.3	1.4
..... bushels..	64.8	1.7	66.9	1.7
Barley for grain..... farms..	-32.9	1.2	-29.5	1.2
..... acres..	-11.2	.9	-10.0	.9
..... bushels..	18.4	1.1	19.5	1.1
Oats for grain..... farms..	-19.5	1.9	-16.1	2.0
..... acres..	-15.2	1.7	-13.3	1.7
..... bushels..	7.2	2.0	8.9	2.0
Sunflower seed..... farms..	-24.9	1.1	-23.5	1.1
..... acres..	-19.7	.6	-19.4	.6
..... pounds..	-34.2	.5	-34.0	.5
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)..... farms..	-12.6	2.0	-12.5	2.0
..... acres..	-6.4	1.9	-6.5	1.8
..... tons, dry..	-18.9	1.5	-19.0	1.5

¹Data are based on a sample of farms.

Table F. Reliability Estimates for the State and County Totals: 1992

[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)
North Dakota	31 123	1.7	39 438 144	1.1	1 267	2.0	422 936	2.1	2 715 228	1.3
Adams	353	1.9	594 587	1.2	1 684	2.2	312 775	7.2	21 666	3.5
Barnes	839	1.2	858 267	.7	1 023	1.4	418 840	3.5	85 891	2.4
Benson	635	1.7	777 675	1.0	1 225	1.9	417 121	6.4	57 311	3.8
Billings	242	2.8	818 893	1.0	3 384	3.0	508 630	5.0	18 392	13.5
Bottineau	798	1.5	950 031	.9	1 191	1.8	396 348	3.8	73 252	4.6
Bowman	343	2.2	677 945	1.4	1 977	2.7	335 067	3.8	23 521	6.8
Burke	462	2.5	559 385	2.1	1 211	3.3	303 788	3.9	32 856	5.9
Burleigh	795	2.8	877 382	2.3	1 104	3.6	285 398	6.0	36 180	5.2
Cass	1 004	1.0	1 070 528	.5	1 066	1.2	763 164	2.4	127 506	2.3
Cavalier	743	1.3	855 458	.8	1 151	1.5	511 372	2.6	86 424	4.3
Dickey	552	2.9	627 774	1.7	1 137	3.3	332 070	3.8	43 592	3.7
Divide	527	2.2	725 974	1.9	1 378	2.9	415 366	21.9	33 136	5.5
Dunn	650	2.5	1 352 738	1.3	2 081	2.8	412 498	3.7	42 096	5.2
Eddy	312	1.8	369 140	1.4	1 183	2.2	338 735	5.5	22 428	4.2
Emmons	759	2.2	834 293	1.7	1 099	2.8	254 847	5.9	51 028	4.7
Foster	297	1.9	366 292	1.3	1 233	2.3	442 070	9.2	35 274	9.6
Golden Valley	219	1.6	505 461	.6	2 308	1.7	414 096	5.4	16 625	5.5
Grand Forks	751	1.0	769 225	.5	1 024	1.1	694 931	2.1	97 743	4.0
Grant	598	2.6	1 019 300	1.7	1 705	3.2	333 267	8.9	42 609	6.1
Griggs	382	1.0	396 154	.8	1 037	1.3	350 431	4.4	34 923	3.6
Hettinger	427	2.2	688 468	1.6	1 612	2.7	413 554	3.4	37 741	3.3
Kidder	499	2.8	723 816	2.2	1 451	3.6	320 477	10.4	36 080	10.2
La Moure	679	2.2	669 049	1.5	985	2.7	376 732	10.0	59 498	2.9
Logan	472	2.7	598 832	2.2	1 269	3.4	324 752	4.5	34 402	4.0
McHenry	889	2.6	1 048 701	1.9	1 180	3.2	269 330	4.0	46 943	3.7
McIntosh	483	2.3	544 767	1.7	1 128	2.9	284 725	9.0	31 392	4.4
McKenzie	741	2.0	1 165 695	1.2	1 573	2.3	467 762	6.8	55 829	7.4
McLean	926	2.6	1 128 346	1.9	1 219	3.2	388 190	5.3	73 108	6.8
Mercer	527	2.4	531 643	2.1	1 009	3.2	270 816	4.9	26 599	7.5
Morton	923	2.6	1 233 663	1.9	1 337	3.2	287 735	9.2	56 083	4.4
Mountrail	745	2.6	1 000 679	2.0	1 343	3.3	425 194	5.3	50 813	5.5
Nelson	482	1.8	552 707	1.2	1 147	2.2	423 768	6.2	47 923	3.6
Oliver	326	2.3	384 213	1.9	1 179	3.0	276 092	6.5	22 596	11.1
Pembina	624	1.1	600 845	.5	963	1.2	783 025	2.0	89 607	2.4
Pierce	501	2.7	586 244	2.0	1 170	3.4	350 090	9.2	33 285	4.6
Ramsey	511	1.4	639 709	.8	1 252	1.7	454 947	3.7	62 078	6.9
Ransom	451	2.2	485 012	1.1	1 075	2.4	424 166	3.6	39 757	3.2
Renville	396	1.4	503 575	.9	1 272	1.7	424 080	2.4	39 332	4.9
Richland	956	1.3	799 606	.7	836	1.5	618 053	2.1	116 191	2.3
Rolette	486	2.3	522 536	2.0	1 075	3.1	327 110	9.1	30 784	5.7
Sargent	481	1.5	495 509	.9	1 030	1.7	391 421	3.4	49 924	4.4
Sheridan	419	2.8	521 343	2.3	1 244	3.7	347 359	8.3	24 883	6.9
Sioux	200	2.6	745 815	.9	3 729	2.7	790 252	7.5	12 245	7.1
Slope	270	1.3	785 713	.7	2 910	1.5	493 238	3.8	18 894	4.4
Stark	788	2.8	841 736	2.3	1 068	3.6	300 355	6.7	49 490	5.1
Steele	335	.9	439 846	.6	1 313	1.1	596 445	2.9	48 663	4.7
Stutsman	988	1.8	1 269 572	.9	1 285	2.0	398 386	3.6	97 819	3.3
Towner	462	1.1	591 185	.7	1 280	1.3	431 713	4.8	45 864	7.8
Traill	517	1.1	501 057	.6	969	1.3	778 964	2.6	80 076	3.4
Walsh	780	1.5	737 273	.7	945	1.7	610 383	2.3	104 254	2.4
Ward	1 107	1.8	1 160 916	1.3	1 049	2.2	356 218	2.9	86 971	4.9
Wells	638	2.2	750 913	1.4	1 177	2.6	379 570	4.7	55 559	3.5
Williams	833	2.4	1 182 658	1.7	1 420	3.0	357 973	4.0	68 094	7.5

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			
	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)	Total farm production expenses			
							Farms		Value	
							Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
North Dakota	87 290	2.2	2 745 752	.8	88 223	1.9	31 124	1.7	2 090 938	.9
Adams	61 378	4.0	23 457	1.1	66 450	2.2	353	1.8	17 752	2.6
Barnes	102 251	2.7	91 396	.8	108 935	1.4	840	1.2	66 809	1.2
Benson	90 254	4.2	47 536	.8	74 860	1.8	635	1.8	39 872	2.6
Billings	75 685	13.8	10 361	2.5	42 814	3.7	243	3.0	8 966	10.1
Bottineau	91 910	4.8	56 496	.8	70 797	1.7	797	1.4	39 812	2.3
Bowman	68 376	7.1	19 540	1.5	56 967	2.7	344	1.9	13 718	4.3
Burke	70 963	6.4	23 723	1.8	51 349	3.1	463	2.4	16 241	4.4
Burleigh	45 509	6.0	37 644	2.1	47 351	3.5	795	2.9	30 371	4.3
Cass	126 871	2.6	160 826	.4	160 185	1.1	1 005	1.2	124 102	1.0
Cavalier	116 318	4.5	86 447	.7	116 349	1.5	743	1.3	64 560	1.5
Dickey	78 971	4.6	60 944	1.2	110 405	3.1	552	2.8	48 342	3.2
Divide	62 877	6.0	27 114	1.8	51 451	2.8	527	2.3	17 937	4.3
Dunn	65 673	5.9	37 101	1.9	57 079	3.1	650	2.4	27 136	3.6
Eddy	72 115	4.4	21 896	1.3	70 179	2.2	311	1.2	18 500	4.5

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — 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			
	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)	Total farm production expenses			
							Farms		Value	
							Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Emmons	67 230	6.0	48 920	1.5	64 453	2.7	759	3.7	35 883	3.2
Foster	118 767	9.8	31 357	1.1	105 578	2.2	297	2.2	26 098	6.4
Golden Valley	76 259	6.4	16 337	.7	74 599	1.7	218	3.2	11 487	6.1
Grand Forks	130 150	4.2	133 567	.3	177 853	1.1	751	1.2	103 354	.8
Grant	71 252	6.7	38 947	1.8	65 128	3.2	598	2.7	29 655	3.6
Griggs	91 421	3.8	33 796	.7	88 472	1.2	382	1.1	25 383	2.6
Hettinger	88 387	4.1	38 571	1.3	90 331	2.6	427	2.4	27 595	2.2
Kidder	72 305	10.6	30 002	2.0	60 125	3.4	499	2.9	23 304	4.8
La Moure	87 755	3.8	69 379	1.3	102 179	2.6	678	2.4	48 930	2.1
Logan	72 886	5.0	37 738	1.8	79 953	3.2	472	3.0	27 969	3.6
McHenry	52 804	4.5	47 252	1.7	53 152	3.1	889	2.6	36 023	3.9
McIntosh	64 994	5.1	34 814	1.4	72 079	2.7	483	2.7	25 084	3.9
McKenzie	75 546	7.7	49 220	1.3	66 423	2.4	739	2.0	35 784	3.5
McLean	78 950	7.4	60 308	1.5	65 128	3.0	926	3.0	42 897	3.2
Mercer	50 377	7.9	22 264	1.9	42 246	3.1	528	2.7	17 348	3.9
Morton	60 762	5.2	61 974	1.6	67 144	3.1	923	2.7	48 307	3.1
Mountrail	68 298	6.1	40 769	1.8	54 724	3.2	744	2.7	29 481	2.9
Nelson	99 220	4.0	48 272	1.0	100 149	2.1	483	1.8	37 329	2.5
Oliver	69 525	11.4	17 994	1.8	55 197	2.9	325	2.5	14 355	8.1
Pembina	143 601	2.7	114 179	.4	182 980	1.2	625	1.2	89 073	1.2
Pierce	66 437	5.3	31 191	1.7	62 258	3.2	501	2.6	25 438	2.7
Ramsey	122 926	7.2	50 740	.7	99 295	1.6	512	1.9	36 748	2.1
Ransom	88 153	3.5	51 296	1.0	113 739	2.4	451	1.4	40 490	2.7
Renville	99 323	5.1	32 322	.9	81 622	1.6	396	1.4	21 040	3.8
Richland	121 666	2.7	130 800	.6	136 820	1.4	955	1.3	101 213	.8
Rolette	63 342	6.3	28 902	1.6	59 470	2.8	486	2.5	21 678	3.5
Sargent	103 793	4.9	54 531	.7	113 369	1.7	481	2.2	40 640	2.0
Sheridan	59 386	7.5	21 491	2.2	51 292	3.6	419	2.9	18 012	3.7
Sioux	61 224	7.6	13 838	1.5	69 191	2.9	200	2.8	11 301	7.2
Slope	69 976	4.7	18 688	1.0	69 216	1.6	271	1.7	14 650	3.4
Stark	62 884	5.8	42 112	2.0	53 441	3.4	787	2.9	33 875	2.7
Steele	145 262	4.9	49 645	.5	148 194	1.1	335	1.4	36 440	3.3
Stutsman	99 007	4.0	98 991	.7	100 193	1.9	988	2.2	74 350	1.7
Towner	99 487	8.0	45 058	.6	97 528	1.2	461	1.8	31 015	2.7
Traill	154 887	3.7	85 464	.5	165 308	1.2	517	1.3	69 848	2.0
Walsh	133 659	2.8	137 832	.5	176 708	1.6	780	1.5	114 848	1.1
Ward	78 494	5.3	72 169	1.1	65 193	2.1	1 108	1.9	54 582	2.9
Wells	86 946	4.2	54 598	1.2	85 577	2.5	639	2.4	42 061	2.8
Williams	81 746	7.8	45 942	1.6	55 152	2.9	833	2.3	33 251	2.7

Farm production expenses¹—Con.

Geographic area	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)
North Dakota	9 615	2.5	143 982	2.5	14 372	2.2	104 335	2.1	21 636	1.8	117 860	.9
Adams	142	11.3	2 805	11.9	219	8.3	1 336	6.1	213	8.2	491	6.8
Barnes	201	9.8	1 796	6.0	333	7.0	1 708	10.7	689	2.9	4 466	1.6
Benson	160	14.1	1 373	6.9	232	8.8	1 548	5.4	434	4.9	2 203	3.2
Billings	126	15.1	856	17.3	190	8.6	1 839	18.5	125	14.1	140	18.5
Bottineau	157	13.8	1 269	45.1	238	10.1	774	18.6	556	5.0	2 257	3.9
Bowman	118	13.5	1 559	11.0	245	6.2	1 623	8.2	158	11.0	355	4.7
Burke	121	16.6	518	23.4	142	14.4	246	24.8	276	8.3	608	5.0
Burleigh	291	10.8	4 004	5.2	437	6.8	2 593	5.9	442	8.5	941	10.2
Cass	249	11.9	6 714	9.1	303	10.4	4 446	11.1	776	4.0	8 721	2.4
Cavalier	92	20.3	519	45.3	158	15.2	670	25.4	607	2.8	3 876	3.5
Dickey	207	14.1	5 322	13.8	280	10.3	3 240	5.3	350	8.6	3 186	2.6
Divide	128	13.5	831	12.8	209	10.4	834	14.7	324	7.6	581	11.6
Dunn	313	8.1	4 314	10.0	451	6.1	2 389	5.6	405	6.0	652	8.1
Eddy	145	12.6	1 765	30.2	187	11.2	991	7.7	248	8.1	929	5.6
Emmons	304	8.6	5 677	9.9	410	6.5	3 853	5.8	516	6.9	1 053	4.0
Foster	84	25.6	1 522	51.0	131	17.4	2 259	44.6	228	10.1	1 761	4.7
Golden Valley	68	25.1	766	17.3	99	17.9	887	13.8	129	14.3	389	10.8
Grand Forks	96	20.9	4 970	5.1	202	12.4	2 076	22.5	626	3.2	9 387	1.7
Grant	283	9.5	3 426	17.5	401	5.8	2 926	5.4	402	5.1	742	5.3
Griggs	85	16.3	577	30.2	141	12.8	371	15.0	321	3.4	1 866	3.2
Hettinger	150	12.4	2 180	14.1	196	10.2	1 945	9.2	297	5.9	1 133	3.4
Kidder	217	10.0	2 610	14.9	296	8.4	2 102	7.3	285	8.6	644	7.6
La Moure	229	10.3	3 238	6.8	329	8.2	3 894	4.2	565	4.0	2 899	3.4
Logan	207	10.1	5 732	4.8	340	6.7	2 728	4.2	334	6.6	706	8.6
McHenry	345	9.6	3 506	25.4	568	6.3	3 390	15.2	489	7.0	1 463	5.5
McIntosh	199	10.3	5 353	12.1	306	7.7	1 939	5.6	326	7.1	695	6.1
McKenzie	293	10.4	4 331	14.1	430	8.0	2 215	6.9	423	7.6	1 227	13.1
McLean	330	12.1	3 580	7.7	454	9.2	1 625	6.5	541	7.7	1 573	5.7
Mercer	246	12.2	2 706	11.8	291	9.9	1 458	7.4	292	8.7	379	9.4

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — 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)
Morton	455	8.1	8 165	15.2	636	5.0	5 942	4.8	676	5.5	1 479	6.7
Mountrail	225	11.7	2 157	12.0	393	7.0	1 226	13.7	422	6.7	1 110	7.9
Nelson	69	13.7	752	4.7	153	11.3	2 838	6.7	362	5.8	2 467	3.7
Oliver	156	15.1	1 936	26.5	232	8.4	1 428	11.5	229	6.4	426	12.5
Pembina	87	17.7	2 386	5.0	120	16.4	1 021	5.9	544	2.7	6 390	4.6
Pierce	178	13.0	2 833	8.6	279	9.1	1 687	4.5	392	5.8	1 265	4.9
Ramsey	46	17.5	615	10.9	76	15.3	246	11.5	396	5.1	2 390	3.6
Ransom	188	11.9	3 027	13.8	227	9.5	3 182	5.5	378	4.4	2 984	2.8
Renville	58	21.0	1 008	71.0	118	16.2	441	12.7	280	7.2	862	4.3
Richland	247	12.5	5 228	6.1	368	8.4	5 389	7.6	794	3.8	7 452	2.2
Rolette	185	11.5	1 625	8.2	259	10.0	1 229	16.9	259	8.5	970	5.7
Sargent	145	13.0	2 094	6.2	229	9.7	2 164	4.0	412	3.8	3 665	2.5
Sheridan	133	16.3	1 060	14.9	217	11.8	1 098	14.7	237	10.3	827	7.8
Sioux	99	14.9	1 659	15.4	121	11.8	1 254	13.1	146	9.4	277	19.9
Slope	140	10.2	1 387	8.5	147	9.0	1 095	8.8	169	8.9	402	8.4
Stark	324	9.0	5 752	7.1	503	6.5	3 482	6.2	471	6.7	648	5.7
Steele	62	24.3	314	11.4	99	14.6	324	4.9	296	3.8	3 010	3.6
Stutsman	328	9.9	5 405	7.7	499	6.6	4 466	10.2	661	5.1	3 550	2.7
Towner	46	28.4	234	7.3	98	16.2	516	8.9	357	5.4	1 837	3.5
Traill	60	21.9	1 456	5.8	91	19.2	1 452	40.5	479	2.1	5 934	4.9
Walsh	144	16.6	1 858	36.6	228	11.0	916	16.2	662	3.3	8 228	1.6
Ward	246	12.3	4 828	25.8	427	8.7	2 179	8.2	675	5.6	2 572	3.2
Wells	195	12.7	2 939	7.5	315	8.6	1 725	13.2	494	5.5	2 583	3.8
Williams	213	14.7	1 445	10.9	319	11.0	1 129	10.5	468	6.9	1 216	7.0

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)
North Dakota	19 856	1.7	200 797	.7	21 373	1.8	161 765	.9	30 299	1.8	181 040	1.1
Adams	176	11.4	767	5.1	191	8.5	894	9.7	320	3.8	1 635	4.4
Barnes	648	3.2	8 458	1.5	649	3.3	5 895	1.7	820	1.9	6 057	2.0
Benson	475	4.9	3 959	3.1	490	5.1	3 440	4.1	618	2.4	4 104	3.0
Billings	69	22.7	160	14.9	65	21.8	139	30.6	233	4.5	813	7.8
Bottineau	523	5.4	4 669	3.0	553	4.8	3 819	3.6	782	1.9	3 979	2.3
Bowman	134	12.4	708	5.4	140	11.8	824	16.7	317	4.5	1 431	5.4
Burke	297	7.1	1 383	4.5	285	7.8	1 519	7.2	454	2.7	1 984	4.7
Burleigh	351	10.5	1 284	8.8	345	10.1	1 476	20.3	748	4.0	2 962	5.7
Cass	822	3.4	14 413	2.0	791	3.7	10 919	1.8	994	1.5	8 237	1.8
Cavalier	640	3.3	9 971	2.0	616	3.9	6 779	2.7	728	1.6	6 221	3.0
Dickey	301	9.5	4 296	2.7	409	6.2	3 605	3.6	537	3.8	4 079	4.6
Divide	254	9.4	818	6.6	411	4.7	1 628	6.3	505	2.9	2 280	4.3
Dunn	342	7.8	1 221	8.5	285	9.7	746	10.5	630	3.0	2 824	3.9
Eddy	221	5.4	1 567	6.7	247	7.5	1 251	7.8	298	2.5	1 719	3.6
Emmons	332	8.1	1 632	4.6	379	8.5	1 724	8.5	744	3.9	3 281	4.0
Foster	217	10.5	3 110	5.8	231	9.9	2 248	6.6	248	8.8	2 093	6.9
Golden Valley	171	10.3	898	7.5	179	8.8	897	9.6	211	3.7	1 023	7.8
Grand Forks	619	3.2	12 571	1.6	634	3.3	9 000	1.9	726	2.2	7 147	1.9
Grant	329	6.7	1 297	5.9	316	8.0	1 416	8.5	588	3.0	2 798	3.7
Griggs	296	3.5	3 191	2.2	290	4.7	2 312	3.5	370	1.6	2 371	3.8
Hettinger	327	5.6	2 750	2.6	324	5.4	2 414	3.7	417	2.7	2 372	3.4
Kidder	157	14.8	669	13.0	244	9.9	729	9.0	498	2.9	2 452	7.1
La Moure	517	4.8	4 623	3.0	548	4.6	3 401	3.5	668	2.8	4 571	2.4
Logan	207	10.6	908	8.7	285	7.4	1 213	9.1	472	3.0	2 451	5.3
McHenry	479	7.3	2 080	4.1	589	6.1	2 318	10.0	856	3.0	3 568	4.0
McIntosh	177	10.3	735	8.7	304	7.5	1 232	8.7	466	3.6	2 504	4.4
McKenzie	374	8.1	2 217	6.5	417	7.7	1 705	11.0	717	2.5	3 519	3.9
McLean	532	8.0	3 257	5.4	623	6.9	3 434	6.3	907	3.2	4 362	3.9
Mercer	226	10.7	816	7.1	268	9.8	642	11.5	503	3.4	1 673	7.0
Morton	527	7.4	1 980	4.5	546	7.0	1 856	6.6	896	3.1	3 919	3.6
Mountrail	360	8.4	1 744	4.9	444	6.5	2 093	6.6	737	2.9	3 192	3.8
Nelson	379	5.6	5 276	3.1	393	5.0	3 355	5.2	461	3.3	3 287	3.0
Oliver	209	7.3	607	7.0	135	12.7	617	10.1	312	3.3	1 246	6.7
Pembina	523	1.9	10 613	1.8	539	3.2	7 584	1.7	612	1.8	6 171	2.3
Pierce	338	7.5	2 094	5.0	387	5.3	2 001	6.0	500	2.6	2 602	3.3
Ramsey	450	3.2	5 527	2.8	399	4.9	3 682	4.5	504	2.1	3 802	3.4
Ransom	347	5.2	4 397	4.0	322	8.2	2 763	3.1	448	1.4	3 010	3.6
Renville	273	7.5	2 382	2.1	339	4.9	1 969	4.1	395	1.4	2 293	3.3
Richland	780	4.1	11 747	1.8	680	4.0	8 141	1.5	945	1.6	7 135	1.7
Rolette	274	8.1	2 145	7.5	293	9.5	1 609	9.4	468	2.9	2 250	4.8
Sargent	396	4.3	4 381	2.8	402	4.1	4 009	2.5	473	2.5	3 063	2.7
Sheridan	211	11.3	1 293	6.3	270	8.7	1 354	11.1	419	2.9	2 071	4.9
Sioux	53	24.7	206	4.7	67	20.7	330	33.3	197	2.8	962	8.7
Slope	161	8.1	751	5.8	176	8.2	954	10.1	254	3.4	1 545	6.3

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — 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)
Stark	439	7.6	1 520	4.3	497	6.2	1 666	6.4	741	3.5	2 920	4.2
Steele	304	3.8	5 020	3.3	308	2.8	3 362	3.2	326	2.7	3 193	3.4
Stutsman	617	5.5	6 878	2.5	719	5.0	5 592	3.9	985	2.2	6 258	1.9
Towner	411	3.8	4 017	4.1	393	4.8	3 033	4.9	452	2.4	3 164	3.1
Traill	477	2.4	8 175	3.2	451	2.6	6 878	4.7	505	2.1	4 810	2.6
Walsh	627	4.3	14 444	1.5	668	2.7	10 559	1.2	776	1.5	7 062	1.3
Ward	693	5.2	4 738	2.8	749	4.4	4 263	4.8	1 081	2.2	5 115	2.6
Wells	477	5.2	4 956	3.8	482	5.7	3 542	5.3	631	2.6	3 573	3.2
Williams	317	10.1	1 479	5.5	606	5.3	2 937	5.7	806	2.8	3 888	4.4
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)
North Dakota ..	25 489	1.8	33 698	1.3	11 895	1.9	99 790	.7	2 800	3.7	9 370	2.6
Adams	282	5.2	374	4.9	130	12.3	661	11.4	24	30.5	39	6.3
Barnes	686	3.2	911	3.4	256	5.1	2 215	1.5	64	13.8	356	4.7
Benson	549	3.8	735	6.0	289	9.0	1 570	4.9	54	17.0	224	23.3
Billings	216	6.6	156	7.4	80	21.6	367	35.7	19	51.2	38	56.5
Bottineau	613	4.2	653	6.0	256	8.0	1 369	3.2	85	18.6	166	18.1
Bowman	272	6.6	340	9.0	73	15.7	445	1.1	32	30.6	94	24.9
Burke	367	5.9	322	10.4	124	15.3	553	7.6	47	29.7	116	24.7
Burleigh	626	5.3	682	6.0	291	12.1	1 775	1.9	74	24.5	243	21.1
Cass	853	2.9	1 349	2.8	556	4.7	7 660	3.0	81	17.2	301	4.8
Cavalier	665	2.9	771	3.3	349	9.2	1 701	3.0	36	19.5	132	2.8
Dickey	421	7.6	815	4.9	228	10.5	3 007	1.0	49	29.0	217	11.3
Divide	392	6.0	330	8.4	129	15.3	306	12.0	49	27.7	213	29.8
Dunn	521	5.4	581	7.2	205	11.8	892	11.8	70	26.4	98	22.4
Eddy	227	6.8	350	6.6	120	17.6	513	7.9	53	25.7	100	38.3
Emmons	614	5.1	919	7.6	276	8.3	842	10.9	32	21.9	89	12.6
Foster	254	7.7	407	6.3	110	15.8	988	4.3	34	42.0	116	14.8
Golden Valley	175	8.6	258	7.2	53	16.2	478	25.1	56	31.2	105	22.2
Grand Forks	654	3.0	1 194	3.3	345	6.1	7 933	.7	69	10.9	541	1.5
Grant	528	4.2	640	4.4	177	12.9	809	5.3	54	29.8	95	23.0
Griggs	302	5.8	413	6.6	137	11.3	788	7.7	27	29.7	177	33.9
Hettinger	336	5.2	478	5.7	143	10.9	875	2.1	50	23.8	150	24.3
Kidder	410	5.5	679	7.9	218	12.0	1 175	13.5	63	30.6	173	30.5
La Moure	597	4.2	1 099	4.0	242	9.4	1 564	2.9	58	22.6	176	25.9
Logan	397	5.7	591	6.2	185	12.2	567	9.1	35	29.5	42	4.2
McHenry	712	4.6	761	5.8	287	10.6	1 692	13.7	48	25.6	144	17.8
McIntosh	416	5.1	478	4.4	125	9.4	374	4.0	36	19.5	47	3.7
McKenzie	540	6.1	559	7.0	310	9.8	1 585	7.7	72	21.0	253	4.4
McLean	775	5.0	850	5.3	372	10.4	1 548	9.6	76	24.6	71	7.4
Mercer	377	7.2	356	6.9	152	16.6	490	1.9	59	27.6	143	55.4
Morton	790	4.3	1 032	5.1	299	10.2	1 717	4.5	105	20.6	227	12.3
Mountrail	583	5.1	484	7.0	247	11.0	1 055	9.1	60	25.0	140	16.8
Nelson	406	5.4	506	4.7	223	9.3	1 655	9.7	32	19.6	106	3.7
Oliver	262	6.0	310	5.4	137	17.4	411	7.7	49	33.0	95	28.0
Pembina	544	3.0	1 013	2.6	390	5.4	7 460	1.1	74	10.8	550	3.9
Pierce	432	4.3	589	5.0	138	13.4	531	13.2	73	23.0	102	12.2
Ramsey	418	4.3	445	3.7	206	7.8	1 367	7.7	36	19.6	137	15.4
Ransom	380	6.1	630	2.4	187	11.0	1 952	3.3	60	37.4	123	31.7
Renville	339	4.9	286	4.8	121	10.1	496	1.6	31	21.2	117	9.5
Richland	769	3.6	1 148	4.1	368	7.7	4 653	1.9	77	21.6	541	11.5
Rolette	398	5.4	494	8.8	240	11.5	738	12.6	57	34.6	68	28.6
Sargent	371	5.0	571	3.4	214	9.4	1 632	2.9	49	21.6	217	24.7
Sheridan	394	4.4	395	6.7	115	16.0	368	12.4	25	36.5	25	29.2
Sioux	158	8.8	274	10.9	63	20.2	402	2.6	32	34.0	149	5.0
Slope	214	6.5	327	6.6	121	10.7	722	6.4	29	28.0	82	19.4
Stark	617	5.5	747	6.0	181	11.9	988	15.9	56	23.5	94	34.6
Steele	278	5.9	491	3.1	181	9.0	1 636	1.8	18	1.5	94	.4
Stutsman	856	3.7	1 268	3.6	423	8.5	3 183	4.1	83	20.3	275	12.1
Towner	376	5.4	492	4.8	192	10.3	1 060	5.4	45	19.9	273	19.6
Traill	417	4.7	675	8.9	354	4.7	4 688	2.9	56	16.6	316	8.1
Walsh	643	4.7	1 353	2.3	478	6.9	14 065	1.1	96	18.7	596	9.9
Ward	867	4.5	853	4.3	299	10.3	1 756	2.9	70	21.1	131	18.8
Wells	565	3.5	675	3.9	247	10.2	1 213	4.3	33	2.1	108	.5
Williams	635	5.7	593	5.6	253	10.9	1 303	9.6	48	21.2	147	6.6

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — Con.

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

Geographic area	Farm production expenses ¹ —Con.											
	Repair and maintenance				Customwork, machine hire, and rental of machinery and equipment				Interest expense			
	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)
North Dakota	28 340	1.8	191 111	1.2	15 304	2.0	64 170	1.5	20 696	1.8	213 388	1.2
Adams	316	4.1	1 543	5.5	195	8.5	791	15.0	219	8.7	1 950	5.4
Barnes	755	3.1	6 344	1.5	419	5.0	2 573	11.0	618	4.0	7 573	3.5
Benson	580	2.9	4 213	5.2	301	6.7	1 700	13.2	395	7.5	4 108	6.2
Billings	234	4.5	1 036	12.8	112	17.7	184	27.2	139	12.3	1 040	24.5
Bottineau	666	3.3	4 067	3.7	299	8.3	994	6.8	527	5.7	5 034	5.7
Bowman	273	5.6	1 380	5.3	99	14.2	331	7.8	193	9.6	1 637	9.8
Burke	416	3.8	2 353	10.1	179	12.7	465	19.8	273	8.1	1 769	7.2
Burleigh	718	4.5	3 119	7.4	358	10.7	817	16.8	465	8.1	3 757	10.5
Cass	921	2.4	10 021	2.1	586	5.3	2 849	2.7	711	3.8	11 123	2.1
Cavalier	688	2.9	5 136	3.7	468	5.1	3 601	8.2	547	5.8	5 832	4.4
Dickey	471	6.2	3 566	4.1	341	9.2	1 735	7.1	393	8.2	4 380	4.2
Divide	485	3.4	2 267	4.9	215	11.4	500	17.5	338	6.7	2 504	7.6
Dunn	587	4.0	2 920	6.8	293	8.3	546	9.2	433	7.1	3 197	6.8
Eddy	275	4.7	1 759	6.4	148	14.7	343	7.9	204	7.5	1 524	6.6
Emmons	685	4.6	3 458	5.8	367	9.2	1 149	10.7	453	6.8	3 991	10.8
Foster	262	7.5	2 227	6.2	174	13.1	904	3.0	214	11.6	2 461	8.8
Golden Valley	200	4.4	1 017	5.3	95	18.2	376	16.4	138	14.4	1 377	8.9
Grand Forks	691	2.7	8 385	1.7	433	6.1	3 084	4.2	535	5.3	7 564	3.3
Grant	579	3.0	3 040	4.1	233	10.3	732	10.2	454	5.5	3 974	4.5
Griggs	348	3.6	2 119	3.4	222	7.2	1 165	11.5	267	5.8	2 473	5.3
Hettinger	384	4.1	2 655	7.7	210	8.5	859	5.2	312	6.0	2 872	5.5
Kidder	455	4.5	2 425	7.0	238	11.2	585	10.4	314	8.1	3 028	11.8
La Moure	652	3.2	4 893	3.0	456	5.5	1 576	3.4	488	5.7	3 985	5.6
Logan	456	3.7	2 784	6.0	275	7.8	879	7.0	298	7.9	2 974	7.8
McHenry	810	3.6	3 654	4.2	324	10.5	726	9.4	548	5.3	3 864	5.5
McIntosh	432	4.7	2 636	4.2	251	9.0	640	9.6	355	6.0	3 037	6.2
McKenzie	668	3.6	3 298	4.1	410	8.3	1 758	15.0	422	8.0	4 200	8.0
McLean	818	4.5	4 596	5.6	421	9.9	1 103	13.1	587	6.9	4 880	5.2
Mercer	494	3.7	1 864	6.3	249	10.9	466	12.6	316	8.2	2 009	7.4
Morton	856	3.9	4 436	5.5	416	8.9	1 056	6.7	628	6.2	4 529	4.4
Mountrail	686	3.7	2 893	4.3	378	8.0	982	11.3	461	6.7	3 820	7.4
Nelson	448	3.9	3 267	3.3	244	8.0	1 264	13.9	321	7.0	3 302	5.6
Oliver	291	4.6	1 696	9.5	129	19.1	190	13.4	221	11.4	1 384	8.4
Pembina	599	2.3	6 783	2.2	360	6.1	3 010	1.8	472	4.2	8 381	4.1
Pierce	473	3.7	2 856	3.9	221	10.7	437	7.6	341	7.2	2 824	6.9
Ramsey	480	3.3	3 978	4.3	260	7.8	1 431	6.8	311	5.8	3 382	5.6
Ransom	418	5.0	2 944	4.7	223	12.5	1 608	6.0	256	8.1	3 698	6.2
Renville	354	4.4	2 218	2.7	174	9.3	608	7.9	275	7.4	2 623	2.7
Richland	821	3.3	7 671	1.5	442	6.4	1 686	4.3	647	4.9	10 441	2.1
Rolette	460	4.0	2 532	6.4	231	12.0	865	10.8	326	8.8	2 200	8.9
Sargent	412	4.1	3 058	3.7	276	8.1	1 418	5.4	324	6.6	3 682	5.6
Sheridan	373	5.5	2 147	8.8	198	11.2	434	13.3	276	8.4	2 398	10.2
Sioux	189	4.8	1 061	8.8	71	19.5	343	8.6	153	7.8	1 380	10.4
Slope	242	4.6	1 489	8.6	129	9.1	450	8.0	193	7.9	2 256	8.8
Stark	713	4.3	3 440	6.3	290	10.3	621	9.5	564	6.3	3 894	6.2
Steele	313	4.3	3 062	6.1	198	7.7	966	2.6	277	4.9	4 082	5.9
Stutsman	919	3.3	6 876	3.0	567	5.2	3 205	3.7	615	5.4	7 039	4.3
Towner	446	2.3	2 939	7.6	230	10.6	1 250	7.1	321	7.2	3 346	7.6
Traill	458	3.2	4 589	2.5	293	7.3	1 908	9.2	399	5.1	6 850	4.9
Walsh	700	4.1	8 149	2.7	506	5.8	3 576	3.1	558	5.8	8 347	2.7
Ward	1 040	2.7	5 917	3.7	438	7.8	1 529	7.5	696	5.7	6 648	4.8
Wells	573	4.1	4 368	3.9	329	8.5	964	3.5	462	6.4	4 391	5.4
Williams	757	3.3	3 966	5.2	330	9.4	939	16.6	443	8.1	4 372	7.4

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)
North Dakota	16 577	1.8	277 212	1.0	26 816	1.8	56 779	1.7	30 160	1.8	235 642	1.1
Adams	169	9.8	1 622	7.6	333	3.1	825	5.2	325	3.4	2 020	8.3
Barnes	479	5.7	8 996	4.1	714	3.2	1 680	3.7	831	1.6	7 782	1.8
Benson	321	7.7	4 523	6.7	537	4.6	1 428	10.0	598	2.8	4 744	4.4
Billings	113	16.3	785	16.1	231	4.5	151	8.0	243	3.0	1 263	16.8
Bottineau	318	7.4	4 156	5.7	702	3.0	1 268	4.7	764	2.1	5 337	4.7
Bowman	148	10.9	769	9.7	281	5.2	486	6.6	336	2.8	1 736	6.1
Burke	205	9.4	1 784	10.6	393	4.9	576	8.0	443	3.2	2 045	9.0
Burleigh	317	11.1	2 030	9.5	751	3.5	1 184	5.6	759	3.5	3 502	6.1
Cass	626	4.4	21 644	2.0	814	3.4	2 710	18.5	986	1.8	12 995	1.7
Cavalier	484	5.7	10 037	3.6	593	3.6	1 723	4.0	736	1.6	7 591	2.5
Dickey	287	9.2	4 633	5.5	487	5.5	1 216	6.2	525	4.3	5 047	9.0
Divide	191	10.8	1 649	14.3	493	3.2	855	6.9	500	2.9	2 343	7.4
Dunn	346	8.1	2 530	6.7	560	4.5	878	5.4	630	3.1	3 349	5.1
Eddy	170	9.7	2 695	7.4	251	6.2	592	14.2	295	3.0	2 402	11.7

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 – 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)
Emmons	377	9.0	3 264	7.6	634	5.3	1 126	5.8	713	4.1	3 824	6.3
Foster	112	8.8	2 713	5.3	267	5.8	781	8.4	282	5.5	2 510	3.9
Golden Valley	116	11.4	1 128	7.0	199	5.9	377	4.6	197	3.5	1 511	9.7
Grand Forks	478	6.0	17 601	1.8	621	3.4	1 841	4.3	731	1.5	10 061	1.1
Grant	261	8.0	3 262	6.5	546	3.7	1 019	5.4	577	3.1	3 480	5.4
Griggs	233	5.4	3 883	7.7	307	6.5	716	5.9	375	1.7	2 963	3.7
Hettinger	275	6.8	3 302	6.0	351	5.8	679	6.3	409	3.2	2 931	3.4
Kidder	227	9.8	1 953	10.3	459	4.1	918	6.3	490	3.3	3 161	8.7
La Moure	348	7.3	5 414	4.8	574	4.7	1 298	5.7	667	2.8	6 299	3.0
Logan	311	7.6	2 583	7.8	415	4.5	788	8.2	471	3.0	3 022	6.0
McHenry	404	9.0	3 039	9.7	763	4.3	1 303	5.2	838	3.3	4 516	5.5
McIntosh	250	8.2	1 792	4.9	435	4.4	653	4.9	467	3.4	2 968	7.0
McKenzie	357	7.9	2 854	9.3	652	4.2	850	5.4	703	2.6	5 212	9.0
McLean	486	8.4	5 602	8.8	855	4.1	1 215	6.5	907	3.2	5 204	6.5
Mercer	302	8.8	2 058	12.4	458	4.8	583	7.5	513	3.2	1 705	5.3
Morton	471	8.0	5 034	7.9	854	3.8	1 305	5.9	907	3.0	5 631	4.6
Mountrail	389	7.1	3 703	7.9	678	3.7	1 213	6.3	725	3.1	3 670	5.9
Nelson	273	6.8	4 444	6.0	423	4.4	1 201	7.9	464	3.2	3 610	4.2
Oliver	177	14.3	1 429	13.2	280	5.7	303	9.4	314	3.2	2 278	11.7
Pembina	443	4.7	16 727	1.9	508	3.6	1 901	3.5	617	1.7	9 082	2.5
Pierce	239	8.2	1 847	7.0	447	3.6	954	3.6	493	3.0	2 815	5.6
Ramsey	248	7.3	4 780	4.7	426	4.6	1 158	5.5	500	2.3	3 808	3.0
Ransom	275	8.1	4 690	4.8	369	3.2	869	3.7	449	1.4	4 613	2.7
Renville	186	10.0	2 327	4.7	339	5.1	628	5.3	396	1.4	2 783	3.3
Richland	587	4.4	18 508	2.6	845	3.1	2 500	5.2	931	1.7	8 975	1.2
Rolette	249	11.4	1 943	9.0	406	5.2	757	8.8	465	2.8	2 254	4.9
Sargent	305	6.9	5 411	4.1	409	4.6	1 090	4.1	480	2.2	4 185	2.9
Sheridan	201	10.4	1 565	11.9	370	5.4	682	8.2	400	4.1	2 296	6.4
Sioux	127	12.5	936	11.2	179	6.7	330	7.6	200	2.8	1 740	11.5
Slope	114	13.1	1 141	14.1	231	5.5	464	8.7	251	3.8	1 585	6.4
Stark	408	8.1	3 383	7.6	692	4.4	1 049	5.8	713	3.9	3 673	4.4
Steele	194	8.2	5 976	7.2	304	3.7	857	3.6	335	1.4	4 052	2.4
Stutsman	509	5.7	10 637	4.4	842	3.8	2 103	4.6	962	2.5	7 614	2.4
Towner	276	7.5	4 251	6.0	331	7.5	773	6.7	461	1.8	3 831	3.1
Traill	383	3.8	13 861	3.3	415	4.7	1 314	4.1	504	2.0	6 943	3.0
Walsh	543	6.0	20 266	1.7	616	4.0	1 699	4.4	754	1.8	13 731	1.8
Ward	527	6.9	6 631	5.5	883	4.0	1 582	3.8	1 095	2.0	5 841	3.1
Wells	320	8.2	5 076	6.6	587	3.5	1 253	7.1	608	3.2	4 695	4.7
Williams	422	8.1	4 346	6.5	706	4.3	1 076	6.0	825	2.4	4 414	5.5
	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)
North Dakota	31 124	1.7	652 308	1.2	28 967	1.7	27 469 875	1.1	27 804	1.7	19 216 531	.9
Adams	353	1.8	5 127	7.2	331	2.0	(D)	(D)	308	2.0	194 388	1.2
Barnes	840	1.2	25 064	3.1	771	1.3	761 213	.7	754	1.3	662 017	.6
Benson	635	1.8	8 269	7.8	604	1.7	632 548	1.0	588	1.7	459 506	.9
Billings	243	3.0	1 692	23.2	213	3.0	134 323	2.8	185	3.1	57 872	3.1
Bottineau	797	1.4	15 821	5.2	764	1.6	823 847	.8	742	1.6	578 559	.8
Bowman	344	1.9	5 012	7.1	297	2.4	(D)	(D)	269	2.5	143 056	1.7
Burke	463	2.4	7 932	7.9	451	2.6	444 536	2.0	427	2.6	239 886	1.8
Burleigh	795	2.9	5 304	12.7	704	3.0	483 013	2.4	664	3.0	285 854	2.3
Cass	1 005	1.2	35 527	3.3	946	1.0	1 019 954	.5	925	1.0	936 292	.5
Cavalier	743	1.3	21 421	4.7	709	1.3	801 803	.7	698	1.3	682 481	.7
Dickey	552	2.8	13 017	6.8	513	2.9	498 608	1.5	476	2.9	378 520	1.4
Divide	527	2.3	9 251	8.6	508	2.2	554 623	1.9	491	2.2	264 308	1.8
Dunn	650	2.4	7 892	9.7	575	2.6	436 378	2.2	551	2.6	260 141	2.0
Eddy	311	1.2	5 085	13.1	294	1.8	286 846	1.4	277	1.8	188 252	1.3
Emmons	759	3.7	11 759	8.4	690	2.2	531 230	1.7	646	2.1	338 540	1.6
Foster	297	2.2	7 223	21.3	270	2.0	310 042	1.1	261	2.0	248 128	1.1
Golden Valley	218	3.2	4 255	22.6	204	1.6	(D)	(D)	188	1.3	118 690	.6
Grand Forks	751	1.2	29 250	2.5	718	1.0	717 505	.5	696	1.1	617 551	.5
Grant	598	2.7	8 453	10.7	538	2.7	477 629	1.9	529	2.7	292 739	1.7
Griggs	382	1.1	9 228	7.2	353	1.1	330 810	.8	327	1.2	258 986	.7
Hettinger	427	2.4	10 793	6.3	401	2.3	569 299	1.6	387	2.3	323 330	1.4
Kidder	499	2.9	9 501	13.2	472	2.9	399 143	2.2	452	2.9	238 536	2.2
La Moure	678	2.4	21 410	4.1	636	2.3	583 227	1.5	607	2.3	446 200	1.4
Logan	472	3.0	10 346	6.0	445	2.8	344 586	2.3	423	2.8	223 101	2.2
McHenry	889	2.6	12 579	9.2	806	2.6	690 882	2.1	761	2.7	427 489	1.8
McIntosh	483	2.7	9 870	6.2	456	2.3	365 175	1.8	427	2.3	265 410	1.6
McKenzie	739	2.0	13 689	6.9	680	2.1	507 063	1.4	647	2.0	283 757	1.4
McLean	926	3.0	17 369	7.8	884	2.7	874 045	1.9	853	2.7	539 063	1.6
Mercer	528	2.7	5 131	9.3	456	2.6	265 838	2.5	434	2.7	149 564	2.3

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 – 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)
Morton	923	2.7	15 256	7.6	818	2.7	575 546	2.0	784	2.7	370 969	1.9
Mountrail	744	2.7	11 354	6.3	709	2.7	690 625	2.0	679	2.7	366 747	1.8
Nelson	483	1.8	12 805	7.4	456	1.8	470 529	1.1	448	1.8	361 224	1.1
Oliver	325	2.5	3 870	13.0	300	2.3	187 088	2.0	289	2.3	127 180	1.8
Pembina	625	1.2	23 266	2.7	600	1.2	559 306	.5	591	1.2	486 118	.5
Pierce	501	2.6	5 212	9.1	476	2.7	466 846	2.0	464	2.7	310 239	1.9
Ramsey	512	1.9	14 643	5.5	492	1.5	585 434	.8	485	1.5	451 614	.8
Ransom	451	1.4	11 776	6.0	408	2.3	340 082	1.3	383	2.3	278 980	1.1
Renville	396	1.4	10 164	5.6	390	1.4	445 807	.9	385	1.5	311 151	.9
Richland	955	1.3	28 954	2.3	883	1.3	743 424	.7	860	1.3	660 782	.6
Rolette	486	2.5	7 234	7.7	436	2.5	364 343	1.9	428	2.5	251 194	1.7
Sargent	481	2.2	11 886	4.7	454	1.5	416 775	.9	435	1.5	346 347	.8
Sheridan	419	2.9	4 104	15.1	394	2.9	363 907	2.3	376	3.0	218 227	2.0
Sioux	200	2.8	2 389	18.1	176	2.7	134 313	2.1	168	2.8	86 488	1.7
Slope	271	1.7	4 238	11.6	248	1.3	282 120	1.2	232	1.4	149 212	1.1
Stark	787	2.9	7 285	10.7	703	2.9	544 181	2.3	650	2.9	305 355	2.2
Steele	335	1.4	11 054	4.5	326	1.0	405 379	.6	324	1.0	355 660	.5
Stutsman	988	2.2	21 924	5.2	900	1.7	996 088	.8	840	1.7	720 857	.7
Towner	461	1.8	12 790	5.9	448	1.1	529 868	.7	439	1.1	402 271	.7
Traill	517	1.3	17 152	7.0	494	1.2	483 085	.6	490	1.2	444 108	.6
Walsh	780	1.5	23 069	3.9	746	1.5	681 458	.7	723	1.5	564 709	.6
Ward	1 108	1.9	17 216	4.0	1 035	1.9	949 288	1.3	999	1.9	652 316	1.2
Wells	639	2.4	13 193	8.7	603	2.2	639 400	1.4	581	2.3	463 453	1.3
Williams	833	2.3	14 204	7.0	783	2.5	846 635	1.8	758	2.5	429 114	1.7
Geographic area	Irrigated land				Livestock and poultry							
	Farms		Acres		Cattle and calves inventory				Beef cows inventory			
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total	Relative standard error of estimate (percent)	Farms	Relative standard error of estimate (percent)	Total	Relative standard error of estimate (percent)
North Dakota	816	1.5	187 212	.8	15 183	1.9	1 723 920	1.4	13 216	1.9	837 716	1.5
Adams	3	19.1	(D)	(D)	211	1.7	31 564	1.2	192	1.9	16 481	1.3
Barnes	10	7.0	1 995	2.5	349	1.5	28 033	1.3	291	1.7	12 129	1.5
Benson	9	5.5	1 922	3.7	300	1.8	28 209	1.3	262	1.8	14 585	1.4
Billings	3	23.4	50	22.2	194	3.0	27 477	2.4	167	3.2	16 393	2.6
Bottineau	2	—	(D)	(D)	267	2.0	17 195	2.2	242	2.1	9 313	2.3
Bowman	5	13.9	571	7.9	205	2.7	27 645	1.8	189	2.7	15 618	1.7
Burke	1	47.9	(D)	(D)	160	3.4	11 412	3.5	153	3.4	7 173	3.4
Burleigh	36	5.3	4 310	5.1	454	3.2	56 237	2.2	401	3.3	28 439	2.5
Cass	24	3.8	10 238	.7	191	2.0	20 822	1.1	145	2.4	6 358	1.7
Cavalier	1	39.1	(D)	(D)	136	2.5	6 696	2.7	131	2.5	3 897	2.9
Dickey	47	3.6	15 903	2.5	313	3.1	46 072	2.1	282	3.2	20 323	2.3
Divide	11	8.3	2 220	6.6	227	2.6	15 795	2.4	221	2.6	9 033	2.5
Dunn	5	9.7	280	10.4	530	2.6	84 499	1.9	495	2.6	43 140	2.0
Eddy	7	8.4	1 791	5.8	184	2.3	21 100	2.1	169	2.4	11 735	2.1
Emmons	12	7.5	3 602	5.5	515	2.3	63 598	1.7	393	2.4	25 041	2.1
Foster	8	7.2	3 399	1.8	118	3.1	16 453	2.8	113	3.1	7 017	3.4
Golden Valley	9	6.0	2 326	.7	130	1.4	21 484	1.1	119	1.4	12 393	1.2
Grand Forks	37	2.2	10 377	1.0	159	2.1	14 897	1.2	129	2.4	3 692	2.1
Grant	22	7.0	2 723	6.5	471	2.6	66 573	2.0	418	2.7	34 438	2.0
Griggs	13	4.5	2 752	2.4	182	1.7	15 998	1.9	163	1.9	7 912	1.9
Hettinger	7	14.1	589	19.3	255	2.8	24 836	2.2	215	2.9	11 708	2.6
Kidder	21	6.0	6 565	2.8	376	2.9	61 669	2.3	347	2.9	32 597	2.4
La Moure	22	4.5	6 158	3.9	354	2.6	35 721	2.0	270	2.8	12 729	2.5
Logan	6	8.2	1 550	.6	365	2.8	57 371	2.2	295	3.1	24 021	2.6
McHenry	24	7.4	6 698	4.8	553	2.7	60 421	2.2	496	2.8	33 034	2.2
McIntosh	2	24.1	(D)	(D)	331	2.5	44 186	1.8	274	2.6	17 288	2.2
McKenzie	99	2.6	23 434	1.7	444	2.1	69 911	1.6	422	2.2	42 435	1.7
McLean	31	4.7	4 588	1.8	468	2.9	42 417	2.2	415	2.9	19 083	2.5
Mercer	14	7.6	2 304	8.4	335	2.8	38 804	2.0	300	2.9	20 790	2.1
Morton	42	5.6	4 744	3.6	695	2.7	95 475	2.0	571	2.8	43 115	2.2
Mountrail	3	23.0	220	35.7	353	3.0	28 842	2.6	326	3.1	17 892	2.6
Nelson	3	19.7	(D)	(D)	180	2.0	13 206	2.0	159	2.1	6 525	2.6
Oliver	18	5.1	4 207	14.5	245	2.7	29 638	2.2	214	3.0	14 836	2.6
Pembina	2	15.7	(D)	(D)	128	2.5	10 579	2.2	117	2.6	(D)	(D)
Pierce	5	14.1	495	17.3	242	3.0	24 544	2.6	205	3.2	11 069	3.1
Ramsey	3	13.7	(D)	(D)	105	2.5	8 042	2.1	88	2.8	3 809	2.7
Ransom	46	3.3	17 495	1.6	245	1.9	31 219	1.8	212	2.1	14 324	2.0
Renville	—	—	—	—	119	2.2	6 807	2.4	102	2.4	3 580	2.2
Richland	10	5.5	2 127	.1	334	1.8	32 072	1.4	252	1.9	12 133	1.7
Rolette	1	—	(D)	(D)	286	2.7	27 839	2.5	252	2.7	14 195	2.6
Sargent	26	2.3	8 483	1.2	221	1.8	26 087	1.4	182	2.0	10 248	1.7
Sheridan	—	—	—	—	244	3.2	24 365	3.2	214	3.3	12 897	3.2
Sioux	2	—	(D)	(D)	157	2.9	32 372	1.6	152	2.9	20 324	1.6
Slope	9	9.4	358	7.9	179	1.8	27 787	1.4	172	1.8	16 293	1.5

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — 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			
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	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)
Stark	9	10.8	843	16.3	568	2.8	60 165	2.3	441	3.0	25 016	2.8
Steele	9	5.4	3 276	1.0	84	2.3	5 614	2.3	72	2.4	2 496	2.4
Stutsman	25	4.3	5 210	2.1	533	1.8	71 124	1.5	442	1.9	31 892	1.8
Towner	3	20.2	(D)	(D)	116	2.2	5 628	1.9	109	2.2	(D)	(D)
Traill	6	8.2	411	.1	61	3.0	4 772	2.0	46	3.6	(D)	(D)
Walsh	13	4.8	2 391	1.1	225	2.3	13 099	2.8	212	2.4	6 941	2.8
Ward	28	5.8	1 331	20.8	466	1.9	33 771	1.6	421	2.0	16 532	1.7
Wells	3	—	(D)	(D)	285	2.8	27 664	2.2	234	2.9	10 956	2.8
Williams	59	4.0	15 070	2.5	335	2.7	26 114	2.3	312	2.8	14 969	2.4
Livestock and poultry — Con.												
Geographic area	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)
North Dakota	1 925	2.0	74 885	1.5	1 932	1.8	346 082	1.2	1 623	1.9	217 240	1.7
Adams	12	7.7	361	5.4	22	5.8	2 420	5.8	41	4.4	12 252	2.5
Barnes	43	3.9	1 763	3.3	80	3.0	14 784	2.3	40	5.0	6 100	7.6
Benson	23	5.8	814	5.0	25	5.0	3 649	3.2	35	4.8	3 595	3.1
Billings	29	6.6	467	8.0	22	8.0	2 445	10.6	10	11.1	834	16.8
Bottineau	22	6.0	457	8.4	25	6.0	2 463	5.8	54	4.0	2 113	5.6
Bowman	17	7.5	227	7.0	32	6.1	5 387	3.5	79	4.0	26 926	2.8
Burke	7	17.1	210	18.7	24	6.7	1 385	7.3	23	8.3	3 184	11.4
Burleigh	35	5.7	1 133	6.5	46	5.7	5 598	11.6	53	5.6	4 321	9.7
Cass	11	6.6	672	2.6	106	2.8	32 963	2.0	43	4.2	7 604	2.0
Cavalier	5	16.6	103	13.4	26	6.1	4 071	8.7	9	10.2	1 301	19.3
Dickey	26	4.7	1 473	2.4	58	4.1	20 899	2.1	59	5.1	8 991	4.6
Divide	5	15.7	91	28.9	37	6.1	4 403	7.2	18	7.5	6 375	2.4
Dunn	60	4.8	1 445	5.6	39	6.1	4 790	6.5	36	5.9	3 657	6.8
Eddy	25	5.9	678	6.2	8	10.6	431	12.8	15	7.2	3 616	5.4
Emmons	170	2.9	8 052	2.3	56	4.4	3 591	5.9	21	6.9	1 227	9.1
Foster	5	19.6	218	14.0	18	7.6	5 433	6.5	32	5.0	3 855	1.9
Golden Valley	21	3.3	739	2.0	20	4.7	2 447	5.5	18	4.6	3 135	4.7
Grand Forks	15	6.2	507	10.5	30	5.2	8 184	6.8	13	7.7	2 232	3.2
Grant	109	3.9	3 580	3.4	82	4.2	12 922	4.2	45	5.7	7 476	8.3
Griggs	17	6.8	634	9.2	19	7.0	2 472	5.8	24	6.1	1 356	8.5
Hettinger	46	5.4	1 722	4.8	40	5.5	12 328	3.5	28	7.3	3 678	9.1
Kidder	49	4.1	1 963	3.2	35	6.5	3 260	6.3	41	5.7	8 737	6.8
La Moure	72	3.9	3 470	3.0	42	5.1	10 124	2.1	52	5.2	3 891	7.6
Logan	79	4.0	3 534	3.1	15	8.7	1 544	6.8	9	13.8	803	21.7
McHenry	53	5.7	1 459	6.9	36	6.5	3 176	7.5	52	5.6	5 274	5.7
McIntosh	63	3.8	2 643	2.3	24	6.8	2 490	8.9	29	7.3	1 951	7.3
McKenzie	20	6.7	280	1.5	26	6.0	4 851	8.8	27	5.9	9 289	4.4
McLean	49	5.2	1 854	4.1	43	5.1	4 210	5.0	30	6.1	2 338	10.1
Mercer	47	6.2	967	7.9	22	7.6	1 540	5.4	19	8.3	1 100	15.2
Morton	137	3.3	7 424	2.5	100	4.2	12 539	5.0	41	6.4	5 189	6.1
Mountrail	26	8.0	679	8.9	22	8.6	767	13.7	33	6.2	5 175	6.4
Nelson	18	5.2	886	4.1	12	7.9	1 848	9.3	29	4.9	3 729	2.5
Oliver	41	4.4	1 844	3.6	24	5.8	3 247	6.9	31	5.3	3 688	7.1
Pembina	2	15.7	(D)	(D)	26	5.6	10 917	4.4	5	13.1	(D)	(D)
Pierce	35	6.2	1 197	6.1	20	8.6	1 195	17.4	17	9.2	1 165	13.4
Ramsey	6	11.2	407	2.6	19	7.0	1 876	8.8	10	9.9	1 150	9.7
Ransom	15	5.8	782	2.6	63	3.4	25 432	1.9	33	5.9	1 569	7.0
Renville	10	7.5	312	7.3	9	7.5	417	5.7	19	7.6	2 070	12.8
Richland	41	4.8	1 790	4.0	142	2.6	36 210	2.6	27	5.8	3 404	11.7
Rolette	33	5.4	1 113	4.7	15	8.5	841	27.5	16	7.9	1 242	9.7
Sargent	21	4.8	1 279	4.3	73	3.4	19 042	1.9	29	6.2	1 472	7.7
Sheridan	47	5.6	1 406	7.0	16	8.8	467	13.6	7	14.7	205	19.9
Sioux	20	6.2	765	5.1	11	10.2	1 517	15.5	8	10.9	2 904	2.4
Slope	14	7.8	145	17.0	19	5.9	2 048	6.4	31	5.0	3 539	9.3
Stark	118	3.8	4 787	3.2	76	4.3	9 874	4.6	55	5.3	4 509	7.2
Steele	6	9.4	316	6.8	9	6.8	1 881	4.0	13	6.0	1 569	3.7
Stutsman	83	3.0	4 032	2.4	41	4.4	9 369	2.0	64	3.8	10 164	2.5
Towner	2	22.8	(D)	(D)	19	7.0	2 784	9.6	18	6.1	1 910	11.9
Traill	1	—	(D)	(D)	18	5.9	6 067	6.2	9	9.3	(D)	(D)
Walsh	3	16.7	135	15.3	23	6.0	4 941	3.1	25	6.7	1 777	9.5
Ward	54	4.0	2 055	2.4	48	4.1	2 736	3.9	67	3.8	4 709	4.8
Wells	42	5.2	1 597	5.5	35	6.0	4 262	7.3	37	5.9	3 571	5.2
Williams	15	8.6	197	10.5	34	6.8	1 545	7.7	44	5.8	4 518	5.2

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 – Con.

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

Geographic area	Livestock and poultry – Con.							
	Hens and pullets of laying age 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)
North Dakota	828	2.4	246 952	.5	160	3.1	38 573	3.1
Adams	9	9.0	311	10.2	1	40.5	(D)	(D)
Barnes	19	6.1	(D)	(D)	6	12.0	342	16.8
Benson	8	12.1	313	17.0	2	24.8	(D)	(D)
Billings	18	9.3	505	11.9	–	–	–	–
Bottineau	18	6.8	443	8.9	2	18.6	(D)	(D)
Bowman	11	10.0	186	11.2	–	–	–	–
Burke	10	10.9	293	18.9	2	22.6	(D)	(D)
Burleigh	36	6.5	1 342	15.7	2	29.9	(D)	(D)
Cass	14	7.6	(D)	(D)	3	22.9	575	22.8
Cavalier	14	8.4	(D)	(D)	7	14.0	691	16.1
Dickey	12	12.0	1 519	36.4	4	17.8	752	12.6
Divide	8	14.0	285	16.8	2	22.6	(D)	(D)
Dunn	41	6.0	965	9.7	2	23.4	(D)	(D)
Eddy	8	9.9	186	6.5	2	26.0	(D)	(D)
Emmons	13	8.6	788	13.2	1	–	(D)	(D)
Foster	6	12.7	150	9.8	–	–	–	–
Golden Valley	3	15.7	103	16.1	1	27.5	(D)	(D)
Grand Forks	13	7.3	(D)	(D)	3	21.1	100	29.1
Grant	42	6.7	1 721	11.1	6	18.9	585	27.5
Griggs	8	11.4	216	10.9	2	24.5	(D)	(D)
Hettinger	21	8.2	781	10.3	1	–	(D)	(D)
Kidder	7	14.2	367	15.5	–	–	–	–
La Moure	13	10.0	(D)	(D)	2	–	(D)	(D)
Logan	19	8.5	562	8.3	2	16.5	(D)	(D)
McHenry	30	6.7	976	8.6	9	10.8	707	15.1
McIntosh	14	11.2	487	17.8	5	13.7	365	13.6
McKenzie	28	6.5	1 140	12.4	2	27.2	(D)	(D)
McLean	16	9.5	795	14.6	7	13.5	1 010	15.1
Mercer	27	7.4	1 000	8.4	10	11.5	1 240	13.5
Morton	47	5.6	2 168	12.7	14	11.3	1 332	16.3
Mountrail	16	7.7	875	14.3	4	17.5	395	25.8
Nelson	5	14.0	420	27.2	–	–	–	–
Oliver	12	8.3	324	8.1	4	10.4	400	10.4
Pembina	9	10.7	666	5.4	2	15.7	(D)	(D)
Pierce	8	15.4	405	17.4	3	16.6	818	22.2
Ramsey	10	8.5	179	9.9	1	38.2	(D)	(D)
Ransom	12	7.9	738	10.0	–	–	–	–
Renville	7	11.4	264	18.9	–	–	–	–
Richland	17	8.2	780	12.1	8	12.8	6 810	13.9
Rolette	15	9.2	556	12.4	–	–	–	–
Sargent	11	9.7	174	13.2	6	14.6	728	15.7
Sheridan	8	14.1	153	14.5	–	–	–	–
Sioux	11	7.9	373	7.9	–	–	–	–
Slope	8	9.3	132	10.8	–	–	–	–
Stark	52	5.7	1 913	6.1	6	17.4	380	19.7
Steele	3	13.3	254	4.7	2	14.0	(D)	(D)
Stutsman	17	6.6	560	11.5	2	19.8	(D)	(D)
Towner	5	11.7	80	13.6	1	32.3	(D)	(D)
Traill	3	14.4	49	13.7	4	10.8	289	8.9
Walsh	7	8.7	126	14.3	7	10.8	1 020	7.7
Ward	19	7.8	717	9.2	8	8.8	2 422	3.9
Wells	16	9.6	8 057	6.1	2	–	(D)	(D)
Williams	24	8.3	911	11.4	–	–	–	–

Geographic area	Selected crops harvested											
	Corn for grain or seed					Corn for silage or green chop						
	Farms		Acres		Quantity	Farms		Acres		Quantity		
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, green		
North Dakota	3 353	1.0	595 347	.6	37 487 419	.6	3 443	1.6	278 181	1.1	1 714 645	1.1
Adams	12	4.8	574	2.9	21 260	3.0	47	3.3	5 350	2.1	28 304	2.2
Barnes	146	1.7	11 184	1.3	552 852	1.4	96	2.5	6 106	1.8	38 969	2.1
Benson	30	3.1	3 141	3.9	171 566	2.6	71	2.3	5 608	1.5	26 335	2.4
Billings	4	12.4	124	4.0	5 468	2.4	13	8.6	812	5.7	3 524	5.7
Bottineau	14	2.4	1 145	1.5	63 520	1.3	24	4.5	1 082	6.9	6 684	6.2
Bowman	4	–	673	–	21 850	–	19	6.4	1 736	3.8	9 563	8.4
Burke	5	13.6	248	10.6	10 396	15.5	2	34.0	(D)	(D)	(D)	(D)
Burleigh	46	4.9	4 089	3.5	208 320	3.0	91	3.6	11 393	1.8	79 852	1.2
Cass	346	1.2	82 088	.7	5 161 517	.7	62	2.9	3 400	1.6	27 606	1.4
Cavalier	3	13.0	117	24.4	4 355	29.5	6	13.9	171	21.7	1 104	18.1
Dickey	245	2.5	62 498	1.5	3 732 867	1.3	99	3.6	8 100	2.1	48 924	2.8
Divide	6	14.9	447	33.2	14 726	27.1	2	–	(D)	(D)	(D)	(D)
Dunn	17	5.8	870	7.1	37 224	8.4	143	3.3	13 234	2.7	66 240	3.3
Eddy	19	5.0	2 739	2.8	148 460	2.6	80	2.7	6 976	2.3	43 717	3.4

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 —Con.

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

Geographic area	Selected crops harvested											
	Corn for grain or seed					Corn for silage or green chop						
	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)	Tons, green	Relative standard error of estimate (percent)
Emmons	93	2.5	7 968	3.6	344 331	2.9	201	2.3	18 949	2.1	116 628	2.2
Foster	46	1.8	6 342	.6	213 340	.6	55	4.0	4 660	5.7	23 848	6.1
Golden Valley	5	5.5	381	17.3	11 637	17.0	16	4.4	2 173	1.6	28 211	.7
Grand Forks	114	1.7	15 240	1.0	834 646	1.1	48	3.4	2 217	3.8	15 125	4.1
Grant	56	3.1	4 923	2.9	245 126	3.2	168	2.7	16 132	2.2	78 725	2.0
Griggs	23	2.4	2 327	2.3	120 390	2.2	42	3.8	2 601	3.0	22 325	5.5
Hettinger	10	6.9	8 861	3.0	39 530	2.6	44	3.8	3 029	3.3	13 634	4.8
Kidder	27	5.0	3 987	3.1	197 726	4.6	108	3.5	10 537	2.4	60 341	2.6
La Moure	230	2.2	30 376	1.6	1 731 235	1.7	99	3.4	6 194	2.4	40 673	2.6
Logan	15	6.7	1 534	3.0	83 623	2.7	112	3.5	9 509	2.7	49 858	2.7
McHenry	42	4.1	4 846	2.6	204 554	2.9	86	3.8	7 342	2.4	59 157	1.6
McIntosh	18	5.4	1 025	6.1	55 887	4.7	87	2.6	8 431	1.6	49 387	1.2
McKenzie	20	4.6	1 095	3.2	98 834	3.9	39	3.3	2 797	3.0	27 039	3.2
McLean	37	3.1	3 255	2.1	157 798	1.5	74	4.1	5 354	3.4	33 414	3.3
Mercer	14	7.0	819	4.9	45 974	8.6	81	4.6	6 064	4.2	38 853	5.9
Morton	73	2.4	8 093	.8	433 659	.8	262	2.6	22 064	2.0	147 719	2.1
Mountrail	4	12.3	362	3.5	10 727	2.3	12	9.4	792	9.5	3 560	9.2
Nelson	16	4.9	1 102	3.6	62 240	4.1	41	3.3	1 949	2.2	11 969	2.5
Oliver	18	5.6	1 848	4.0	95 456	3.6	81	2.8	7 501	2.0	48 848	1.9
Pembina	46	2.0	4 661	1.3	235 845	1.7	25	4.3	1 460	5.8	16 656	7.9
Pierce	27	5.0	1 828	5.7	74 957	6.8	59	3.8	3 856	2.8	21 177	3.9
Ramsey	8	4.8	953	4.6	50 985	5.2	19	4.9	1 351	2.7	7 257	2.2
Ransom	206	2.2	54 850	1.2	3 729 952	1.1	77	2.6	6 067	2.6	44 479	2.4
Renville	2	—	(D)	(D)	(D)	(D)	10	4.8	599	4.5	3 770	7.2
Richland	559	1.3	154 685	.7	11 627 434	.7	114	2.7	5 937	2.4	40 988	2.6
Rolette	9	5.2	431	6.3	21 030	6.5	19	4.5	1 225	2.4	7 740	3.1
Sargent	253	1.7	56 553	.9	3 651 471	1.0	55	2.8	3 935	2.0	27 743	1.9
Sheridan	24	3.6	1 559	2.4	80 911	1.9	44	4.5	2 998	3.9	16 356	3.3
Sioux	7	—	1 028	(D)	71 987	(D)	35	5.1	3 062	3.3	15 433	4.2
Slope	1	39.5	(D)	(D)	(D)	(D)	15	6.2	1 443	3.9	6 180	3.6
Stark	27	4.7	1 450	5.7	70 306	5.0	116	3.5	11 206	2.7	59 823	2.7
Steele	58	1.9	8 883	1.2	488 566	1.0	22	4.1	710	3.7	6 389	6.3
Stutsman	104	1.7	11 166	1.0	479 489	1.3	164	1.7	14 885	1.5	83 888	1.6
Towner	5	6.5	520	2.8	28 725	2.3	13	6.0	452	3.4	3 867	3.3
Trail	116	1.9	17 294	1.4	1 094 155	1.4	12	5.6	546	2.8	3 918	3.9
Walsh	44	2.8	4 602	2.0	293 262	1.8	55	3.9	2 581	4.0	17 298	4.8
Ward	29	3.1	2 206	1.4	118 256	.9	48	2.4	3 133	1.1	19 548	1.1
Wells	65	2.4	5 869	1.5	207 862	1.5	112	3.4	8 791	2.5	45 224	2.7
Williams	5	9.8	236	16.6	14 070	4.1	18	4.8	1 483	1.4	17 878	1.0

Selected crops harvested —Con.

Geographic area	Selected crops harvested —Con.											
	Wheat for grain					Barley 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)
North Dakota	22 918	1.7	10 627 608	.9	409 882 271	.8	13 979	1.4	2 388 696	.7	142 747 145	.6
Adams	248	2.1	110 072	1.4	3 329 066	1.5	118	2.1	14 467	1.5	598 412	1.3
Barnes	673	1.3	361 022	.7	16 129 139	.7	523	1.3	120 022	.7	8 467 054	.7
Benson	523	1.7	285 575	.9	9 253 323	.9	383	1.7	72 959	.9	3 535 494	.9
Billings	102	4.2	23 863	4.1	530 581	4.0	37	6.0	2 764	3.0	108 935	1.9
Bottineau	639	1.5	376 517	.8	13 083 670	.8	487	1.4	124 744	.7	6 024 854	.6
Bowman	193	2.8	83 601	2.0	2 313 132	1.9	101	3.2	12 820	1.8	455 821	1.8
Burke	385	2.7	173 731	1.8	6 336 654	1.8	194	2.8	27 986	1.7	1 452 887	1.6
Burleigh	405	3.3	138 758	2.5	4 054 770	2.5	163	4.0	14 702	2.7	682 891	2.7
Cass	826	1.0	410 602	.5	19 853 537	.5	540	1.1	110 384	.7	8 150 557	.7
Cavalier	675	1.3	468 298	.7	21 714 592	.8	591	1.3	166 621	.7	11 425 836	.7
Dickey	370	2.9	154 149	1.5	6 331 136	1.4	187	3.0	25 321	2.0	1 576 900	1.8
Divide	451	2.3	207 070	1.9	7 871 741	1.9	202	2.7	20 388	2.2	1 086 271	2.3
Dunn	376	2.9	109 586	2.2	3 002 108	2.1	198	2.8	19 635	1.8	821 790	1.6
Eddy	222	1.8	93 491	1.3	2 822 280	1.4	122	2.1	13 536	1.5	658 388	1.6
Emmons	525	2.3	184 289	1.6	5 456 235	1.6	220	2.3	23 290	1.8	1 119 321	1.6
Foster	241	2.1	146 410	1.1	5 226 193	1.1	121	2.5	16 450	1.8	972 873	1.8
Golden Valley	151	1.5	78 100	.7	2 717 773	.8	94	1.6	12 583	1.1	601 935	1.2
Grand Forks	611	1.0	278 837	.5	14 693 420	.5	485	1.1	107 979	.6	8 167 996	.6
Grant	383	2.8	126 819	1.7	3 815 314	1.7	238	2.7	26 874	1.8	1 184 170	1.8
Griggs	292	1.2	134 806	.8	5 668 961	.8	219	1.5	55 451	.8	3 692 740	.8
Hettinger	341	2.4	237 250	1.3	8 159 158	1.3	174	2.7	23 053	1.8	1 005 650	1.8
Kidder	311	3.0	75 935	2.5	2 369 281	2.3	140	3.4	13 438	2.8	580 858	2.8
La Moure	541	2.4	223 601	1.5	9 841 499	1.4	288	2.4	38 510	1.6	2 602 533	1.6
Logan	342	2.9	108 465	2.2	3 552 353	2.1	215	3.2	21 554	2.6	1 044 412	2.4
McHenry	550	2.7	190 295	2.0	5 597 737	1.9	313	2.7	44 478	1.8	2 168 175	1.8
McIntosh	369	2.4	145 981	1.7	4 537 571	1.7	207	2.5	21 014	2.0	1 075 685	2.1
McKenzie	484	2.0	172 209	1.4	6 672 488	1.4	205	2.1	18 831	1.6	898 775	1.6
McLean	737	2.7	362 971	1.6	12 527 581	1.6	333	2.6	49 508	1.4	2 618 564	1.3
Mercer	313	3.0	74 862	2.6	2 398 921	2.6	109	3.6	8 179	2.9	395 381	2.5

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — Con.

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

Geographic area	Selected crops harvested — Con.											
	Wheat for grain					Barley 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)
Morton	551	2.8	162 087	2.1	5 387 400	2.0	369	2.9	39 168	1.8	1 969 752	1.9
Mountrail	582	2.7	274 565	1.8	9 968 718	1.8	241	3.0	26 599	2.3	1 386 435	2.3
Nelson	404	1.9	218 394	1.0	9 372 427	1.0	321	1.8	64 882	1.2	4 124 892	1.2
Oliver	197	2.6	50 314	2.0	1 774 761	1.9	136	2.3	13 775	1.9	758 288	1.7
Pembina	523	1.1	286 767	.6	15 671 501	.5	363	1.3	59 461	.7	4 584 226	.6
Pierce	393	2.8	166 154	2.0	4 764 592	2.0	297	2.8	48 956	1.8	2 133 926	1.8
Ramsey	438	1.5	289 148	.8	11 670 187	.7	392	1.5	94 087	.9	5 876 826	.9
Ransom	278	2.4	104 951	1.3	4 704 667	1.2	156	2.2	25 923	1.3	1 787 140	1.2
Renville	365	1.5	205 643	.9	8 114 995	.9	299	1.4	72 696	.9	4 105 301	.9
Richland	644	1.2	199 732	.7	9 603 319	.6	205	2.0	21 415	1.6	1 474 759	1.5
Rolette	298	2.4	139 074	1.5	5 052 510	1.4	227	2.1	50 199	1.3	2 859 678	1.2
Sargent	367	1.6	146 405	.9	6 062 752	.9	195	2.0	25 424	1.3	1 556 226	1.3
Sheridan	312	3.1	119 670	2.0	3 187 100	2.0	170	3.1	27 614	2.2	1 090 742	1.9
Sioux	92	3.6	28 771	2.9	624 838	2.9	35	5.1	3 407	4.1	140 518	4.0
Slope	188	1.7	102 358	1.2	2 972 439	1.1	102	2.3	12 089	1.7	501 498	1.5
Stark	466	3.2	156 840	2.2	4 352 047	2.2	237	3.0	24 950	2.1	933 997	2.3
Steele	312	1.0	182 556	.6	8 004 635	.6	264	1.0	71 760	.6	4 834 352	.7
Stutsman	679	1.6	412 426	.7	16 026 065	.6	423	1.3	69 134	.7	4 299 133	.7
Towner	407	1.2	270 900	.8	10 663 328	.7	364	1.2	88 503	.7	5 352 859	.7
Traill	459	1.1	193 705	.6	9 062 647	.6	378	1.1	83 738	.7	6 223 758	.7
Walsh	624	1.3	312 742	.7	16 283 920	.6	441	1.3	66 715	.8	4 879 592	.8
Ward	858	2.0	440 273	1.2	15 768 090	1.2	533	1.8	87 902	1.0	4 663 907	1.0
Wells	523	2.3	277 013	1.3	9 206 965	1.3	339	2.2	55 633	1.4	2 885 441	1.3
Williams	679	2.6	349 955	1.7	11 722 154	1.7	285	2.8	27 125	1.6	1 148 741	1.7
Selected crops harvested — Con.												
Geographic area	Oats for grain					Sunflower seed						
	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)	Pounds	Relative standard error of estimate (percent)
	North Dakota	7 843	2.0	557 388	1.6	33 414 633	1.5	5 287	1.1	1 130 593	.6	1 260 442 267
Adams	103	2.7	8 174	1.9	453 854	2.0	2	—	(D)	(D)	142 980 512	(D)
Barnes	129	2.4	6 766	3.0	568 887	2.8	460	1.3	108 335	.7	33 493 467	.6
Benson	132	2.2	10 135	2.8	449 393	1.7	213	1.6	43 325	.9	33 493 467	1.3
Billings	82	4.4	4 570	3.9	212 860	4.1	2	24.1	(D)	(D)	(D)	(D)
Bottineau	145	2.4	9 684	2.6	581 117	2.4	103	1.9	20 780	1.3	15 459 312	1.4
Bowman	90	3.5	7 370	3.7	297 930	3.1	1	—	(D)	(D)	(D)	(D)
Burke	127	3.7	8 451	3.9	523 105	3.9	36	3.3	8 881	1.1	7 354 126	1.1
Burleigh	257	3.5	21 869	2.8	1 239 819	3.0	15	4.8	3 013	4.0	2 709 132	5.0
Cass	71	3.1	3 774	4.1	243 741	2.8	295	1.3	57 704	.9	93 171 392	.8
Cavalier	83	3.2	6 588	3.2	549 148	3.1	80	2.3	15 353	1.4	13 937 635	1.2
Dickey	150	3.6	11 388	2.5	811 072	2.6	149	2.5	43 404	1.1	57 760 519	1.2
Divide	105	3.6	4 520	4.0	292 941	4.2	30	5.3	3 226	6.1	2 264 663	6.8
Dunn	258	3.0	18 497	2.9	941 234	3.2	4	—	807	—	458 888	—
Eddy	95	2.6	6 801	2.6	378 290	2.9	121	2.1	26 637	1.5	21 687 248	1.6
Emmons	367	2.2	34 390	2.3	1 941 083	2.0	19	2.5	2 081	1.5	1 905 449	1.5
Foster	72	4.0	5 761	3.9	338 677	3.5	169	2.0	54 328	1.0	51 334 783	1.1
Golden Valley	70	1.7	5 725	1.3	364 576	1.5	—	—	—	—	—	—
Grand Forks	57	3.6	2 855	5.3	206 487	5.2	205	1.5	29 552	1.0	36 877 194	1.2
Grant	289	2.9	22 309	2.3	1 372 570	2.3	13	6.5	2 893	2.4	5 612 663	1.1
Griggs	66	3.0	3 906	2.1	291 071	2.2	159	1.6	30 132	1.0	36 225 178	.9
Hettinger	124	3.2	11 501	2.3	827 092	2.1	8	10.7	1 349	8.0	1 692 060	4.9
Kidder	196	3.4	16 614	2.6	920 191	2.6	12	4.2	2 167	4.0	1 906 000	6.0
La Moure	156	3.2	11 216	2.7	846 685	2.5	354	2.3	82 224	1.3	106 141 665	1.3
Logan	191	3.5	10 893	3.2	700 636	3.4	25	6.0	4 400	3.3	4 408 869	2.7
McHenry	286	3.1	23 009	3.0	1 052 833	3.1	157	2.8	29 684	1.9	26 099 880	1.8
McIntosh	252	2.6	21 591	2.2	1 438 816	2.0	41	3.6	9 116	2.3	8 674 000	2.3
McKenzie	181	2.5	9 447	2.1	556 603	2.0	3	—	880	—	430 000	—
McLean	349	2.9	28 395	2.5	1 586 257	2.9	51	2.9	8 736	1.1	9 603 098	1.1
Mercer	214	3.4	14 918	3.1	823 879	3.4	2	—	(D)	(D)	(D)	(D)
Morton	415	2.9	31 828	2.3	2 046 526	2.4	22	4.0	5 334	.8	5 668 177	.7
Mountrail	161	3.6	8 906	3.3	561 504	3.0	36	3.9	9 032	2.7	8 057 502	2.5
Nelson	80	2.8	4 007	3.2	264 621	3.1	254	2.0	48 831	1.3	45 543 914	1.5
Oliver	171	2.5	11 714	2.4	834 411	2.4	8	9.5	1 608	3.8	1 641 500	3.2
Pembina	41	4.1	1 427	4.5	103 112	4.7	49	1.9	6 795	.8	8 331 452	.8
Pierce	141	3.9	9 094	4.1	403 751	4.0	139	2.8	28 944	1.5	25 009 935	1.5
Ramsey	37	3.8	1 946	2.9	131 289	3.0	186	1.8	40 219	1.1	31 048 151	1.2
Ransom	100	2.7	6 006	2.7	420 349	2.7	157	2.2	32 899	1.2	50 323 398	1.1
Renville	98	2.3	8 008	2.7	473 555	2.6	30	3.3	5 956	1.1	5 855 320	1.2
Richland	88	3.1	3 917	3.6	265 137	3.7	191	1.7	30 476	1.3	48 567 381	1.4
Rolette	91	3.5	4 648	3.6	305 821	4.0	46	3.4	7 711	2.4	5 456 628	2.6
Sargent	61	3.1	3 540	2.7	274 912	2.4	156	2.3	26 223	1.6	34 799 078	1.4
Sheridan	148	3.9	9 508	4.4	515 181	3.9	77	3.0	15 560	1.8	8 184 865	1.6
Sioux	74	3.6	6 937	2.2	415 831	2.1	—	—	(D)	(D)	(D)	(D)
Slope	65	2.9	5 131	3.3	245 459	4.3	2	—	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table F. Reliability Estimates for the State and County Totals: 1992 — Con.

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

Geographic area	Selected crops harvested — Con.											
	Oats for grain					Sunflower seed						
	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)	Pounds	Relative standard error of estimate (percent)
Stark	309	3.4	22 143	2.7	1 182 832	2.6	6	—	1 202	—	857 113	—
Steele	17	4.6	905	6.9	77 740	7.2	139	1.4	25 633	.8	36 525 967	.9
Stutsman	229	2.1	15 107	2.1	1 051 498	2.2	353	1.1	113 501	5	121 731 760	.5
Towner	51	3.0	2 230	2.8	133 656	2.6	106	2.1	18 325	1.6	14 231 612	1.5
Traill	20	4.9	915	7.1	59 248	5.8	68	2.9	8 259	2.7	13 456 626	2.6
Walsh	94	3.4	3 831	3.7	245 438	4.5	122	2.5	13 911	2.0	13 722 853	2.2
Ward	337	2.2	24 829	2.2	1 540 186	2.1	128	2.1	31 605	1.1	33 415 374	1.1
Wells	134	3.3	10 758	2.5	544 601	2.7	282	2.2	66 081	1.4	63 702 991	1.4
Williams	184	3.2	8 936	2.9	507 128	3.1	1	49.0	(D)	(D)	(D)	(D)

Geographic area	Selected crops harvested — Con.					
	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					
	Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
North Dakota ..	15 695	1.9	2 467 853	1.7	3 267 324	1.6
Adams	229	1.9	56 118	1.6	69 818	1.5
Barnes	371	1.5	31 608	1.4	52 727	1.6
Benson	351	1.8	51 433	1.5	62 483	1.4
Billings	161	3.3	26 733	3.2	23 022	3.2
Bottineau	324	1.9	38 856	2.4	40 239	2.4
Bowman	202	2.8	40 377	2.4	43 004	2.7
Burke	208	3.2	23 834	3.7	30 083	3.8
Burleigh	489	3.1	97 014	2.8	119 216	2.8
Cass	208	1.8	14 022	1.6	33 160	1.9
Cavalier	134	2.6	8 526	2.7	15 810	2.5
Dickey	302	3.2	46 357	2.7	85 885	2.4
Divide	285	2.6	32 341	2.4	41 361	2.9
Dunn	494	2.7	107 681	2.3	107 185	2.3
Eddy	203	2.1	39 996	1.9	48 240	2.3
Emmons	449	2.1	77 608	2.0	107 445	1.9
Foster	131	2.8	14 735	3.7	22 999	4.6
Golden Valley	131	1.3	22 468	.9	26 992	1.2
Grand Forks	182	1.9	14 648	2.0	21 188	2.3
Grant	432	2.8	96 540	2.2	142 410	2.4
Griggs	186	1.8	21 704	2.0	31 901	2.3
Hettinger	277	2.7	47 072	2.4	63 329	2.4
Kidder	376	3.0	126 905	2.5	158 279	2.4
La Moure	367	2.6	39 532	2.5	82 296	2.4
Logan	338	3.0	77 518	2.7	116 772	2.9
McHenry	545	2.8	133 371	2.3	132 889	2.4
McIntosh	332	2.5	63 067	2.1	92 719	2.1
McKenzie	472	2.1	74 818	1.8	91 634	1.6
McLean	553	2.9	67 952	2.8	84 767	2.8
Mercer	319	2.9	47 449	2.3	60 605	2.3
Morton	654	2.8	119 397	2.3	183 279	2.2
Mountrail	409	3.0	55 551	2.6	58 556	2.6
Nelson	208	2.0	21 192	2.5	32 722	2.4
Oliver	248	2.7	43 422	2.2	68 774	2.2
Pembina	133	2.4	9 076	2.4	18 118	1.9
Pierce	282	3.0	53 980	2.9	49 955	2.7
Ramsey	161	2.2	14 709	3.4	23 866	3.0
Ransom	245	2.2	25 338	2.4	50 203	2.5
Renville	112	2.6	11 919	3.3	11 775	3.2
Richland	318	1.8	24 533	2.1	50 831	2.1
Rolette	306	2.7	47 592	3.3	66 413	3.1
Sargent	202	1.8	21 605	1.9	40 106	2.1
Sheridan	261	3.4	48 046	3.1	52 919	3.4
Sioux	139	3.1	47 557	1.8	59 744	1.8
Slope	179	1.7	31 016	1.5	27 664	1.5
Stark	539	3.0	96 132	2.8	114 279	2.9
Steele	83	2.1	5 838	2.3	12 176	2.6
Stutsman	530	1.6	85 677	1.7	118 570	1.6
Towner	137	1.9	10 938	1.7	16 736	2.1
Traill	66	2.9	4 380	4.6	9 472	2.0
Walsh	257	2.1	19 411	2.4	31 517	2.6
Ward	511	1.9	59 362	1.8	66 352	2.0
Wells	291	2.8	35 333	2.8	42 469	2.7
Williams	373	2.7	35 566	2.8	52 370	2.4

¹Data are based on a sample of farms.

Table G. State Estimates of the Not on the Mail List Component of Farm Coverage Error: 1992

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text]

Item	Census published farms		Not on mail list ¹		Percent not on mail list ¹	
	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (percent)	Standard error of percent
Farms ----- number	31 123	1.7	379	43.4	1.2	.5
Land in farms ----- acres ..	39 438 144	1.1	347 769	62.2	.9	.5
Average size of farm ----- acres ..	1 267.2	2.0	917.6	45.8	(X)	(X)
Farms by size:						
Less than 10 acres -----	785	2.2	—	(X)	—	(X)
10 to 49 acres -----	1 264	2.0	85	(H)	6.3	5.9
Less than 50 acres -----	2 049	1.9	85	(H)	4.0	3.8
50 acres or more -----	29 074	1.7	294	47.8	1.0	.5
50 to 99 acres -----	938	2.1	87	99.8	8.5	7.8
100 to 179 acres -----	2 007	2.2	—	(X)	—	(X)
180 acres or more -----	26 129	1.8	207	54.1	.8	.4
Harvested cropland ----- farms ..	27 804	1.7	111	51.7	.4	.2
----- acres ..	19 216 531	.9	66 273	59.0	.3	.2
Farms by value of sales:						
Less than \$1,000 -----	1 269	2.1	—	(X)	—	(X)
\$1,000 to \$2,499 -----	870	2.1	85	(H)	8.9	8.1
Less than \$2,500 -----	2 139	1.9	85	(H)	3.8	3.7
\$2,500 or more -----	28 984	1.7	294	47.8	1.0	.5
\$2,500 to \$9,999 -----	3 554	2.1	87	99.8	2.4	2.3
\$10,000 or more -----	25 430	1.7	207	54.1	.8	.4
Market value of agricultural products sold -----\$1,000 --	2 745 752	.8	8 118	44.6	.3	.2
Farms by standard industrial classification:						
Crops (01) -----	19 905	1.6	77	59.5	.4	.2
Livestock (02) -----	11 218	2.0	302	52.6	2.6	1.3
Farms by type of organization:						
Individual or family -----	27 093	1.8	379	43.4	1.4	.6
Partnership or corporation -----	3 853	1.5	—	(X)	—	(X)
Other -----	177	3.0	—	(X)	—	(X)
Farms by tenure of operator:						
Full owners -----	9 898	2.1	315	50.1	3.1	1.5
Part owners and tenants -----	21 225	1.6	64	71.2	.3	.2
Part owners -----	16 058	1.5	64	71.2	.4	.3
Tenants -----	5 167	2.0	—	(X)	—	(X)
Operators by place of residence:						
On farm operated -----	21 830	1.7	157	67.1	.7	.5
Not on farm operated -----	6 812	2.0	34	(H)	.5	.5
Not reported -----	2 481	1.5	188	65.0	7.0	4.3
Operators by principal occupation:						
Farming -----	25 189	1.7	157	67.1	.6	.4
Other -----	5 934	2.0	34	(H)	.6	.6
Operators by sex:						
Male -----	30 184	1.7	379	43.4	1.2	.5
Female -----	939	2.1	—	(X)	—	(X)
Operators by race:						
White -----	30 993	1.7	95	58.2	.3	.2
Black and other races -----	130	3.2	96	100.0	42.4	24.5
Operators by years on present farm:						
4 years or less -----	2 560	2.4	65	71.2	2.5	1.7
5 years or more -----	23 656	1.7	126	79.8	.5	.4
Average years on present farm -----	22.5	2.5	7.8	19.0	(X)	(X)
Not reported -----	4 907	1.6	188	65.0	3.7	2.3
Average age of operator -----	50.0	2.4	36.4	9.6	(X)	(X)

Note: These estimates do not account for incorrectly classified farms or farms appearing more than once in the census and are subject to change in the 1992 Coverage Evaluation publication. See appendix C text for further explanation.

¹Estimates are based on a sample survey conducted independently of census data collection.