

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 nonsample 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
Farmsnumber. .	13.7
Land in farms.....acres. .	9.5
Estimated market value of land and buildings ¹\$1,000. .	4.5
Market value of agricultural products sold ..\$1,000. .	7.1
Harvested croplandacres. .	8.8
Corn for grain or seedacres. .	8.5
Wheat for grainacres. .	8.2
Livestock and poultry inventory:	
Cattle and calvesnumber. .	8.5
Hogs and pigsnumber. .	6.9
Hens and pullets of laying age.....number. .	.6

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	6.0
50	4.2
75	3.4
100	2.9
150	2.3
200	1.9
300	1.5
500	1.0
7506
1,0003
1,5003
2,0002
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	20.9
50	16.8
75	15.2
100	14.3
150	13.3
200	12.8
300	12.3
500	11.9
750	11.7
1,000	11.6
1,500	11.5
2,000	11.4

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--	96 543	1.1	Total farm production expenses ----- farms --	96 532	1.1
Land in farms -----acres--	31 346 565	.9	----- \$1,000--	7 744 947	.7
Average size of farm -----acres--	325	1.4	Average per farm -----dollars--	80 232	1.3
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			Livestock and poultry purchased ----- farms --		
Total sales (see text) ----- farms --	96 543	1.1	----- \$1,000--	1 490 792	.7
----- \$1,000--	10 099 786	.6	Feed for livestock and poultry ----- farms --	58 661	1.2
Average per farm -----dollars--	104 614	1.3	----- \$1,000--	1 317 636	.7
Farms by value of sales:			Commercially mixed formula feeds ----- farms --	27 280	1.5
Less than \$1,000 (see text) ----- farms --	3 463	1.4	----- \$1,000--	540 402	1.0
\$1,000 to \$2,499 ----- \$1,000--	989	1.7	Seeds, bulbs, plants, and trees ----- farms --	78 194	1.1
\$2,500 to \$4,999 ----- \$1,000--	4 173	1.5	----- \$1,000--	386 488	.9
\$5,000 to \$9,999 ----- \$1,000--	7 047	1.5	Commercial fertilizer ----- farms --	74 421	1.2
\$10,000 to \$19,999 ----- \$1,000--	4 753	1.4	----- \$1,000--	578 142	1.0
\$20,000 to \$24,999 ----- \$1,000--	17 385	1.4	Agricultural chemicals ----- farms --	77 540	1.1
\$25,000 to \$39,999 ----- \$1,000--	7 030	1.3	Petroleum products ----- farms --	424 136	1.0
\$40,000 to \$49,999 ----- \$1,000--	51 291	1.3	----- \$1,000--	92 977	1.1
\$50,000 to \$99,999 ----- \$1,000--	9 888	1.3	Electricity ----- farms--	81 860	1.1
\$100,000 to \$249,999 ----- \$1,000--	145 328	1.3	----- \$1,000--	133 955	.9
\$250,000 to \$499,999 ----- \$1,000--	3 932	1.4	Hired farm labor ----- farms --	36 520	1.3
\$500,000 or more ----- \$1,000--	87 705	1.4	Contract labor ----- farms --	259 210	.9
Sales by commodity or commodity group:			Repair and maintenance ----- farms --	19 833	3.3
Crops, including nursery and greenhouse crops ----- farms --	75 351	1.1	----- \$1,000--	86 413	1.1
----- \$1,000--	4 641 155	.8	Customwork, machine hire, and rental of machinery and equipment ----- farms --	485 479	1.0
Grains ----- farms--	71 187	1.1	----- \$1,000--	48 890	1.3
Corn for grain ----- \$1,000--	4 489 827	.8	Interest expense ----- farms --	141 975	1.8
Wheat ----- farms--	63 885	1.1	----- \$1,000--	61 909	1.2
----- \$1,000--	2 687 476	.8	Secured by real estate ----- farms --	593 994	1.0
Wheat ----- farms--	913	1.4	----- \$1,000--	41 104	1.3
Soybeans ----- \$1,000--	3 322	1.3	Not secured by real estate ----- farms --	357 920	1.2
----- \$1,000--	59 854	1.1	----- \$1,000--	41 501	1.3
Sorghum for grain ----- farms--	1 780 675	.8	Cash rent ----- farms--	236 074	1.1
----- \$1,000--	57	3.7	Property taxes ----- farms--	38 795	1.3
Barley ----- farms--	424	5.1	----- \$1,000--	677 490	1.1
----- \$1,000--	80	3.0	All other farm production expenses ----- farms --	81 786	1.1
Oats ----- farms--	135	3.3	----- \$1,000--	240 832	1.1
----- \$1,000--	8 437	1.1	Other farm production expenses ----- farms --	93 438	1.1
Other grains ----- farms--	13 396	1.1	----- \$1,000--	615 377	.9
----- \$1,000--	399	1.6	NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
Cotton and cottonseed ----- farms --	—	—	All farms -----number--	96 541	1.1
----- \$1,000--	—	—	Average per farm -----dollars--	2 193 209	1.0
Tobacco ----- farms--	—	—	----- \$1,000--	22 718	1.5
----- \$1,000--	—	—	Farms with net gains ² -----number--	66 215	1.2
Hay, silage, and field seeds ----- farms --	16 431	1.1	Average net gain -----dollars--	2 477 696	.9
----- \$1,000--	78 959	1.1	Farms with net losses -----number--	30 326	1.5
Vegetables, sweet corn, and melons ----- farms --	905	1.3	Average net loss -----dollars--	284 487	1.8
----- \$1,000--	9 509	1.3	----- \$1,000--	9 381	2.4
Fruits, nuts, and berries ----- farms --	346	2.0	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
----- \$1,000--	3 499	2.7	Government payments ----- farms --	61 681	1.1
Nursery and greenhouse crops ----- farms --	518	1.7	----- \$1,000--	477 958	.8
----- \$1,000--	57 854	.6	Other farm-related income ¹ ----- farms--	34 193	1.5
Other crops ----- farms--	108	2.9	----- \$1,000--	194 941	2.5
----- \$1,000--	1 508	2.0	Customwork and other agricultural services ----- farms --	13 093	2.1
Livestock, poultry, and their products ----- farms --	64 668	1.1	----- \$1,000--	85 141	3.5
----- \$1,000--	5 458 631	.5	Gross cash rent or share payments ----- farms --	9 853	2.5
Poultry and poultry products ----- farms --	2 056	1.1	----- \$1,000--	86 052	3.9
----- \$1,000--	244 160	.2	Forest products and Christmas trees ----- farms --	630	8.9
Dairy products ----- farms --	5 544	1.3	----- \$1,000--	2 644	11.3
----- \$1,000--	421 556	1.0	Other farm-related income sources ----- farms --	18 831	1.8
Cattle and calves ----- farms --	43 780	1.1	----- \$1,000--	21 104	3.0
----- \$1,000--	2 235 422	.5	COMMODITY CREDIT CORPORATION LOANS		
Hogs and pigs ----- farms --	34 058	.5	Total ----- farms--	17 632	1.0
----- \$1,000--	2 502 048	.6	----- \$1,000--	574 092	.7
Sheep, lambs, and wool ----- farms --	7 141	1.1			
----- \$1,000--	38 861	.8			
Other livestock and livestock products (see text) ----- farms --	2 992	1.2			
----- \$1,000--	16 584	1.6			
Value of agricultural products sold directly to individuals for human consumption (see text) ----- farms --	2 235	1.2			
----- \$1,000--	5 382	1.3			

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—Con.		
1 to 9 acres ----- farms ..	7 129	1.2	Cattle and calves sold ----- farms ..	43 780	1.1
----- acres ..	23 915	1.3	----- number..	3 223 645	.6
10 to 49 acres ----- farms ..	10 345	1.2	----- \$1,000..	2 235 422	.5
----- acres ..	267 348	1.2	Hogs and pigs inventory ----- farms ..	31 790	1.0
50 to 69 acres ----- farms ..	2 780	1.3	----- number..	14 153 158	.6
----- acres ..	162 329	1.3	Hogs and pigs sold ----- farms ..	34 058	1.0
70 to 99 acres ----- farms ..	6 228	1.3	----- number..	26 812 736	.6
----- acres ..	505 893	1.3	----- \$1,000..	2 502 048	.6
100 to 139 acres ----- farms ..	6 677	1.3	----- farms ..	6 760	1.1
----- acres ..	782 888	1.3	----- number..	405 354	1.0
140 to 179 acres ----- farms ..	8 833	1.4	Sheep and lambs sold ----- farms ..	7 043	1.1
----- acres ..	1 394 907	1.4	----- number..	592 575	.8
180 to 219 acres ----- farms ..	5 708	1.4	Horses and ponies inventory ----- farms ..	8 961	1.1
----- acres ..	1 128 208	1.4	----- number..	47 681	1.2
220 to 259 acres ----- farms ..	6 112	1.4	Horses and ponies sold ----- farms ..	2 096	1.2
----- acres ..	1 451 881	1.4	----- number..	9 457	2.1
260 to 499 acres ----- farms ..	22 168	1.3			
----- acres ..	8 083 381	1.3			
500 to 999 acres ----- farms ..	15 830	1.0			
----- acres ..	10 770 679	.9			
1,000 to 1,999 acres ----- farms ..	4 241	—	POULTRY		
----- acres ..	5 418 105	—	Chickens 3 months old or older inventory ----- farms ..	2 633	1.2
2,000 acres or more ----- farms ..	492	—	----- number..	12 560 235	.2
----- acres ..	1 357 031	—	Hens and pullets of laying age ----- farms ..	2 590	1.2
			----- number..	11 162 662	.2
			Broilers and other meat-type chickens sold ----- farms ..	652	1.5
			----- number..	9 199 943	.3
			CROPS HARVESTED		
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			Corn for grain or seed ----- farms ..	72 756	1.1
Cash grains (011) ----- farms ..	46 658	1.1	----- acres ..	12 512 815	.8
----- acres ..	19 018 987	.9	----- bushels..	1 754 149 889	.8
Field crops, except cash grains (013) ----- farms ..	2 368	1.4	Corn for silage or green chop ----- farms ..	9 575	1.0
----- acres ..	291 344	1.5	----- acres ..	260 770	.8
Vegetables and melons (016) ----- farms ..	287	2.2	----- tons, green ..	4 096 921	.7
----- acres ..	15 100	3.3	----- farms ..	970	1.4
Fruits and tree nuts (017) ----- farms ..	215	2.5	----- acres ..	30 072	1.4
----- acres ..	9 362	2.9	Oats for grain ----- farms ..	1 183 472	1.4
Horticultural specialties (018) ----- farms ..	390	1.9	----- acres ..	17 854	1.1
----- acres ..	13 923	2.2	----- bushels..	368 086	1.0
General farms, primarily crop (019) ----- farms ..	1 092	1.5	Soybeans for beans ----- farms ..	23 246 559	1.0
----- acres ..	263 076	1.5	----- farms ..	59 945	1.1
Livestock, except dairy, poultry, and animal specialties (021) ----- farms ..	38 761	1.1	----- acres ..	8 243 067	.8
----- acres ..	10 231 439	.8	----- bushels..	352 590 997	.8
Dairy farms (024) ----- farms ..	3 531	1.3	Irish potatoes ----- farms ..	136	2.8
----- acres ..	919 160	1.2	----- acres ..	1 653	1.6
Poultry and eggs (025) ----- farms ..	483	1.3	----- cwt..	328 097	1.9
----- acres ..	73 233	.9	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ----- farms ..	44 768	1.1
Animal specialties (027) ----- farms ..	1 422	1.5	----- acres ..	1 762 425	1.1
----- acres ..	71 865	2.0	----- tons, dry ..	5 107 237	1.1
General farms, primarily livestock and animal specialties (029) ----- farms ..	1 336	1.5	----- farms ..	40 321	1.1
----- acres ..	439 076	1.3	----- acres ..	1 367 935	1.1
			----- tons, dry ..	4 315 698	1.1
			Vegetables harvested for sale (see text) ----- farms ..	905	1.3
			----- acres ..	14 849	1.5
			Land in orchards ----- farms ..	481	1.8
			----- acres ..	2 784	2.3
LIVESTOCK					
Cattle and calves inventory ----- farms ..	43 610	1.1			
----- number..	3 963 602	.8			
Beef cows ----- farms ..	29 987	1.2			
----- number..	1 065 744	1.1			
Milk cows ----- farms ..	5 878	1.3			
----- number..	258 925	1.0			

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 ..	77 124	1.1	Total farm production expenses ----- farms ..	77 122	1.1
Land in farms ----- acres ..	29 902 195	.9	----- \$1,000 ..	7 621 529	.7
Average size of farm ----- acres ..	388	1.4	Average per farm ----- dollars ..	98 824	1.3
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
Total sales (see text) ----- farms ..	77 124	1.1	All farms ----- number ..	77 122	1.1
----- \$1,000 ..	10 023 073	.6	----- \$1,000 ..	2 238 129	1.0
Average per farm ----- dollars ..	129 960	1.3	Average per farm ----- dollars ..	29 021	1.5
Farms by value of sales:			Farms with net gains ² ----- number ..	60 315	1.2
\$10,000 to \$19,999 ----- farms ..	9 888	1.3	----- \$1,000 ..	2 465 172	.9
----- \$1,000 ..	145 328	1.3	Average net gain ----- dollars ..	40 872	1.5
\$20,000 to \$24,999 ----- farms ..	3 932	1.4	Farms with net losses ----- number ..	16 807	2.0
----- \$1,000 ..	87 705	1.4	----- \$1,000 ..	227 043	2.1
\$25,000 to \$39,999 ----- farms ..	9 750	1.4	Average net loss ----- dollars ..	13 509	2.9
----- \$1,000 ..	312 715	1.4	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
\$40,000 to \$49,999 ----- farms ..	5 102	1.5	Government payments ----- farms ..	55 191	1.1
----- \$1,000 ..	227 831	1.5	----- \$1,000 ..	445 575	.8
\$50,000 to \$99,999 ----- farms ..	17 570	1.4	Other farm-related income ¹ ----- farms ..	29 722	1.5
----- \$1,000 ..	1 272 811	1.4	----- \$1,000 ..	175 079	2.6
\$100,000 to \$249,999 ----- farms ..	21 903	1.1	Customwork and other agricultural services ----- farms ..	12 220	2.1
----- \$1,000 ..	3 443 180	1.1	----- \$1,000 ..	83 279	3.6
\$250,000 to \$499,999 ----- farms ..	6 692	1.1	Gross cash rent or share payments ----- farms ..	7 012	2.9
----- \$1,000 ..	2 257 459	1.1	----- \$1,000 ..	68 960	4.4
\$500,000 or more ----- farms ..	2 287	1.1	Forest products and Christmas trees ----- farms ..	430	10.8
----- \$1,000 ..	2 276 044	1.1	----- \$1,000 ..	2 195	12.5
Sales by commodity or commodity group:			Other farm-related income sources ----- farms ..	17 570	1.8
Crops, including nursery and greenhouse crops ----- farms ..	66 082	1.1	----- \$1,000 ..	20 644	3.0
----- \$1,000 ..	4 608 067	.8	COMMODITY CREDIT CORPORATION LOANS		
Grains ----- farms ..	64 559	1.1	Total ----- farms ..	17 439	1.0
----- \$1,000 ..	4 464 323	.8	----- \$1,000 ..	573 654	.7
Corn for grain ----- farms ..	59 020	1.1			
----- \$1,000 ..	2 671 907	.8			
Wheat ----- farms ..	862	1.5			
----- \$1,000 ..	3 253	1.4			
Soybeans ----- farms ..	56 610	1.1			
----- \$1,000 ..	1 771 261	.8			
Sorghum for grain ----- farms ..	54	3.8			
----- \$1,000 ..	419	5.1			
Barley ----- farms ..	76	3.1			
----- \$1,000 ..	133	3.3			
Oats ----- farms ..	7 995	1.2			
----- \$1,000 ..	13 022	1.1			
Other grains ----- farms ..	366	1.6			
----- \$1,000 ..	4 327	1.8			
Cotton and cottonseed ----- farms ..	—	—			
----- \$1,000 ..	—	—			
Tobacco ----- farms ..	—	—			
----- \$1,000 ..	—	—			
Hay, silage, and field seeds ----- farms ..	13 293	1.2			
----- \$1,000 ..	72 823	1.1			
Vegetables, sweet corn, and melons ----- farms ..	583	1.4			
----- \$1,000 ..	8 873	1.4			
Fruits, nuts, and berries ----- farms ..	165	2.5			
----- \$1,000 ..	3 206	2.9			
Nursery and greenhouse crops ----- farms ..	368	1.9			
----- \$1,000 ..	57 360	.6			
Other crops ----- farms ..	80	3.3			
----- \$1,000 ..	1 482	2.0			
Livestock, poultry, and their products ----- farms ..	53 372	1.1			
----- \$1,000 ..	5 415 006	.5			
Poultry and poultry products ----- farms ..	1 499	1.2			
----- \$1,000 ..	243 768	.2			
Dairy products ----- farms ..	5 480	1.3			
----- \$1,000 ..	421 310	1.0			
Cattle and calves ----- farms ..	36 841	1.2			
----- \$1,000 ..	2 207 758	.5			
Hogs and pigs ----- farms ..	31 589	1.0			
----- \$1,000 ..	2 493 020	.6			
Sheep, lambs, and wool ----- farms ..	4 830	1.3			
----- \$1,000 ..	35 208	.8			
Other livestock and livestock products (see text) ----- farms ..	1 570	1.4			
----- \$1,000 ..	13 942	1.9			
Value of agricultural products sold directly to individuals for human consumption (see text) ----- farms ..	1 505	1.3			
----- \$1,000 ..	4 496	1.5			

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 ..	72 819	1.1	Individual or family (sole proprietorship) ----- farms ..	63 512	1.2
Harvested cropland ----- acres..	26 335 449	.8	Partnership ----- farms ..	23 061 927	1.0
Harvested cropland ----- farms ..	71 371	1.1	Partnership ----- acres..	8 646	1.2
Harvested cropland ----- acres..	22 521 704	.8	Partnership ----- farms ..	3 634 158	.8
Cropland:			Corporation:		
Pasture or grazing only ----- farms ..	27 178	1.2	Family held ----- farms ..	4 345	.8
Pasture or grazing only ----- acres..	1 963 422	1.1	Family held ----- acres..	2 971 767	.5
Total woodland ----- farms ..	17 112	1.2	More than 10 stockholders ----- farms ..	86	3.1
Total woodland ----- acres..	1 027 758	1.1	10 or less stockholders ----- farms ..	4 259	.8
Pastureland and rangeland other than cropland and woodland pastured ----- farms ..	15 491	1.2	Other than family held ----- farms ..	305	1.5
Pastureland and rangeland other than cropland and woodland pastured ----- acres..	1 249 944	1.0	Other than family held ----- acres..	124 440	1.2
Land in house lots, ponds, roads, wasteland, etc. ----- farms ..	54 647	1.1	More than 10 stockholders ----- farms ..	31	3.7
Land in house lots, ponds, roads, wasteland, etc. ----- acres..	1 289 044	.9	10 or less stockholders ----- farms ..	274	1.6
Irrigated land ----- farms ..	859	1.2	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	316	2.0
Irrigated land ----- acres..	114 653	.9	Other—cooperative, estate or trust, institutional, etc. ----- acres..	109 903	1.7
Harvested cropland irrigated ----- farms ..	845	1.2			
Harvested cropland irrigated ----- acres..	114 001	.9	HIRED FARM LABOR		
Pasture and other land irrigated ----- farms ..	30	4.4	Hired workers by days worked:		
Pasture and other land irrigated ----- acres..	652	2.7	150 days or more ----- farms ..	12 648	39.5
			150 days or more ----- workers..	20 601	29.3
Land under federal acreage reduction programs:			Less than 150 days ----- farms ..	29 660	50.9
Diverted under annual commodity programs ----- farms ..	47 690	1.1	Less than 150 days ----- workers..	79 190	46.3
Diverted under annual commodity programs ----- acres..	622 591	.8			
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	13 352	1.1	INJURIES AND DEATHS		
Conservation Reserve or Wetlands Reserve Programs ----- acres..	950 253	1.0	Farm-related injuries:		
			Operator and family members ----- farms ..	1 091	1.3
VALUE OF LAND AND BUILDINGS ¹			Operator and family members ----- number..	1 237	1.3
Estimated market value of land and buildings ----- farms ..	77 122	1.1	Hired workers ----- farms ..	397	.9
Estimated market value of land and buildings ----- \$1,000..	36 344 501	.9	Hired workers ----- number..	548	.7
Average per farm ----- dollars	471 260	1.5	Farm-related deaths:		
Average per acre ----- dollars	1 212	1.3	Operator and family members ----- farms ..	32	4.9
			Operator and family members ----- (D)	(D)	(D)
VALUE OF MACHINERY AND EQUIPMENT ¹			Hired workers ----- farms ..	4	—
Estimated market value of all machinery and equipment ----- farms ..	77 103	1.1	Hired workers ----- number..	(D)	(D)
Estimated market value of all machinery and equipment ----- \$1,000..	6 259 912	1.0			
Average per farm ----- dollars	81 189	1.5	FARMS BY SIZE		
			1 to 9 acres -----	3 560	1.3
AGRICULTURAL CHEMICALS¹			10 to 49 acres -----	2 867	1.3
Commercial fertilizer ----- farms ..	66 970	1.2	50 to 69 acres -----	1 331	1.5
Commercial fertilizer ----- acres on which used ..	14 607 592	.9	70 to 99 acres -----	4 081	1.3
			100 to 139 acres -----	5 070	1.4
TENURE OF OPERATOR			140 to 179 acres -----	7 668	1.4
All operators ----- farms ..	77 124	1.1	180 to 219 acres -----	5 099	1.4
All operators ----- acres..	29 902 195	.9	220 to 259 acres -----	5 654	1.4
Full owners ----- farms ..	27 907	1.2	260 to 499 acres -----	21 402	1.3
Full owners ----- acres..	6 324 511	1.1	500 to 999 acres -----	15 679	1.0
Part owners ----- farms ..	32 859	1.0	1,000 to 1,999 acres -----	4 222	—
Part owners ----- acres..	18 020 871	.7	2,000 acres or more -----	491	—
Tenants ----- farms ..	16 358	1.3	FARMS BY STANDARD INDUSTRIAL CLASSIFICATION		
Tenants ----- acres..	5 556 813	1.1	Cash grains (011) -----	41 322	1.2
			Field crops, except cash grains (013) -----	483	2.0
OWNED AND RENTED LAND			Vegetables and melons (016) -----	91	3.3
Land owned ----- farms ..	61 633	1.1	Fruits and tree nuts (017) -----	48	4.1
Land owned ----- acres..	15 086 724	1.0	Horticultural specialties (018) -----	279	2.1
Owned land in farms ----- farms ..	60 766	1.1	General farms, primarily crop (019) -----	609	1.8
Owned land in farms ----- acres..	13 521 041	.9	Livestock, except dairy, poultry, and animal specialties (021) -----	29 465	1.1
Land rented or leased from others ----- farms ..	49 411	1.1	Dairy farms (024) -----	3 490	1.3
Land rented or leased from others ----- acres..	16 523 482	.8	Poultry and eggs (025) -----	336	1.1
Landlords ----- farms ..	116 735	.9	Animal specialties (027) -----	198	2.5
Rented or leased land in farms ----- farms ..	49 218	1.1	General farms, primarily livestock and animal specialties (029) -----	803	1.5
Rented or leased land in farms ----- acres..	16 381 154	.8			
Land rented or leased to others ----- farms ..	9 959	1.2	LIVESTOCK		
Land rented or leased to others ----- acres..	1 708 011	1.2	Cattle and calves inventory ----- farms ..	36 153	1.2
			Cattle and calves inventory ----- number..	3 817 365	.8
OPERATOR CHARACTERISTICS			Beef cows ----- farms ..	24 181	1.2
Operators by place of residence:			Beef cows ----- number..	992 696	1.1
On farm operated -----	58 689	1.1	Milk cows ----- farms ..	5 629	1.3
Not on farm operated -----	14 494	1.3	Milk cows ----- number..	258 252	1.0
Not reported -----	3 941	1.1			
Operators by principal occupation:			Cattle and calves sold ----- farms ..	36 841	1.2
Farming -----	60 793	1.1	Cattle and calves sold ----- number..	3 161 256	.5
Other -----	16 331	1.3	Hogs and pigs inventory ----- farms ..	2 207 758	.5
			Hogs and pigs inventory ----- number..	29 642	1.0
Operators by days worked off farm:			Hogs and pigs sold ----- farms ..	14 050 208	.6
Any -----	29 553	1.3	Hogs and pigs sold ----- number..	31 589	1.0
200 days or more -----	15 231	1.3	Hogs and pigs sold ----- farms ..	26 677 632	.6
			Hogs and pigs sold ----- number..	2 493 020	.6
Operators by sex:			Sheep and lambs of all ages inventory ----- farms ..	4 573	1.3
Male -----	74 955	1.1	Sheep and lambs of all ages inventory ----- number..	332 212	1.0
Female -----	2 169	1.4	Sheep and lambs sold ----- farms ..	4 768	1.3
			Sheep and lambs sold ----- number..	527 476	.9
Average age of operator ----- years ..	49.8	1.6	Horses and ponies inventory ----- farms ..	5 493	1.3
			Horses and ponies inventory ----- number..	26 951	1.3
			Horses and ponies sold ----- farms ..	1 144	1.4
			Horses and ponies sold ----- number..	6 626	2.7

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 --	1 663	1.4	Oats for grain ----- farms --	16 995	1.1
-----number--	12 519 675	.2	-----acres--	358 543	1.1
Hens and pullets of laying age -----farms --	1 638	1.4	-----bushels--	22 788 605	1.0
-----number--	11 130 776	.2	Soybeans for beans ----- farms --	56 657	1.1
Broilers and other meat-type chickens sold -----farms --	440	1.7	-----acres--	8 182 711	.8
-----number--	9 150 430	.3	-----bushels--	350 513 154	.8
CROPS HARVESTED			Irish potatoes ----- farms --	96	3.2
Corn for grain or seed -----farms --	67 125	1.1	-----acres--	1 630	1.6
-----acres--	12 409 950	.8	-----cwt--	323 732	1.9
-----bushels--	1 743 398 211	.8	Hay—alfalfa, other tame, small grain, wild, grass		
Corn for silage or green chop -----farms --	9 384	1.0	silage, green chop, etc. (see text) -----farms --	37 408	1.2
-----acres--	258 408	.8	-----acres--	1 628 082	1.1
-----tons, green--	4 065 550	.7	-----tons, dry--	4 839 671	1.1
Wheat for grain -----farms --	906	1.4	Alfalfa hay ----- farms --	34 198	1.2
-----acres--	29 329	1.4	-----acres--	1 270 163	1.1
-----bushels--	1 158 460	1.4	-----tons, dry--	4 103 253	1.1
			Vegetables harvested for sale (see text) -----farms --	583	1.4
			-----acres--	14 061	1.6
			Land in orchards ----- farms --	195	2.4
			-----acres--	1 834	3.0

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..	-8.2	1.4	-6.7	1.5
Land in farms..... acres..	-9	1.2	-8	1.2
Average size of farm..... acres..	8.0	2.1	6.3	2.2
Estimated market value of land and buildings ¹ :				
Average per farm.....dollars..	39.0	2.8	37.7	2.9
Average per acre.....dollars..	28.0	2.4	28.7	2.4
Estimated market value of all machinery and equipment ¹ :				
Average per farm.....dollars..	30.5	2.7	27.9	2.8
Farms by size:				
1 to 9 acres.....	-10.6	1.6	-2.3	2.2
10 to 49 acres.....	-5.8	1.7	17.1	2.1
50 to 179 acres.....	-11.0	1.6	-6.9	1.8
180 to 499 acres.....	-13.0	1.6	-14.3	1.6
500 to 999 acres.....	-3	1.3	-7	1.3
1,000 to 1,999 acres.....	24.7	(L)	24.4	(L)
2,000 acres or more.....	52.3	-	53.0	-
Total cropland.....farms..	-8.8	1.4	-7.4	1.5
Harvested cropland.....acres..	-3	1.2	-	1.2
.....farms..	-9.5	1.4	-7.8	1.5
.....acres..	11.4	1.3	12.4	1.3
Irrigated land.....farms..	24.9	2.1	20.8	2.1
.....acres..	25.5	1.8	25.7	1.9
Market value of agricultural products sold.....\$1,000..	13.1	1.0	13.4	1.0
Average per farm.....dollars..	23.3	2.2	21.5	2.3
Crops, including nursery and greenhouse crops.....\$1,000..	26.8	1.4	27.4	1.4
Livestock, poultry, and their products.....\$1,000..	3.6	.8	3.7	.8
Farms by value of sales:				
Less than \$2,500.....	-13.2	1.4	(X)	(X)
\$2,500 to \$4,999.....	-13.6	1.7	(X)	(X)
\$5,000 to \$9,999.....	-14.8	1.5	(X)	(X)
\$10,000 to \$24,999.....	-20.7	1.5	-20.7	1.5
\$25,000 to \$49,999.....	-16.3	1.7	-16.3	1.7
\$50,000 to \$99,999.....	-14.9	1.7	-14.9	1.7
\$100,000 to \$249,999.....	8.4	1.6	8.4	1.6
\$250,000 to \$499,999.....	35.0	(L)	35.0	(L)
\$500,000 or more.....	40.3	-	40.3	-
Total farm production expenses ¹\$1,000..	16.5	1.5	17.0	1.6
Average per farm.....dollars..	26.9	2.3	25.3	2.4
Net cash return from agricultural sales for the farm unit (see text) ¹farms..	-8.2	1.4	-6.7	1.5
.....\$1,000..	2.2	1.4	2.3	1.4
Average per farm.....dollars..	11.3	2.3	9.6	2.3
Operators by principal occupation:				
Farming.....	-11.2	1.4	-10.3	1.4
Other.....	-8	1.7	9.7	2.2
Operators by days worked off farm:				
Any.....	-7.7	4.7	-4.4	4.9
200 days or more.....	-1.4	.5	8.7	5.6
Livestock and poultry:				
Cattle and calves inventory.....farms..	-11.8	1.4	-11.3	1.4
.....number..	-7.9	1.0	-7.6	1.0
Beef cows.....farms..	-7.1	1.5	-6.4	1.6
.....number..	-5.2	1.4	-4.9	1.4
Milk cows.....farms..	-24.1	1.3	-22.3	1.4
.....number..	-12.2	1.3	-11.9	1.3
Cattle and calves sold.....farms..	-13.3	1.3	-12.6	1.4
.....number..	-8.9	.7	-8.7	.7
Hogs and pigs inventory.....farms..	-13.3	1.3	-13.2	1.3
.....number..	9.0	1.0	9.0	1.0
Hogs and pigs sold.....farms..	-11.9	1.3	-12.0	1.3
.....number..	14.2	1.0	14.2	1.0
Sheep and lambs inventory.....farms..	-21.7	1.2	-24.4	1.3
.....number..	-10.2	1.3	-11.8	1.3
Chickens 3 months old or older inventory.....farms..	-46.2	.9	-49.6	1.0
.....number..	31.1	.7	31.6	.7
Broilers and other meat-type chickens sold.....farms..	-38.5	1.3	-42.7	1.4
.....number..	1 281.3	(H)	1 471.8	(H)
Selected crops harvested:				
Corn for grain or seed.....farms..	-12.7	1.4	-9.6	1.4
.....acres..	23.3	1.4	24.4	1.4
.....bushels..	37.6	1.5	38.6	1.5
Corn for silage or green chop.....farms..	20.7	1.7	21.2	1.7
.....acres..	27.1	1.3	27.4	1.3
.....tons, green..	26.0	1.3	26.4	1.3
Wheat for grain.....farms..	-27.9	1.4	-25.2	1.5
.....acres..	-3.1	1.9	2.3	2.0
.....bushels..	3	1.9	4.0	2.0
Oats for grain.....farms..	-29.7	1.1	-28.4	1.1
.....acres..	-32.4	1.0	-31.8	1.0
.....bushels..	-24.8	1.0	-24.3	1.1
Soybeans for beans.....farms..	-12.2	1.4	-9.4	1.4
.....acres..	4.3	1.2	5.0	1.3
.....bushels..	8.1	1.3	8.7	1.3
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms..	-7.3	1.4	-6.9	1.5
.....acres..	-10.5	1.3	-11.0	1.3
.....tons, dry..	-9.0	1.3	-9.2	1.3

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)
Iowa -----	96 543	1.1	31 346 565	.9	325	1.4	394 267	1.4	6 647 461	1.0
Adair -----	891	1.2	328 970	1.1	369	1.6	286 257	3.8	54 061	4.7
Adams -----	643	1.3	239 800	1.3	373	1.8	236 663	5.0	30 986	10.2
Allamakee -----	1 000	1.3	321 728	1.2	322	1.7	260 640	4.4	64 197	4.7
Appanoose -----	827	2.6	238 609	3.0	289	4.0	171 088	7.9	31 874	9.9
Audubon -----	740	1.1	268 506	1.0	363	1.5	428 944	3.4	59 690	4.6
Benton -----	1 325	1.0	427 215	.9	322	1.3	448 987	2.6	89 528	4.3
Black Hawk -----	1 111	.7	299 502	.7	270	1.0	415 869	3.6	79 225	4.3
Boone -----	923	.8	330 080	.8	358	1.1	572 822	3.3	63 674	3.6
Bremer -----	1 058	1.1	236 668	1.1	224	1.6	334 099	3.5	75 226	4.3
Buchanan -----	1 193	1.0	333 115	.9	279	1.4	369 146	5.4	93 917	4.7
Buena Vista -----	972	.8	341 923	.8	352	1.1	549 084	3.8	85 794	4.2
Butler -----	1 146	.7	315 448	.7	275	1.0	344 288	3.1	80 339	3.6
Calhoun -----	899	.7	345 567	.9	384	1.4	639 883	3.4	83 878	5.9
Carroll -----	1 197	1.0	359 755	.9	301	1.3	438 211	3.0	80 066	4.6
Cass -----	905	1.1	347 353	1.0	384	1.4	383 268	3.5	59 587	5.0
Cedar -----	1 099	.9	338 801	1.0	308	1.3	412 745	3.7	88 444	5.5
Cerro Gordo -----	821	.8	308 497	.9	376	1.2	538 144	2.9	71 011	4.5
Cherokee -----	979	1.0	336 254	.9	343	1.4	476 389	3.8	75 107	4.9
Chickasaw -----	1 007	1.2	274 905	1.1	273	1.6	315 294	5.2	77 073	5.2
Clarke -----	680	1.3	236 409	1.1	348	1.7	202 554	7.4	22 786	5.7
Clay -----	770	.9	314 812	.9	409	1.2	596 424	4.7	66 258	5.7
Clayton -----	1 617	.8	456 954	.8	283	1.1	303 364	4.9	116 516	4.2
Clinton -----	1 362	1.1	368 114	1.0	270	1.5	340 328	3.4	86 469	3.9
Crawford -----	1 260	1.3	415 104	1.1	329	1.7	351 086	4.0	78 104	4.6
Dallas -----	944	.9	312 173	.9	331	1.3	517 569	4.1	66 943	5.5
Davis -----	892	2.7	275 319	2.6	309	3.7	170 564	6.9	34 384	8.8
Decatur -----	648	1.1	261 494	1.0	404	1.5	192 742	4.5	23 482	8.6
Delaware -----	1 367	1.0	336 131	.9	246	1.4	342 258	4.2	109 843	3.4
Des Moines -----	681	1.0	192 467	1.0	283	1.4	401 573	4.8	47 374	8.4
Dickinson -----	554	.9	202 249	1.0	365	1.4	485 385	4.7	44 830	7.7
Dubuque -----	1 653	1.2	343 870	1.1	208	1.7	269 337	3.2	119 790	4.7
Emmet -----	557	.9	224 811	.9	404	1.3	586 900	4.9	47 464	6.1
Fayette -----	1 416	1.0	401 625	1.0	284	1.4	314 061	3.2	101 738	4.5
Floyd -----	882	1.0	287 586	1.0	326	1.5	390 264	4.7	61 001	4.3
Franklin -----	929	1.0	343 367	1.0	370	1.4	501 782	4.6	72 409	4.2
Fremont -----	596	.9	302 352	.8	507	1.2	450 547	3.2	58 675	7.7
Greene -----	851	.8	366 927	.8	431	1.1	585 344	4.2	73 124	4.3
Grundy -----	853	.8	317 205	.7	372	1.1	619 361	3.0	75 991	4.3
Guthrie -----	946	1.2	328 885	1.1	348	1.6	377 710	4.9	53 748	4.2
Hamilton -----	873	.7	332 377	.7	381	1.0	659 810	3.0	86 924	5.4
Hancock -----	939	.9	329 151	.9	351	1.2	518 542	4.4	83 036	6.0
Hardin -----	986	.8	332 358	.7	337	1.1	470 566	3.3	82 128	4.4
Harrison -----	919	1.2	399 155	1.0	434	1.6	414 701	3.6	59 214	4.0
Henry -----	795	1.1	225 835	1.1	284	1.6	376 862	4.0	47 338	5.3
Howard -----	881	1.2	260 781	1.1	296	1.6	303 698	4.0	63 513	5.5
Humboldt -----	677	.7	280 797	.8	415	1.1	632 269	3.4	75 877	5.6
Ida -----	729	1.4	272 831	1.1	374	1.8	410 880	4.3	47 746	5.1
Iowa -----	977	1.0	321 285	.9	329	1.3	316 867	3.4	65 519	6.8
Jackson -----	1 326	1.4	346 569	1.3	261	1.9	239 967	4.3	70 063	4.3
Jasper -----	1 309	1.0	431 185	.9	329	1.3	375 620	2.8	95 361	5.3
Jefferson -----	740	1.3	227 073	1.3	307	1.8	281 030	5.8	42 395	7.9
Johnson -----	1 242	1.0	384 537	1.0	229	1.4	357 551	4.3	68 430	5.0
Jones -----	1 112	1.0	321 950	1.0	290	1.4	347 102	3.3	79 049	4.4
Keokuk -----	952	1.1	322 401	1.1	339	1.5	324 886	5.0	64 371	5.7
Kossuth -----	1 592	1.0	615 034	.9	386	1.3	615 677	2.7	151 577	4.0
Lee -----	872	1.1	266 083	1.1	305	1.5	310 152	4.9	52 104	7.3
Linn -----	1 529	.9	349 252	.8	228	1.2	356 809	3.5	82 545	3.3
Louisa -----	554	.9	191 291	1.0	345	1.4	410 769	4.4	35 165	5.8
Lucas -----	630	2.3	219 370	2.3	348	3.2	195 324	6.1	23 653	9.6
Lyon -----	1 194	1.5	347 599	1.4	291	2.0	387 429	4.3	72 176	4.6
Madison -----	1 026	1.1	305 685	1.0	298	1.5	258 508	3.9	53 909	8.9
Mahaska -----	1 075	1.0	314 887	1.0	293	1.4	385 300	2.9	83 645	5.2
Marion -----	996	1.2	268 520	1.3	270	1.8	271 520	5.3	54 685	8.4
Marshall -----	949	.7	312 858	.7	330	1.1	433 790	3.3	67 901	4.8
Mills -----	563	1.0	237 862	1.0	422	1.4	491 858	4.0	42 171	5.4
Mitchell -----	825	1.0	263 047	.9	319	1.3	404 547	3.9	60 841	3.9
Monona -----	822	1.2	392 835	.9	478	1.5	430 858	3.8	64 622	6.0
Monroe -----	682	1.3	223 638	1.3	328	1.9	178 074	4.7	26 086	7.3
Montgomery -----	617	1.1	240 100	1.1	389	1.6	349 347	4.6	33 286	5.4
Muscatine -----	803	.9	219 832	1.0	274	1.4	371 565	4.3	51 208	5.4
O'Brien -----	1 147	1.1	362 109	1.0	316	1.5	504 319	3.5	80 355	4.6
Osceola -----	737	1.4	260 780	1.3	354	1.9	543 750	4.8	68 963	5.9
Page -----	916	1.1	318 778	1.1	348	1.5	285 071	3.4	52 639	6.4
Palo Alto -----	841	.9	338 730	.9	403	1.3	548 521	3.8	65 031	4.4
Plymouth -----	1 615	1.2	518 247	1.0	321	1.6	416 492	2.7	99 318	2.8
Pocahontas -----	919	.9	359 442	.9	391	1.3	595 479	3.4	86 828	4.9
Polk -----	832	1.1	229 818	1.0	276	1.5	383 678	5.2	61 184	4.4
Pottawattamie -----	1 441	1.1	542 855	1.0	377	1.5	445 274	3.6	101 944	3.7
Poweshiek -----	933	1.2	340 982	1.1	365	1.7	371 993	4.7	66 279	5.8
Ringgold -----	676	1.3	293 266	1.1	434	1.7	212 858	4.9	29 049	6.4
Sac -----	967	1.1	364 172	.9	377	1.4	550 472	3.9	81 540	5.2
Scott -----	913	1.1	233 217	1.0	255	1.5	508 395	4.8	69 330	4.4
Shelby -----	1 088	1.2	353 570	1.1	325	1.6	387 197	5.5	75 488	4.6
Sioux -----	1 998	1.2	495 769	1.0	248	1.5	417 799	2.6	133 280	4.2

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	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)
Story	990	.8	331 211	.7	335	1.1	515 256	3.8	71 877	5.7
Tama	1 294	1.0	401 858	.9	311	1.4	424 547	4.5	83 440	4.4
Taylor	741	1.4	278 922	1.2	376	1.8	246 073	4.7	33 243	7.0
Union	671	1.2	236 265	1.2	352	1.7	254 377	6.4	35 233	9.3
Van Buren	752	2.6	241 422	2.6	321	3.6	217 531	7.4	27 083	6.3
Wapello	757	1.3	195 021	1.4	258	1.9	245 474	6.5	32 429	8.0
Warren	1 216	1.1	302 487	1.1	249	1.6	266 112	5.7	50 129	4.1
Washington	1 078	1.1	309 508	1.0	287	1.5	370 355	4.3	71 136	4.9
Wayne	734	1.2	282 723	1.1	385	1.6	200 662	4.2	32 357	6.1
Webster	1 059	.9	408 462	.8	386	1.2	598 749	3.5	92 717	4.8
Winnebago	645	1.0	231 977	1.0	360	1.4	469 698	4.0	49 998	5.5
Winneshiek	1 495	1.5	357 684	1.4	239	2.0	209 058	3.9	95 740	4.6
Woodbury	1 254	1.2	442 247	1.0	353	1.5	374 368	4.6	74 027	3.9
Worth	642	.8	224 632	.8	350	1.1	414 728	3.1	53 232	5.1
Wright	812	.7	353 683	.6	436	.9	703 215	3.7	82 447	5.2
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)
Iowa	68 967	1.5	10 099 786	.6	104 614	1.3	96 532	1.1	7 744 947	.7
Adair	60 607	4.8	75 248	1.0	84 453	1.5	892	1.3	58 027	2.0
Adams	48 951	10.4	46 160	1.2	71 788	1.8	643	1.4	31 960	4.5
Allamakee	64 262	4.9	89 509	1.1	89 509	1.7	999	1.4	70 856	2.5
Appanoose	38 542	10.3	27 455	2.8	33 198	3.8	827	2.6	22 603	5.5
Audubon	80 662	4.7	93 751	.7	126 691	1.3	740	1.3	75 554	1.6
Benton	67 568	4.4	151 713	.7	114 500	1.2	1 325	1.0	122 153	1.6
Black Hawk	71 374	4.4	112 562	.5	101 316	.9	1 110	.8	90 781	1.8
Boone	69 060	3.7	102 944	.6	111 532	1.0	922	.9	70 276	2.4
Bremer	71 102	4.4	89 215	1.0	84 325	1.5	1 058	1.2	69 576	2.1
Buchanan	78 657	4.8	116 558	.8	97 701	1.3	1 194	1.0	93 014	1.9
Buena Vista	88 630	4.4	157 282	.5	161 812	.9	973	.9	115 294	1.4
Butler	70 103	3.7	114 274	.6	99 715	1.0	1 146	.8	88 432	1.7
Calhoun	93 405	6.0	112 277	.8	124 891	1.3	899	1.2	77 260	2.0
Carroll	66 945	4.8	196 002	.5	163 745	1.1	1 196	1.0	147 876	1.1
Cass	65 770	5.2	96 388	.7	106 506	1.3	906	1.2	73 127	2.0
Cedar	80 404	5.6	117 793	.8	107 182	1.2	1 100	1.0	98 022	2.0
Cerro Gordo	86 493	4.6	91 286	.8	111 189	1.1	821	1.0	73 539	2.2
Cherokee	76 796	5.0	127 906	.7	130 650	1.2	978	1.1	93 678	2.0
Chickasaw	76 537	5.4	100 101	.8	99 405	1.5	1 007	1.4	81 274	2.1
Clarke	33 509	5.9	27 874	1.2	40 991	1.7	680	1.3	22 362	4.7
Clay	86 050	5.8	105 076	.6	136 462	1.1	770	1.1	77 073	2.2
Clayton	72 101	4.3	155 641	.7	96 253	1.1	1 616	.9	116 768	1.8
Clinton	63 487	4.1	135 458	.8	99 455	1.4	1 362	1.1	112 873	2.0
Crawford	62 383	4.8	124 295	.9	98 647	1.6	1 259	1.3	99 658	2.3
Dallas	71 064	5.6	87 356	.7	92 538	1.2	942	1.0	58 265	2.1
Davis	38 896	9.3	40 022	2.4	44 868	3.6	892	3.0	30 796	4.4
Decatur	36 181	8.7	41 090	.8	63 410	1.4	649	1.3	33 070	2.9
Delaware	80 412	3.5	178 922	.7	130 886	1.3	1 366	1.1	141 535	1.5
Des Moines	69 668	8.5	51 482	.9	75 598	1.4	680	1.2	36 826	3.0
Dickinson	80 921	7.8	71 649	.7	129 331	1.1	554	1.1	55 928	2.3
Dubuque	72 512	4.9	184 886	.9	111 849	1.5	1 652	1.3	140 395	1.9
Emmet	85 214	6.2	64 882	.8	116 485	1.2	557	1.1	45 528	4.2
Fayette	71 849	4.6	151 654	.8	107 100	1.3	1 416	1.1	117 906	1.8
Floyd	69 162	4.5	92 274	.8	104 619	1.3	882	1.1	69 776	2.3
Franklin	77 943	4.4	118 120	.8	127 148	1.3	929	1.1	93 923	2.0
Fremont	98 283	7.8	82 603	.6	138 596	1.1	597	1.1	55 894	2.8
Greene	85 927	4.4	104 736	.7	123 074	1.1	851	.9	68 540	2.4
Grundy	88 982	4.4	128 227	.5	150 325	1.0	854	.9	100 818	1.5
Guthrie	56 876	4.4	84 268	.8	89 078	1.4	946	1.3	63 319	1.8
Hamilton	99 342	5.5	142 414	.5	163 131	.9	875	.9	108 917	1.8
Hancock	88 430	6.0	108 638	.7	115 695	1.1	939	.9	85 195	2.2
Hardin	83 294	4.4	143 724	.5	145 764	.9	986	.9	110 546	1.4
Harrison	64 433	4.2	100 625	.9	109 494	1.5	919	1.3	71 287	2.0
Henry	60 150	5.5	65 017	1.0	81 783	1.5	795	1.2	47 914	2.1
Howard	72 010	5.7	73 822	1.0	83 794	1.6	882	1.4	62 502	2.5
Humboldt	112 078	5.6	91 258	.6	134 798	1.0	677	.9	61 465	2.6
Ida	65 585	5.3	88 403	.9	121 266	1.6	728	1.7	66 337	2.5
Iowa	66 992	6.9	95 539	.7	97 788	1.2	978	1.1	77 227	2.4
Jackson	53 280	4.6	103 597	1.1	78 127	1.7	1 326	1.4	95 024	2.1
Jasper	72 851	5.4	135 428	.7	103 459	1.2	1 309	1.0	98 748	1.9
Jefferson	57 995	8.1	52 919	1.0	71 511	1.7	740	1.4	37 803	2.9
Johnson	55 141	5.1	99 531	.9	80 138	1.3	1 241	1.1	81 739	2.1
Jones	71 087	4.5	128 284	.7	115 363	1.2	1 112	1.1	104 164	1.7
Keokuk	67 617	5.8	83 181	.9	87 375	1.4	952	1.2	65 784	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	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)
Kossuth	95 212	4.1	190 116	.7	119 420	1.2	1 592	1.0	148 358	1.9
Lee	60 166	7.4	73 550	.9	84 347	1.4	873	1.2	59 317	2.7
Linn	53 986	3.4	102 380	.7	66 959	1.1	1 529	1.0	82 697	2.2
Louisa	63 475	5.9	46 151	1.0	83 306	1.4	554	1.1	37 360	2.8
Lucas	37 604	9.9	25 372	2.3	40 273	3.2	629	2.4	21 369	4.8
Lyon	60 449	4.9	173 419	.9	145 242	1.7	1 194	1.7	137 665	2.4
Madison	52 542	9.0	69 453	.7	67 693	1.3	1 026	1.2	55 294	2.0
Mahaska	77 809	5.3	115 975	.7	107 884	1.2	1 075	1.1	90 047	1.7
Marion	54 905	8.5	65 241	1.1	65 503	1.7	996	1.4	50 620	4.4
Marshall	71 550	4.9	101 491	.6	106 946	1.0	949	.8	79 825	2.2
Mills	74 771	5.5	64 817	.8	115 128	1.3	564	1.2	48 869	2.8
Mitchell	75 113	4.3	106 680	.7	129 309	1.2	825	1.2	87 406	1.9
Monona	78 616	6.1	99 592	.8	121 159	1.4	822	1.4	68 801	2.1
Monroe	38 194	7.4	29 670	1.3	43 504	1.9	674	1.9	23 838	5.3
Montgomery	54 036	5.5	63 351	.9	102 676	1.4	616	1.2	45 621	2.6
Muscatine	63 771	5.5	65 427	.9	81 478	1.3	803	1.0	51 553	2.4
O'Brien	70 118	4.8	146 180	.8	127 445	1.3	1 146	1.3	110 657	1.9
Osceola	93 573	6.1	94 627	1.0	128 394	1.7	737	1.4	69 305	2.0
Page	57 845	6.5	81 768	.9	89 267	1.4	917	1.1	56 342	2.9
Palo Alto	77 418	4.5	107 772	.8	128 148	1.2	840	1.1	74 959	2.0
Plymouth	61 497	3.1	221 185	.7	136 956	1.4	1 615	1.3	173 882	1.2
Pocahontas	94 481	5.0	110 051	.8	119 751	1.2	919	1.1	76 945	2.0
Polk	74 162	4.6	61 720	.9	74 183	1.4	832	1.2	43 034	3.0
Pottawattamie	70 843	3.9	180 073	.8	124 964	1.4	1 439	1.3	127 086	1.5
Poweshiek	71 039	5.9	86 384	1.0	92 588	1.6	933	1.2	65 011	2.1
Ringgold	43 099	6.5	38 279	1.1	56 625	1.6	675	1.4	30 028	3.7
Sac	84 236	5.3	146 389	.6	151 385	1.2	968	1.2	111 906	1.8
Scott	75 688	4.5	91 084	.8	99 763	1.4	916	1.2	73 702	2.2
Shelby	69 510	4.8	124 076	.9	114 041	1.5	1 086	1.3	95 089	2.0
Sioux	66 707	4.4	422 040	.5	211 231	1.2	1 998	1.2	331 099	1.0
Story	73 419	5.8	106 178	.6	107 250	1.0	989	.9	74 917	2.0
Tama	64 833	4.6	109 630	.8	84 722	1.3	1 293	1.1	92 072	2.5
Taylor	44 802	7.1	46 692	1.1	63 012	1.8	742	1.4	39 778	3.3
Union	52 430	9.4	48 481	1.0	72 251	1.6	672	1.3	38 257	2.6
Van Buren	35 967	6.9	36 654	2.4	48 742	3.5	753	2.8	27 163	4.2
Wapello	42 782	8.1	38 168	1.3	50 420	1.9	758	1.4	27 587	3.6
Warren	41 879	4.4	56 996	1.0	46 871	1.5	1 216	1.1	44 628	2.9
Washington	65 989	5.1	128 948	.7	119 618	1.3	1 078	1.1	98 536	1.6
Wayne	44 630	6.3	33 912	1.1	46 202	1.6	733	1.2	28 007	3.5
Webster	88 218	5.0	126 924	.7	119 853	1.1	1 059	1.0	82 000	2.3
Winnebago	77 637	5.6	60 515	1.0	93 822	1.4	644	1.1	48 704	3.2
Winneshiek	64 040	4.9	125 003	1.3	83 614	1.9	1 495	1.7	95 420	2.4
Woodbury	59 317	4.1	150 949	.6	120 374	1.3	1 255	1.2	127 464	1.5
Worth	82 787	5.2	65 724	.7	102 374	1.1	643	1.0	53 017	1.9
Wright	101 661	5.3	99 379	.6	122 388	.9	811	.9	70 502	2.5

Farm production expenses¹—Con.

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)
Iowa	41 068	1.3	1 490 792	.7	58 661	1.2	1 317 636	.7	78 194	1.1	386 488	.9
Adair	372	9.5	9 361	7.9	637	5.2	8 444	9.6	740	4.1	3 367	5.7
Adams	254	12.4	5 066	5.7	417	6.5	5 194	9.2	480	5.8	1 539	7.0
Allamakee	504	7.5	10 384	7.0	797	3.2	17 152	4.0	774	3.1	2 447	3.9
Appanoose	253	12.7	3 755	20.3	545	6.4	3 117	15.8	435	7.4	1 114	9.7
Audubon	404	7.6	20 573	3.7	539	5.1	11 377	3.9	594	3.4	3 227	3.6
Benton	639	5.9	27 168	2.0	833	4.2	21 212	2.9	1 097	2.7	5 187	3.2
Black Hawk	442	8.1	10 317	4.3	522	6.5	12 912	3.4	928	2.8	5 276	3.6
Boone	305	10.2	11 707	6.2	385	8.8	9 520	6.3	788	2.3	4 508	3.5
Bremer	490	7.2	6 298	5.8	621	5.4	10 503	4.1	881	3.2	4 065	3.1
Buchanan	612	5.7	10 935	6.0	743	4.7	13 208	6.0	1 007	2.7	5 522	3.8
Buena Vista	427	6.8	26 264	2.3	469	6.7	28 064	2.8	903	1.7	4 922	3.8
Butler	555	6.5	12 520	4.1	785	4.3	15 604	2.9	905	2.5	4 840	2.9
Calhoun	345	9.7	13 210	5.0	419	8.2	10 795	5.7	812	3.1	5 128	3.0
Carroll	530	5.7	55 385	1.6	754	4.3	29 571	2.3	1 035	2.2	4 658	3.7
Cass	377	8.6	16 773	2.8	602	5.3	8 811	4.5	802	2.8	3 943	3.4
Cedar	453	8.5	13 531	7.6	669	6.0	15 802	5.0	931	2.5	5 324	3.6
Cerro Gordo	280	10.2	5 268	7.3	384	7.2	8 478	5.2	698	3.2	5 027	3.0
Cherokee	490	7.3	22 122	4.1	653	5.9	14 622	5.7	838	3.1	4 414	3.7
Chickasaw	506	6.7	16 626	3.8	639	4.9	11 995	5.5	776	3.9	4 282	4.8

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)
Clarke	308	9.9	3 554	18.2	511	6.2	3 460	12.4	386	9.1	827	9.7
Clay	345	9.2	13 510	4.5	457	7.2	11 981	4.2	673	3.3	4 093	4.1
Clinton	780	5.6	14 420	5.9	1 251	2.8	28 451	3.0	1 275	2.6	4 639	3.9
Clayton	692	5.6	29 759	3.4	933	4.0	14 301	4.5	1 134	2.4	4 794	3.0
Crawford	553	7.5	22 105	4.8	852	5.0	14 966	6.3	983	3.8	4 746	3.6
Dallas	251	11.8	6 288	5.3	444	7.6	5 245	8.2	725	3.7	3 938	4.1
Davis	365	9.8	3 977	9.1	642	5.4	6 433	8.7	579	6.3	1 183	7.8
Decatur	194	13.2	9 688	8.1	435	6.0	6 993	5.9	356	6.1	855	8.9
Delaware	875	4.5	24 670	4.5	1 110	3.0	37 911	3.6	1 100	3.2	4 862	3.3
Des Moines	136	17.1	2 442	5.5	325	9.6	4 656	10.3	567	3.2	2 581	4.2
Dickinson	189	14.4	16 149	3.7	229	11.0	8 397	4.9	490	2.1	2 875	6.4
Dubuque	882	5.3	29 206	5.1	1 349	2.5	38 891	3.0	1 416	2.4	3 785	3.3
Emmet	160	15.9	8 948	7.8	225	13.0	4 093	8.6	492	3.7	2 879	6.6
Fayette	705	4.9	16 584	5.5	924	3.6	22 067	3.9	1 182	2.7	5 649	2.8
Floyd	359	8.1	10 520	6.7	469	7.2	8 367	7.3	739	2.9	4 518	3.4
Franklin	349	9.9	14 017	6.1	515	7.2	16 212	6.3	766	3.3	5 270	5.8
Fremont	184	14.0	11 995	3.6	333	9.1	5 127	5.7	492	3.7	3 206	4.8
Greene	248	12.1	9 306	6.7	432	7.3	6 453	6.8	742	2.5	4 986	4.7
Grundy	347	8.2	21 282	2.2	472	6.6	14 939	3.3	720	2.9	4 519	2.9
Guthrie	334	10.8	9 015	4.3	579	6.4	11 558	3.2	734	3.7	3 204	4.9
Hamilton	257	10.6	13 030	1.7	399	8.6	27 414	2.3	770	2.8	5 337	3.0
Hancock	410	8.0	12 254	11.9	523	6.7	13 244	7.2	840	2.5	5 239	4.7
Hardin	381	8.2	17 979	3.1	537	6.3	24 775	2.0	844	2.8	4 954	3.0
Harrison	307	10.8	11 541	7.3	428	8.5	5 709	7.2	794	2.8	5 031	3.4
Henry	291	11.3	4 852	6.9	394	8.9	9 405	3.2	613	3.7	2 945	6.6
Howard	345	11.2	6 843	9.9	580	6.3	10 639	6.3	727	4.5	3 900	4.8
Humboldt	210	12.5	9 220	6.0	241	11.1	7 242	8.0	639	1.9	4 338	3.8
Ida	356	8.0	15 722	6.9	482	6.8	8 490	7.0	599	4.9	3 299	3.5
Iowa	448	7.2	15 281	6.4	719	4.2	13 052	6.2	741	3.9	3 767	3.5
Jackson	757	5.8	26 452	5.0	1 064	3.2	19 456	3.8	958	3.8	2 630	4.8
Jasper	588	6.7	17 256	6.0	810	4.8	17 942	4.7	1 061	2.9	5 459	3.5
Jefferson	252	15.6	4 945	11.0	437	9.7	5 919	8.2	572	5.3	2 349	7.4
Johnson	594	6.3	12 254	9.8	872	4.1	19 858	4.0	975	3.0	3 812	4.2
Jones	556	6.6	24 581	3.9	789	4.2	20 542	3.7	911	2.8	4 293	4.0
Keokuk	408	7.2	7 899	7.6	610	5.3	14 610	6.6	754	3.2	3 374	5.5
Kossuth	576	7.6	19 253	4.8	679	6.4	15 286	5.3	1 469	1.6	10 448	3.0
Lee	353	10.3	9 983	10.2	562	6.5	10 244	5.6	678	3.5	2 955	5.8
Linn	562	7.6	10 325	5.6	863	5.3	11 688	6.7	1 175	2.6	4 653	3.8
Louisa	196	12.0	3 044	13.2	281	9.5	4 155	11.7	470	3.5	2 756	5.3
Lucas	259	10.4	2 630	10.2	422	6.5	3 701	9.5	378	6.9	720	6.2
Lyon	675	5.9	47 340	3.8	849	4.5	28 333	5.1	912	3.7	4 536	5.1
Madison	376	9.5	6 955	6.1	679	4.8	12 523	2.7	775	2.3	2 461	3.9
Mahaska	530	6.6	18 651	4.2	678	4.9	19 631	3.0	911	2.7	3 744	3.2
Marion	416	9.3	8 493	7.9	637	5.7	8 247	8.8	803	3.7	2 961	7.7
Marshall	340	9.3	9 598	9.6	484	7.1	9 737	5.3	816	2.7	4 738	3.8
Mills	192	11.2	8 938	6.2	286	8.7	4 305	8.7	489	2.9	3 052	3.7
Mitchell	384	7.7	18 031	4.2	553	4.9	16 699	4.0	701	3.6	4 056	3.7
Monona	297	10.7	14 686	4.9	395	8.2	6 955	7.9	685	3.3	4 502	3.4
Monroe	311	9.8	5 457	12.2	454	5.6	4 166	10.3	369	8.6	734	7.6
Montgomery	251	9.7	8 166	9.2	399	6.1	4 927	7.4	525	3.4	2 318	4.9
Muscatine	281	9.9	5 272	9.5	413	7.7	9 299	6.6	654	3.8	3 005	5.3
O'Brien	618	6.1	21 810	4.8	729	5.1	23 488	7.3	964	3.2	5 068	4.8
Osceola	257	10.4	14 486	4.6	347	9.6	11 317	4.5	651	3.7	3 671	5.4
Page	368	8.9	8 636	9.6	563	5.6	6 653	10.6	786	2.8	3 404	4.5
Palo Alto	377	7.3	14 190	4.8	456	6.4	9 547	4.4	743	2.5	4 427	3.6
Plymouth	871	4.7	54 173	2.0	1 094	3.4	31 380	2.7	1 311	2.6	6 403	2.7
Pocahontas	285	9.7	11 086	4.7	351	9.1	9 392	5.0	858	2.3	5 473	3.8
Polk	257	12.3	3 531	9.2	345	10.0	3 578	9.9	607	4.4	3 410	3.6
Pottawattamie	610	7.2	31 611	2.9	918	4.4	12 633	5.2	1 223	2.4	7 256	3.2
Poweshiek	465	8.3	9 568	5.8	658	5.3	10 711	6.1	729	4.7	3 512	5.0
Ringgold	294	10.7	4 001	12.7	517	5.5	5 233	8.1	465	6.1	1 272	7.1
Sac	416	9.4	27 603	3.1	537	7.1	20 239	5.8	833	3.3	5 012	5.2
Scott	380	8.5	9 406	6.3	489	7.3	10 274	4.1	738	4.0	3 851	4.2
Shelby	494	6.7	18 505	4.2	688	4.4	15 404	3.3	922	2.9	4 989	3.0
Sioux	1 149	3.8	144 653	1.3	1 365	3.1	76 094	1.8	1 605	2.2	6 826	2.3
Story	375	9.4	10 711	15.2	465	7.9	10 185	6.1	851	2.4	4 368	4.1
Tama	593	6.7	10 730	6.3	806	4.6	10 970	4.0	1 008	2.6	5 265	3.4
Taylor	306	9.5	6 392	12.3	446	7.5	5 126	8.1	604	4.6	2 021	5.6
Union	262	13.1	7 039	5.8	404	8.5	8 592	6.0	450	6.1	1 323	6.3
Van Buren	288	11.2	2 829	12.4	497	6.3	4 822	5.7	520	5.8	1 417	9.5
Wapello	267	11.9	4 395	11.5	372	9.5	3 787	9.9	548	4.9	1 439	7.8
Warren	444	9.1	4 848	8.1	741	5.8	6 005	9.4	886	3.0	2 713	4.8
Washington	566	6.3	13 645	6.5	825	3.3	31 002	3.5	847	3.8	3 900	4.8
Wayne	219	11.5	2 912	10.8	467	4.9	3 676	10.5	597	4.0	1 550	4.7
Webster	353	10.0	7 675	14.5	414	9.0	14 422	4.1	916	2.7	5 564	4.6
Winnebago	184	13.6	2 665	13.7	279	9.8	4 251	10.8	575	2.4	3 630	4.7
Winneshiak	758	6.4	14 829	9.8	1 109	3.4	22 713	5.3	1 175	3.1	3 939	4.8
Woodbury	543	7.2	46 474	2.5	732	5.9	16 675	3.2	953	2.6	5 562	4.2
Worth	236	10.0	5 065	5.1	373	7.3	7 944	6.4	517	3.9	3 442	4.1
Wright	180	13.8	5 697	15.5	255	10.9	6 447	10.4	729	2.4	5 220	5.7

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.											
	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)
Iowa	74 421	1.2	578 142	1.0	77 540	1.1	424 136	1.0	92 977	1.1	379 607	.9
Adair	682	4.0	4 781	5.0	775	4.1	4 048	5.4	863	2.3	2 972	5.1
Adams	459	6.1	2 722	11.0	502	5.3	1 749	8.5	579	3.8	2 013	11.6
Allamakee	765	3.4	3 790	5.1	795	3.5	2 020	9.7	960	1.9	3 490	3.7
Appanoose	523	6.3	2 366	11.2	497	7.3	1 029	14.0	765	3.5	1 435	6.4
Audubon	589	3.4	4 925	3.8	579	4.0	3 667	3.8	690	2.6	3 250	2.8
Benton	1 051	2.7	9 073	4.4	1 136	2.7	6 677	3.9	1 311	1.2	4 956	2.9
Black Hawk	902	2.9	7 799	5.0	903	3.1	5 705	5.2	1 103	.9	4 701	3.6
Boone	783	2.3	6 173	4.4	767	2.7	4 631	4.1	901	1.4	3 372	3.5
Bremner	850	3.1	6 356	4.2	889	3.2	4 232	4.1	1 057	1.2	3 832	3.2
Buchanan	959	3.2	8 616	4.8	1 002	3.0	5 948	4.5	1 177	1.4	5 184	2.6
Buena Vista	877	1.6	7 251	3.9	852	2.8	5 535	4.8	942	1.6	4 402	3.3
Butler	854	3.3	6 162	3.7	882	2.7	5 793	3.8	1 131	1.1	4 949	4.1
Calhoun	764	3.7	7 804	4.0	739	3.9	5 552	4.0	855	1.9	3 957	4.4
Carroll	972	2.7	6 925	3.4	1 024	2.3	4 886	3.5	1 140	1.7	4 874	2.9
Cass	721	3.6	5 828	6.9	772	3.4	4 987	5.0	870	1.7	3 675	3.4
Cedar	869	3.1	7 738	5.0	950	3.1	6 380	4.8	1 080	1.3	5 509	3.3
Cerro Gordo	647	3.3	7 259	3.6	701	2.9	5 564	4.0	772	2.2	4 926	2.7
Cherokee	784	3.0	6 145	4.4	840	3.9	4 656	5.1	957	1.8	4 581	4.6
Chickasaw	772	4.0	6 289	4.1	760	4.3	4 630	5.2	935	2.3	4 185	3.7
Clarke	391	9.1	1 383	8.5	373	9.5	1 110	9.6	680	1.3	1 466	5.1
Clay	657	3.6	5 632	3.9	656	3.5	4 463	6.4	760	1.4	3 768	5.4
Clayton	1 190	2.9	7 326	5.9	1 334	2.6	4 405	4.8	1 566	1.4	6 109	3.8
Clinton	1 092	2.8	9 091	4.6	1 174	2.4	5 866	4.3	1 316	1.7	5 144	3.9
Crawford	985	4.0	8 295	4.8	1 004	4.0	5 367	5.7	1 212	1.9	4 331	4.4
Dallas	696	4.2	5 700	4.5	760	3.7	4 653	4.2	935	1.2	3 086	4.4
Davis	585	6.4	2 142	8.4	552	6.4	1 399	9.2	843	3.5	1 690	7.2
Decatur	346	7.2	1 537	8.5	377	6.9	900	8.9	566	2.7	1 552	4.6
Delaware	1 037	3.4	7 775	4.5	1 172	2.8	4 628	3.8	1 328	1.5	6 899	3.1
Des Moines	527	3.8	3 929	5.5	581	3.8	2 654	6.6	641	2.8	2 016	4.9
Dickinson	443	3.6	4 517	8.0	465	4.1	2 655	8.1	533	2.7	2 467	6.3
Dubuque	1 327	2.9	7 149	6.2	1 336	2.8	3 053	3.9	1 611	1.5	5 804	2.6
Emmet	450	4.8	4 486	5.1	452	5.2	2 766	7.2	534	1.9	3 042	5.7
Fayette	1 132	2.8	10 020	3.7	1 206	2.6	6 216	3.8	1 377	1.5	6 025	2.8
Floyd	700	3.6	6 155	5.1	687	3.9	4 462	4.8	852	1.7	4 097	3.0
Franklin	766	3.6	7 251	5.3	768	3.7	5 726	6.3	925	1.1	5 093	3.9
Fremont	528	3.5	5 181	8.3	506	3.8	4 405	8.5	565	2.5	2 862	4.2
Greene	727	2.4	7 327	4.7	723	3.1	5 359	4.0	841	1.3	3 742	4.0
Grundy	672	3.4	6 952	3.7	716	2.6	6 958	3.8	830	1.6	3 892	3.5
Guthrie	710	4.0	5 830	6.0	712	4.4	3 795	5.2	899	2.1	3 178	3.7
Hamilton	712	3.6	6 179	4.3	739	3.2	6 407	3.7	857	1.6	5 231	4.0
Hancock	781	3.1	6 581	5.3	821	2.9	5 421	8.0	922	1.3	5 323	4.5
Hardin	794	3.3	7 007	5.7	853	2.9	6 513	3.0	984	.9	5 072	2.6
Harrison	780	2.8	7 755	4.2	774	3.4	6 095	4.0	864	2.0	4 136	4.4
Henry	601	4.0	4 466	5.6	623	4.2	3 183	7.7	732	2.8	2 375	4.0
Howard	709	4.5	6 110	6.4	743	4.7	3 917	5.8	848	2.5	3 657	4.3
Humboldt	604	2.8	6 326	5.0	605	2.9	4 505	4.9	661	1.7	3 280	3.7
Ida	548	6.0	5 024	5.5	603	5.1	3 761	4.8	677	3.4	2 869	4.1
Iowa	645	4.4	5 016	4.5	709	4.2	4 568	5.0	960	1.6	3 772	3.6
Jackson	859	4.8	4 865	7.0	928	4.3	2 773	6.7	1 257	2.1	4 115	4.0
Jasper	1 041	3.0	7 963	3.1	1 048	3.0	6 046	4.3	1 258	1.7	4 567	2.9
Jefferson	579	5.1	3 524	6.9	500	6.7	2 322	7.3	695	1.9	2 206	5.0
Johnson	812	4.2	5 308	5.9	997	2.9	4 652	6.3	1 166	1.9	4 108	3.5
Jones	868	3.1	6 868	4.3	940	2.9	5 028	5.4	1 034	2.4	4 829	3.6
Keokuk	724	3.5	5 626	5.2	749	3.6	3 819	6.2	876	2.5	3 421	4.8
Kossuth	1 427	2.0	13 549	3.2	1 380	2.3	9 330	3.7	1 578	1.2	9 501	2.9
Lee	644	4.3	4 407	5.7	625	5.3	3 007	5.7	825	2.9	2 942	3.7
Linn	1 037	3.8	6 597	4.6	1 207	2.9	5 378	4.9	1 477	1.4	4 472	4.5
Louisa	448	4.3	3 693	5.1	453	3.8	3 121	5.4	540	2.0	2 254	5.3
Lucas	364	6.6	1 541	10.4	300	8.7	771	8.6	612	2.8	1 292	5.9
Lyon	823	4.3	5 613	5.2	900	3.8	4 550	4.6	1 128	2.8	4 430	3.9
Madison	709	4.0	3 814	4.8	825	3.5	2 992	4.8	1 002	1.5	2 502	5.2
Mahaska	866	3.2	5 486	4.6	909	3.1	4 281	4.5	1 016	1.9	4 029	3.3
Marion	778	4.1	3 448	5.5	790	4.0	2 836	9.6	968	2.0	2 321	5.6
Marshall	766	3.5	6 435	5.7	872	2.3	6 291	4.6	924	1.5	4 304	4.3
Mills	432	4.1	4 488	4.5	484	3.2	3 709	3.5	542	2.4	2 497	5.1
Mitchell	682	3.8	5 162	5.9	685	4.0	3 851	4.1	812	1.6	4 222	3.5
Monona	683	3.1	7 768	3.3	684	3.7	5 318	4.9	810	1.7	3 681	4.1
Monroe	361	8.8	1 268	8.5	403	7.7	770	12.5	635	3.4	1 306	6.0
Montgomery	506	3.6	3 859	5.3	512	3.7	2 749	5.9	593	2.4	2 726	7.1
Muscatine	607	4.5	4 413	6.9	703	3.5	2 908	5.9	744	2.5	2 924	3.5
O'Brien	932	3.3	7 401	4.0	949	3.4	5 759	5.7	1 114	1.4	4 699	3.9
Osceola	626	4.0	5 003	5.1	591	4.7	3 792	6.1	734	1.4	3 875	6.9
Page	750	3.2	4 671	5.3	801	3.1	3 398	6.0	887	2.0	2 840	4.5
Palo Alto	736	2.9	7 018	6.3	747	2.9	4 368	5.5	804	2.0	4 507	4.4
Plymouth	1 273	2.5	9 107	2.8	1 321	2.8	7 033	3.3	1 543	1.9	6 943	2.4
Pocahontas	810	2.6	7 599	4.4	807	2.9	5 357	4.9	904	1.4	4 469	3.6
Polk	568	4.0	4 326	4.3	595	4.7	2 997	6.4	810	1.9	2 452	3.7
Pottawattamie	1 187	2.5	10 612	4.1	1 220	2.6	7 990	3.9	1 392	1.7	6 536	3.5
Poweshiek	698	5.2	5 639	5.2	739	4.0	3 630	4.5	902	1.9	3 843	3.6

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.											
	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)
Ringgold	450	6.4	2 620	9.5	489	6.1	1 346	8.7	638	2.8	2 082	4.5
Sac	793	3.5	7 084	5.2	791	3.0	5 848	6.2	960	1.5	4 713	4.0
Scott	722	4.0	5 783	5.0	794	3.0	4 606	6.1	892	1.6	3 938	3.8
Shelby	901	3.0	8 043	4.0	950	2.8	5 646	4.2	1 054	1.7	4 563	3.2
Sioux	1 470	2.6	10 019	3.4	1 602	2.7	7 088	3.2	1 921	1.6	7 548	2.7
Story	761	3.7	6 519	4.7	816	3.2	4 398	4.5	962	1.7	3 542	3.4
Tama	943	2.9	9 124	5.3	1 109	2.6	6 895	3.3	1 251	1.6	4 794	5.2
Taylor	567	5.3	3 189	5.7	553	5.1	2 037	6.4	687	3.5	2 187	5.7
Union	400	7.1	2 103	6.7	444	6.2	1 789	11.0	612	3.8	1 839	6.2
Van Buren	514	6.1	2 287	8.4	497	6.1	1 471	8.0	714	3.3	1 741	6.6
Wapello	522	5.5	2 680	8.7	471	6.2	1 563	6.8	736	2.2	1 587	6.7
Warren	839	4.6	3 165	4.7	873	4.0	3 025	6.7	1 152	2.1	2 855	4.6
Washington	778	3.7	5 208	4.8	862	3.8	4 454	5.2	1 050	1.5	4 124	3.7
Wayne	576	4.1	3 217	5.7	523	5.5	1 597	7.1	640	3.2	1 732	5.0
Webster	880	3.2	7 804	4.4	885	3.5	6 363	4.8	1 043	1.3	4 497	3.8
Winnebago	520	3.7	4 790	5.7	532	3.6	3 540	6.0	644	1.1	3 544	4.1
Winneshiek	1 101	3.8	5 748	4.3	1 143	3.7	3 355	4.5	1 428	2.1	4 834	4.3
Woodbury	949	3.3	9 157	5.4	950	3.7	6 622	5.1	1 189	1.7	4 634	3.9
Worth	482	3.9	4 791	3.2	487	4.4	3 335	4.2	621	1.9	3 561	3.7
Wright	699	2.5	7 597	5.1	716	2.4	5 437	4.0	794	1.3	4 237	5.7

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)
Iowa	81 860	1.1	133 955	.9	36 520	1.3	259 210	.9	7 275	2.7	19 833	3.3
Adair	723	4.0	1 077	5.7	259	13.6	1 391	10.0	103	24.1	356	38.4
Adams	563	4.0	744	8.7	159	17.2	729	15.4	40	34.5	81	20.2
Allamakee	942	2.4	1 817	3.6	421	8.7	2 100	10.4	75	25.8	126	28.5
Appanoose	637	5.3	348	8.1	187	16.4	476	11.4	38	40.0	58	44.5
Audubon	684	2.6	1 348	3.5	245	10.2	1 849	2.3	92	21.3	278	20.3
Benton	1 184	2.5	1 821	3.5	535	7.1	3 229	4.8	137	17.3	286	20.7
Black Hawk	928	3.1	1 339	4.2	398	8.1	4 533	9.2	90	22.9	171	10.1
Boone	714	4.0	1 037	4.1	370	9.2	2 973	3.1	61	28.3	88	14.5
Bremer	833	3.5	1 400	7.1	443	7.5	2 235	10.9	71	27.1	110	42.2
Buchanan	968	3.5	1 840	3.7	552	7.0	4 499	9.3	74	27.8	133	22.6
Buena Vista	803	3.3	1 659	2.9	435	7.4	3 562	1.7	50	27.6	178	7.4
Butler	1 005	2.9	1 656	3.1	435	7.6	2 894	8.6	86	19.7	528	36.4
Calhoun	788	3.6	1 108	3.8	367	7.8	1 525	5.9	67	19.2	129	20.5
Carroll	1 070	2.4	2 064	3.2	537	6.9	2 722	5.4	129	18.4	280	27.2
Cass	792	2.8	1 232	5.2	335	10.5	2 181	10.5	77	26.7	98	23.0
Cedar	971	2.4	1 888	4.5	360	10.4	3 538	7.9	75	23.7	284	23.0
Cerro Gordo	662	4.0	1 163	3.5	338	8.3	3 564	10.2	47	23.4	83	18.3
Cherokee	799	3.8	1 580	4.4	370	8.7	2 733	11.9	77	21.3	330	18.3
Chickasaw	866	2.8	1 422	4.1	432	7.3	2 226	6.1	49	29.6	174	7.3
Clarke	555	4.9	468	7.2	132	17.7	560	6.8	41	31.8	91	54.8
Clay	657	3.8	1 184	4.7	351	8.6	3 764	11.2	65	26.7	439	21.1
Clayton	1 325	2.3	2 909	3.2	739	6.0	4 345	8.0	120	20.7	237	18.3
Clinton	1 171	2.6	1 847	6.1	569	7.3	3 178	6.4	71	22.7	100	34.9
Crawford	1 023	3.5	1 701	4.4	492	8.5	2 613	11.9	78	20.1	301	18.5
Dallas	749	3.9	1 011	4.2	333	9.3	3 790	2.3	88	23.3	537	6.0
Davis	638	5.8	698	7.2	276	11.8	1 014	13.4	53	32.0	65	33.5
Decatur	429	5.8	432	7.5	160	16.1	1 329	8.2	39	37.3	101	19.9
Delaware	1 227	2.5	3 248	2.4	615	6.3	3 714	6.5	113	21.6	265	15.7
Des Moines	555	4.3	594	7.9	207	11.4	1 222	10.0	29	36.6	80	43.9
Dickinson	500	2.5	729	5.3	205	12.4	1 621	13.2	21	39.7	87	58.1
Dubuque	1 545	1.9	3 554	3.6	703	6.7	3 625	6.4	90	21.6	166	20.9
Emmet	457	3.5	737	4.7	274	9.6	1 528	18.8	46	33.0	164	51.1
Fayette	1 250	2.4	2 710	3.8	660	5.7	5 104	6.8	113	18.7	366	18.0
Floyd	712	3.8	1 144	3.6	357	8.7	3 206	2.6	82	24.8	129	27.5
Franklin	811	3.3	1 530	3.7	317	9.2	3 029	14.2	34	23.7	370	1.0
Fremont	508	4.1	800	6.3	282	10.5	2 787	11.4	90	24.1	233	43.6
Greene	726	3.5	1 052	5.1	388	8.3	2 797	6.5	118	18.4	450	35.2
Grundy	754	3.4	1 161	4.0	328	9.4	3 523	5.7	87	21.2	149	14.3
Guthrie	764	3.4	1 547	3.7	367	10.1	2 963	7.5	52	31.9	89	40.2
Hamilton	758	3.0	1 747	3.6	397	8.2	5 586	.9	46	24.8	367	2.8
Hancock	863	2.4	1 611	4.8	464	6.8	2 061	10.1	63	26.5	125	17.9
Hardin	835	3.2	1 746	2.9	411	8.1	3 151	8.7	92	24.4	392	30.5
Harrison	765	3.3	1 487	4.1	360	8.8	2 028	6.3	112	19.6	289	20.1
Henry	622	4.5	638	4.6	221	12.5	1 485	4.7	75	21.5	93	11.4
Howard	694	4.5	1 144	4.7	335	10.5	1 857	6.4	60	29.9	170	16.1
Humboldt	606	3.6	816	4.2	318	8.9	1 398	2.5	61	27.5	75	24.4
Ida	595	5.8	1 253	6.7	312	9.5	1 639	9.3	35	25.7	95	23.0
Iowa	887	2.8	1 485	3.9	263	11.4	3 354	6.2	53	29.3	61	15.1
Jackson	1 205	2.7	1 905	5.1	478	8.4	2 504	12.6	40	35.1	41	38.0

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.											
	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)
Jasper	1 105	3.2	1 697	3.9	449	8.4	3 306	4.4	117	22.5	318	26.2
Jefferson	594	5.7	626	4.8	226	11.0	1 312	7.2	38	41.2	90	11.1
Johnson	1 061	2.7	1 410	5.3	459	7.9	2 365	7.3	62	27.1	150	26.6
Jones	974	3.1	1 660	3.5	336	10.2	2 869	5.8	54	22.6	144	5.5
Keokuk	794	3.5	1 129	4.6	287	10.1	1 791	12.8	61	26.3	116	13.7
Kossuth	1 420	2.4	2 572	3.5	775	6.3	4 939	6.3	118	19.0	267	23.1
Lee	649	5.0	1 032	7.1	246	14.0	2 533	5.9	82	26.6	288	42.0
Linn	1 332	2.5	1 559	3.4	352	9.6	2 926	9.1	147	20.5	416	21.3
Louisa	497	3.2	662	7.2	209	11.2	1 333	16.9	68	23.3	94	21.4
Lucas	513	5.1	515	10.2	151	16.2	604	3.2	60	26.5	122	68.4
Lyon	1 129	2.3	1 834	4.9	463	10.2	3 928	6.1	103	25.2	190	11.1
Madison	862	3.5	1 277	6.5	288	11.3	2 412	4.4	85	29.4	163	20.6
Mahaska	911	3.1	1 761	3.6	319	9.2	3 066	5.9	89	22.6	314	36.6
Marion	810	4.1	1 069	7.0	325	12.9	1 717	12.6	83	30.3	171	9.9
Marshall	785	3.2	1 281	4.8	421	6.9	3 878	7.7	83	22.1	284	10.9
Mills	477	3.6	769	4.8	232	9.1	3 228	12.7	50	24.2	98	11.9
Mitchell	732	2.9	1 451	3.3	363	8.4	2 891	6.9	80	22.4	358	7.0
Monona	715	3.3	1 055	4.9	289	10.4	2 310	6.5	182	15.1	327	23.2
Monroe	519	5.8	442	10.7	198	14.5	893	14.7	45	38.0	73	34.3
Montgomery	558	2.6	866	3.7	181	13.5	3 563	6.3	44	31.8	212	9.8
Muscatine	731	2.3	960	5.6	227	12.4	1 793	6.5	61	26.7	76	21.0
O'Brien	1 050	2.3	2 159	4.7	491	8.4	2 968	10.0	40	26.0	187	5.3
Osceola	665	3.7	1 065	4.2	301	10.1	2 313	10.9	44	36.8	126	29.2
Page	750	3.9	964	5.9	366	9.0	4 621	6.4	85	24.2	125	21.7
Palo Alto	771	2.6	1 337	5.6	478	7.0	1 984	11.1	40	32.4	92	12.9
Plymouth	1 418	2.7	2 696	3.0	690	6.1	4 076	7.4	121	16.3	417	30.1
Pocahontas	798	3.2	1 250	5.0	385	8.1	2 200	6.3	30	29.0	102	9.4
Polk	618	5.0	646	6.4	248	11.4	2 613	3.6	57	27.8	126	34.4
Pottawattamie	1 259	2.6	2 268	3.6	505	7.5	4 323	4.0	97	19.3	193	13.5
Poweshiek	823	3.3	982	5.5	268	11.4	1 436	6.7	93	25.0	167	20.1
Ringgold	494	5.7	734	7.2	212	12.3	642	17.8	58	27.5	134	28.2
Sac	849	3.3	1 579	3.9	429	8.5	3 377	5.2	72	25.0	185	26.8
Scott	782	3.1	1 256	5.0	320	10.8	3 040	7.9	81	22.1	416	9.6
Shelby	972	2.8	1 836	3.6	413	7.7	2 604	6.9	55	23.4	145	17.9
Sioux	1 801	2.3	3 709	3.0	966	5.2	7 258	4.3	142	14.6	485	17.9
Story	895	2.7	1 412	3.8	396	8.7	3 757	3.8	93	19.4	266	7.5
Tama	1 053	2.9	1 645	4.4	408	9.4	2 750	4.7	113	22.1	195	22.0
Taylor	604	4.9	802	9.2	271	13.3	1 678	13.2	54	32.0	83	29.6
Union	536	5.6	667	8.5	247	12.0	1 526	11.2	49	35.2	245	67.4
Van Buren	559	5.8	543	6.1	251	11.9	928	5.2	20	40.1	56	29.9
Wapello	515	6.2	364	8.8	151	15.3	808	2.7	48	33.5	43	19.3
Warren	942	3.5	977	6.4	379	9.8	1 649	5.8	105	23.5	233	24.9
Washington	932	2.8	1 594	3.8	431	7.7	3 748	4.6	70	22.8	340	21.5
Wayne	531	5.3	457	7.2	221	12.3	586	18.1	49	32.2	40	12.6
Webster	876	3.4	1 225	4.3	437	7.6	3 573	3.3	50	29.4	93	7.1
Winnebago	578	3.4	839	5.0	245	10.8	1 144	12.5	60	26.2	93	30.0
Winneshiek	1 292	3.0	2 379	3.6	618	7.3	3 346	12.4	82	24.1	119	19.4
Woodbury	971	3.9	1 698	5.2	493	8.7	3 270	10.0	155	19.6	511	24.2
Worth	532	4.3	724	3.6	211	11.7	1 022	6.9	32	22.2	78	8.9
Wright	708	3.1	1 094	4.8	401	7.7	2 579	5.0	63	20.3	377	66.3

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)
Iowa	86 413	1.1	485 479	1.0	48 890	1.3	141 975	1.8	61 909	1.2	593 994	1.0
Adair	797	3.3	4 541	6.0	445	9.4	1 330	20.5	586	6.5	5 182	8.7
Adams	555	4.5	2 313	7.8	311	10.7	664	13.9	384	8.7	2 795	9.0
Allamakee	896	2.9	5 290	4.7	546	6.5	1 828	25.6	687	5.0	6 458	7.8
Appanoose	731	3.8	2 079	8.3	317	11.4	523	21.4	407	8.4	2 137	12.5
Audubon	706	2.3	4 502	2.9	427	6.9	985	9.5	519	5.3	5 950	4.7
Benton	1 208	2.2	6 896	4.0	683	6.2	1 570	8.3	926	4.1	8 286	6.0
Black Hawk	1 006	2.5	5 745	4.0	520	7.3	1 618	11.4	636	5.8	7 019	7.2
Boone	808	3.0	4 436	6.0	468	6.9	1 861	16.5	553	6.0	5 148	7.3
Bremer	967	2.2	4 808	4.6	497	7.2	1 310	10.7	734	4.8	6 939	5.8
Buchanan	1 100	2.0	6 556	5.3	603	7.0	1 472	9.5	754	5.0	7 753	6.3
Buena Vista	862	2.7	6 409	3.9	521	6.1	2 077	12.5	634	5.0	6 616	6.4
Butler	1 044	2.2	5 005	2.8	625	5.3	1 281	7.3	782	4.5	7 783	4.7
Calhoun	824	2.9	4 960	4.6	495	6.0	1 138	15.2	693	4.6	6 835	5.9
Carroll	1 111	2.0	6 971	3.7	592	6.5	1 731	9.4	836	4.1	7 213	5.2
Cass	817	2.8	4 755	5.5	540	6.5	1 308	10.7	637	5.0	5 200	5.6
Cedar	964	2.6	5 890	4.9	583	7.1	1 846	11.6	767	4.3	8 348	7.1
Cerro Gordo	746	2.5	4 774	4.0	486	6.3	1 987	12.3	526	5.7	5 154	7.2
Cherokee	885	3.1	5 872	5.3	506	7.1	1 320	10.4	635	6.0	6 756	5.7
Chickasaw	913	2.5	5 179	6.0	488	7.6	1 845	13.7	670	5.5	7 011	5.7

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.											
	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)
Clarke	560	5.2	1 760	5.6	225	14.1	308	14.4	367	10.0	2 189	10.6
Clay	689	3.2	4 543	5.1	431	7.1	1 880	16.3	566	5.2	6 685	8.0
Clayton	1 464	2.1	8 298	3.6	919	4.7	2 625	18.5	1 079	3.9	10 826	5.7
Clinton	1 226	2.5	6 037	4.7	704	5.7	1 875	9.3	921	4.6	9 448	5.2
Crawford	1 126	2.8	5 541	5.1	632	7.0	1 480	11.6	864	4.6	7 932	5.6
Dallas	805	3.1	4 359	5.2	410	8.2	1 215	11.6	519	6.5	5 058	6.9
Davis	785	4.3	2 528	7.2	358	10.2	508	16.9	464	7.5	2 606	10.3
Decatur	520	3.5	1 961	5.9	258	11.5	482	21.2	359	8.0	2 184	9.7
Delaware	1 250	2.3	9 206	3.6	773	5.0	1 964	9.2	938	4.3	11 660	4.3
Des Moines	627	3.1	3 161	5.8	306	9.2	811	23.2	370	8.3	3 255	8.9
Dickinson	499	2.7	3 035	4.6	289	9.8	1 345	20.7	342	7.7	3 955	9.6
Dubuque	1 541	2.1	9 855	4.0	927	5.1	2 377	8.6	1 011	4.8	9 517	5.0
Emmet	502	3.4	2 823	6.2	239	12.2	714	25.7	340	7.5	3 178	9.2
Fayette	1 259	2.2	8 137	3.6	779	5.7	2 127	9.3	885	4.7	9 087	6.1
Floyd	761	3.0	4 735	5.2	422	8.1	1 004	10.3	564	5.2	5 314	6.9
Franklin	841	2.9	4 976	4.7	443	7.6	1 668	11.6	701	4.5	7 000	5.4
Fremont	530	3.3	4 260	5.8	342	8.2	1 485	13.9	374	6.9	4 788	5.8
Greene	747	3.2	5 334	6.8	461	7.1	1 627	12.1	614	4.8	5 767	4.5
Grundy	776	2.5	5 064	4.2	515	6.3	2 598	11.3	608	4.6	7 611	4.9
Guthrie	844	3.2	4 639	6.2	525	7.2	1 084	12.4	556	6.4	5 173	7.2
Hamilton	789	2.5	5 696	4.8	418	8.8	1 435	11.3	659	4.1	8 151	7.9
Hancock	890	2.1	5 604	6.7	467	7.8	1 459	22.7	620	4.9	6 592	6.0
Hardin	889	2.8	5 724	3.1	448	7.3	2 069	8.9	672	4.9	7 384	5.1
Harrison	819	3.0	5 219	5.2	349	9.3	1 605	9.7	644	4.4	6 365	4.7
Henry	682	3.4	3 077	5.6	391	9.0	1 176	18.3	474	6.7	4 678	7.4
Howard	793	3.9	4 760	5.9	508	7.0	1 246	10.3	676	5.5	5 214	5.8
Humboldt	654	1.8	3 988	5.3	318	8.9	879	14.0	466	5.8	4 737	7.0
Ida	714	2.0	3 772	4.4	369	9.2	1 327	10.9	496	6.9	5 123	8.5
Iowa	890	2.4	4 886	4.7	532	6.6	1 502	9.3	633	5.7	5 920	5.2
Jackson	1 171	2.9	5 120	4.5	587	7.1	1 236	8.7	888	4.8	8 440	7.3
Jasper	1 202	2.4	6 300	4.5	612	7.0	1 516	8.1	789	5.1	8 430	6.2
Jefferson	654	3.8	2 966	6.1	324	10.0	750	13.9	464	7.6	3 015	9.3
Johnson	1 071	2.8	5 060	6.1	626	6.3	1 316	10.3	792	4.8	7 180	6.6
Jones	1 033	2.6	6 131	4.3	612	6.2	1 619	14.4	728	5.2	8 543	6.5
Keokuk	811	3.4	4 408	6.6	399	8.3	1 272	17.6	534	6.3	5 014	7.2
Kossuth	1 462	2.0	10 300	3.8	795	6.1	2 761	18.8	1 152	3.7	12 539	4.6
Lee	713	4.6	4 500	5.9	347	11.4	911	12.4	501	7.6	5 034	8.2
Linn	1 315	2.8	5 849	4.3	736	6.8	2 222	16.1	796	6.2	6 964	6.1
Louisa	525	2.3	2 693	6.2	310	7.0	849	15.8	426	5.0	3 754	7.7
Lucas	582	3.4	2 074	10.4	266	9.9	540	25.4	317	9.4	2 254	10.9
Lyon	1 122	2.6	5 878	5.8	591	6.9	1 628	13.6	828	5.3	7 798	7.4
Madison	932	2.9	3 653	5.9	542	6.0	1 162	10.1	523	7.7	4 301	7.6
Mahaska	917	3.0	4 817	4.6	562	6.7	1 596	13.6	687	5.4	5 975	5.9
Marion	863	3.6	3 481	7.3	568	6.5	1 708	23.9	570	6.7	4 271	10.2
Marshall	850	2.5	5 434	3.4	518	6.5	1 469	10.0	617	4.8	5 989	7.3
Mills	485	4.1	3 142	6.8	334	7.0	1 002	11.4	361	6.4	3 629	6.1
Mitchell	761	2.5	5 445	3.5	477	7.2	1 593	13.3	639	4.6	6 557	6.1
Monona	720	3.4	4 310	5.7	444	8.0	1 606	13.6	533	6.2	4 612	8.1
Monroe	574	4.3	1 866	6.6	271	11.4	330	21.2	395	8.5	2 590	10.9
Montgomery	535	3.6	3 402	4.6	280	9.9	936	13.4	341	7.8	3 114	8.3
Muscatine	693	3.2	3 631	5.2	345	8.7	759	17.5	461	6.8	4 781	7.8
O'Brien	1 046	2.4	5 972	4.7	571	7.4	1 546	11.5	781	4.9	7 113	6.3
Osceola	627	4.3	3 972	6.2	353	9.3	1 140	13.7	483	6.8	4 421	8.2
Page	826	2.7	4 235	12.0	516	6.6	1 278	10.2	553	5.7	5 120	7.5
Palo Alto	787	2.2	4 389	4.9	443	7.2	1 219	15.1	577	5.0	7 559	7.8
Plymouth	1 460	2.2	9 918	3.2	902	4.8	2 397	7.9	1 012	4.4	10 153	4.8
Pocahontas	845	2.7	4 950	5.1	415	8.4	1 754	21.8	551	6.0	6 037	6.9
Polk	703	3.7	3 474	4.3	388	8.4	764	18.3	449	7.1	4 367	10.0
Pottawattamie	1 319	2.3	7 616	4.0	857	5.1	3 230	9.0	963	4.6	9 031	5.8
Poweshiek	877	2.5	5 232	10.5	361	11.2	802	17.5	662	4.5	6 257	6.2
Ringgold	599	3.9	2 610	9.8	243	11.4	516	17.8	402	8.0	2 673	9.1
Sac	876	3.0	6 234	4.6	523	6.6	2 039	18.4	672	5.4	6 766	5.1
Scott	827	2.5	4 523	3.9	388	8.6	1 048	11.1	548	6.0	6 366	5.8
Shelby	986	2.7	6 411	4.9	536	7.4	1 147	11.6	744	4.3	6 468	4.9
Sioux	1 820	2.1	12 230	3.3	1 241	4.2	3 415	5.3	1 486	3.4	15 546	3.2
Story	871	3.0	4 592	5.2	539	7.2	2 877	13.6	611	5.3	6 150	6.8
Tama	1 170	2.1	6 775	4.6	781	5.2	2 172	11.1	771	5.4	7 141	8.2
Taylor	654	4.0	3 190	8.6	403	8.4	1 074	12.4	454	6.3	3 401	8.2
Union	595	3.2	2 682	6.8	279	11.5	667	9.9	385	8.4	3 097	8.1
Van Buren	668	4.3	2 274	7.9	346	10.0	496	11.5	419	7.9	2 829	8.1
Wapello	688	3.2	1 899	5.8	305	10.4	666	12.4	402	7.3	2 305	8.1
Warren	1 022	3.1	3 972	5.7	630	5.7	1 624	24.0	612	6.6	4 694	11.0
Washington	971	2.5	5 902	3.7	528	7.0	1 416	10.3	708	4.8	6 342	5.5
Wayne	612	3.5	2 155	6.5	342	9.7	1 016	11.5	426	6.7	2 723	8.9
Webster	924	2.7	6 003	5.2	496	7.8	1 462	10.1	687	5.1	5 248	5.3
Winnebago	617	2.3	3 818	6.5	337	8.8	1 177	19.9	446	5.7	5 228	7.1
Winneshieki	1 251	3.3	6 279	3.8	887	5.3	2 117	11.5	961	5.4	7 799	5.9
Woodbury	1 088	2.8	6 065	5.1	650	6.8	2 278	11.6	677	6.4	6 735	6.9
Worth	567	3.5	2 969	3.9	295	9.4	611	11.9	417	5.5	4 647	5.2
Wright	714	3.0	4 724	5.9	378	8.4	1 674	17.5	560	5.1	7 015	8.5

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	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)
Iowa	38 795	1.3	677 490	1.1	81 786	1.1	240 832	1.1	93 438	1.1	615 377	.9
Adair	292	10.8	3 168	9.8	781	3.9	2 515	5.3	861	2.4	5 495	5.2
Adams	230	12.4	1 967	13.5	606	3.0	1 200	8.2	619	2.4	3 184	12.7
Allamakee	349	10.2	3 841	10.5	927	2.6	2 684	4.9	977	1.7	7 428	5.5
Appanoose	154	16.9	527	17.5	773	3.3	1 335	6.1	791	3.2	2 303	11.7
Audubon	349	7.2	6 397	7.2	661	3.1	2 383	5.6	725	1.8	4 845	3.6
Benton	625	6.2	12 751	6.1	1 104	3.1	3 494	4.9	1 272	1.6	9 547	4.6
Black Hawk	484	6.5	13 600	7.1	923	3.0	3 294	5.9	1 099	.9	6 751	4.5
Boone	324	10.1	6 473	7.4	755	3.8	2 431	10.8	896	1.5	5 919	3.3
Bremer	562	6.7	8 991	6.5	889	3.5	2 551	6.5	1 020	1.9	5 947	4.7
Buchanan	532	7.2	10 145	5.9	995	3.4	3 452	6.6	1 162	1.4	7 748	3.5
Buena Vista	444	7.1	6 696	9.3	762	4.1	2 654	10.3	948	1.3	9 004	2.9
Butler	557	5.5	10 678	4.6	942	3.2	2 543	5.8	1 120	1.5	6 196	5.5
Calhoun	381	8.2	6 043	8.3	751	3.7	2 318	7.6	899	1.2	6 758	5.9
Carroll	635	6.0	8 890	5.8	949	3.6	2 628	5.5	1 161	1.4	9 079	3.3
Cass	387	7.9	6 102	8.4	704	4.8	2 400	5.3	867	1.9	5 832	7.2
Cedar	468	7.8	10 759	7.3	910	3.9	3 398	5.4	1 060	1.3	7 787	5.2
Cerro Gordo	433	6.4	11 167	6.7	691	3.4	2 526	7.1	797	1.7	6 600	3.9
Cherokee	552	6.7	8 375	7.4	772	4.1	2 151	5.5	976	1.1	8 023	5.4
Chickasaw	403	8.4	6 516	6.9	917	2.5	2 835	4.7	963	2.0	6 057	4.3
Clarke	185	14.9	1 579	14.2	580	4.7	1 330	6.9	635	3.0	2 279	8.7
Clay	338	9.2	6 113	9.0	671	3.7	1 986	8.3	763	1.4	7 033	6.6
Clayton	500	7.5	5 654	8.3	1 467	2.0	4 737	3.6	1 573	1.1	11 788	5.8
Clinton	609	6.4	10 774	6.4	1 123	3.3	3 159	6.6	1 326	1.5	7 501	5.1
Crawford	565	7.8	9 128	8.1	1 072	3.5	3 296	6.0	1 208	1.8	7 855	4.6
Dallas	343	7.6	5 671	8.3	809	3.3	2 634	6.0	904	2.0	5 082	4.0
Davis	184	14.6	795	12.1	868	3.2	1 975	6.8	844	3.5	3 784	7.8
Decatur	182	13.3	1 012	15.9	588	2.9	1 460	8.0	596	2.6	2 583	9.6
Delaware	540	7.0	7 867	8.3	1 114	3.0	4 173	5.1	1 351	1.3	12 693	3.8
Des Moines	197	11.4	4 592	11.7	607	3.2	1 803	8.2	642	2.6	3 030	5.5
Dickinson	221	12.1	3 405	10.1	463	5.3	1 213	9.0	548	1.5	3 479	5.5
Dubuque	524	7.7	6 819	8.8	1 393	2.9	4 365	4.4	1 630	1.4	12 232	4.4
Emmet	268	10.5	6 303	15.0	418	6.4	1 282	10.6	537	1.7	2 585	8.0
Fayette	582	6.4	9 596	6.7	1 177	2.9	4 181	4.6	1 370	1.5	10 038	4.5
Floyd	397	7.5	8 043	8.9	680	4.6	2 312	7.0	852	1.8	5 770	5.7
Franklin	496	6.2	11 764	6.5	764	3.8	2 607	7.7	929	1.1	7 410	3.8
Fremont	171	15.9	2 569	13.7	471	5.5	1 644	8.0	586	1.8	4 552	5.7
Greene	343	9.2	6 033	8.4	709	3.8	2 332	8.0	834	1.4	5 976	5.8
Grundy	434	6.9	13 605	5.3	729	3.3	2 098	5.8	837	1.3	6 467	4.4
Guthrie	299	10.6	3 756	11.1	803	3.6	2 247	7.8	918	1.7	5 241	5.8
Hamilton	468	6.8	11 091	8.1	734	3.4	2 221	6.7	849	1.7	9 025	3.9
Hancock	475	6.8	11 692	9.9	727	4.3	2 052	11.0	933	1.1	5 938	5.1
Hardin	540	6.2	13 321	6.2	762	4.3	2 287	5.2	972	1.3	8 170	2.9
Harrison	325	8.5	5 144	8.7	822	3.0	2 580	5.6	898	2.0	6 303	5.8
Henry	269	10.2	3 722	10.0	720	3.1	2 109	6.5	787	1.5	3 711	4.5
Howard	361	10.2	5 690	9.2	830	2.5	2 358	5.9	869	2.0	4 997	5.4
Humboldt	327	8.9	8 234	9.2	469	6.1	1 702	9.6	670	1.4	4 725	5.6
Ida	371	7.1	6 810	6.5	606	4.3	1 690	6.6	728	1.7	5 462	6.0
Iowa	378	7.7	5 864	5.7	864	2.9	2 769	5.6	967	1.3	5 928	4.8
Jackson	402	9.0	4 493	9.6	1 223	2.6	3 301	5.1	1 290	1.7	7 694	9.0
Jasper	440	6.8	6 633	9.2	1 173	2.3	4 140	4.7	1 265	1.8	7 174	4.8
Jefferson	145	19.7	2 481	13.0	624	5.2	1 786	10.1	701	2.8	3 511	6.2
Johnson	413	8.8	5 162	7.7	1 084	2.9	2 885	4.9	1 176	1.8	6 220	5.9
Jones	464	7.9	7 277	9.0	940	3.2	3 038	5.5	1 052	2.0	6 742	3.5
Keokuk	294	9.1	5 141	10.1	872	2.3	2 591	8.0	912	1.9	5 574	10.4
Kossuth	962	4.5	21 245	5.9	1 243	3.5	4 318	5.5	1 564	1.2	12 051	4.7
Lee	302	10.0	4 125	12.4	822	2.4	2 635	5.9	816	2.1	4 721	4.6
Linn	557	6.8	9 481	7.8	1 289	3.0	3 851	5.5	1 473	1.6	6 316	7.0
Louisa	255	8.0	4 363	9.8	443	4.4	1 503	5.8	534	2.3	3 088	6.1
Lucas	125	18.0	873	15.4	590	3.2	1 334	9.5	601	3.1	2 398	10.8
Lyon	610	6.7	9 318	9.8	997	3.9	1 924	7.0	1 175	2.0	10 366	4.8
Madison	305	10.3	3 013	13.6	910	3.3	2 606	7.1	966	2.4	5 460	5.1
Mahaska	406	7.3	6 596	7.5	939	3.1	3 343	4.6	996	2.3	6 757	3.4
Marion	303	12.5	3 506	28.3	933	2.5	2 187	6.3	953	2.2	4 202	6.9
Marshall	438	7.0	11 057	8.0	718	4.1	2 457	6.5	928	1.2	6 874	6.3
Mills	210	8.9	3 684	10.1	466	3.9	1 448	7.0	523	2.4	4 882	9.2
Mitchell	379	7.2	8 065	6.0	684	3.4	2 054	5.1	804	1.7	6 972	4.2
Monona	276	10.1	4 874	9.0	653	4.6	1 865	7.8	807	1.8	4 933	4.1
Monroe	142	17.5	413	13.5	630	3.2	1 324	6.9	631	2.7	2 207	8.2
Montgomery	167	13.2	2 450	22.2	562	3.0	1 889	7.7	601	1.8	4 444	3.8
Muscatine	308	9.9	6 087	10.2	654	3.9	2 179	6.2	774	2.1	3 468	5.7
O'Brien	659	5.2	11 792	6.4	942	3.9	2 100	5.8	1 098	1.5	8 596	3.9
Osceola	349	7.5	6 881	9.3	562	5.9	1 453	7.8	719	2.1	5 792	4.8
Page	279	10.6	2 241	13.9	786	3.4	1 743	7.6	896	1.8	6 413	8.5
Palo Alto	358	9.4	6 951	10.3	676	4.3	2 516	7.8	840	1.1	4 854	5.2
Plymouth	816	4.9	13 707	4.2	1 326	3.2	3 358	4.6	1 572	1.7	12 123	3.3
Pocahontas	490	6.6	9 078	7.8	677	4.7	1 707	8.3	899	1.6	6 493	5.8
Polk	230	9.8	4 841	8.8	734	3.2	1 929	6.2	773	2.8	3 981	3.9
Pottawattamie	592	7.3	10 679	6.8	1 149	3.6	3 567	5.6	1 400	1.5	9 539	3.2
Poweshiek	345	9.0	5 363	9.6	779	3.9	2 262	7.9	903	2.0	5 607	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	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)
Ringgold	201	15.3	1 281	9.2	632	3.0	1 517	7.2	619	2.9	3 367	8.2
Sac	516	6.5	11 060	7.3	791	3.9	2 320	6.2	968	1.2	7 848	3.6
Scott	488	6.5	11 234	7.7	701	4.7	2 302	6.4	881	2.0	5 659	5.5
Shelby	588	5.7	8 870	6.0	891	3.6	2 805	6.1	1 056	1.8	7 653	4.4
Sioux	1 030	5.0	15 944	4.7	1 718	2.7	3 578	4.9	1 948	1.6	16 707	2.4
Story	417	8.2	6 936	8.8	826	3.2	2 437	7.6	967	1.4	6 767	6.2
Tama	584	6.9	12 954	9.1	1 139	2.6	3 296	6.6	1 240	1.7	7 368	4.9
Taylor	264	12.1	2 949	12.6	643	3.7	1 546	7.0	720	2.4	4 104	9.5
Union	160	15.1	1 751	9.0	622	3.4	1 583	7.5	643	2.6	3 352	8.8
Van Buren	130	17.2	1 336	17.5	717	3.4	1 600	6.9	728	3.4	2 535	6.1
Wapello	178	15.1	2 219	14.5	668	3.8	1 348	8.1	658	3.6	2 484	13.0
Warren	263	11.7	2 523	14.5	1 111	2.5	2 513	6.5	1 109	2.2	3 833	3.9
Washington	357	9.2	6 087	9.4	879	3.3	2 984	5.4	1 042	1.6	7 790	4.1
Wayne	165	14.4	1 772	19.6	687	2.6	1 535	6.6	702	2.6	3 037	8.9
Webster	427	7.9	7 488	7.9	852	3.7	2 329	5.8	1 043	1.3	8 255	3.1
Winnebago	335	8.0	9 117	9.2	533	4.9	1 461	6.3	626	1.6	3 407	5.5
Winneshiek	491	8.9	5 533	10.6	1 275	3.3	3 681	4.9	1 461	2.0	8 748	4.2
Woodbury	379	9.4	7 813	10.1	1 009	4.1	3 316	8.0	1 215	1.7	6 655	3.9
Worth	326	7.4	8 467	5.4	545	3.9	1 939	7.2	614	2.0	4 421	7.6
Wright	422	7.3	10 554	7.8	615	4.5	2 054	7.8	787	1.5	5 796	4.7
Net cash return from agricultural sales for the farm unit (see text) ¹												
Geographic area	Farms				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)
Iowa	96 541	1.1	2 193 209	1.0	88 224	1.1	27 195 676	.9	84 009	1.1	22 826 308	.8
Adair	892	1.3	15 587	8.8	818	1.2	273 975	1.1	759	1.3	201 988	1.1
Adams	643	1.4	9 813	16.3	590	1.4	188 706	1.4	544	1.4	124 077	1.4
Allamakee	999	1.4	18 512	10.1	903	1.3	198 075	1.2	846	1.4	143 265	1.2
Appanoose	827	2.6	9 007	14.9	756	2.7	179 944	3.0	699	2.8	96 528	3.0
Audubon	740	1.3	17 040	5.9	673	1.2	240 144	1.0	635	1.2	197 846	1.0
Benton	1 325	1.0	25 507	7.2	1 203	1.0	388 123	.9	1 158	1.0	337 633	.9
Black Hawk	1 110	.8	18 195	7.4	1 012	.7	277 241	.7	977	.8	257 277	.7
Boone	922	.9	30 019	5.5	862	.8	300 885	.8	831	.8	278 180	.8
Bremer	1 058	1.2	19 713	6.6	962	1.2	215 294	1.1	916	1.2	195 242	1.1
Buchanan	1 194	1.0	24 528	5.4	1 101	1.1	304 719	.9	1 054	1.1	274 972	.9
Buena Vista	973	.9	39 631	4.1	872	.8	314 590	.8	857	.8	294 236	.8
Butler	1 146	.8	23 683	6.1	1 019	.8	284 975	.8	962	.8	254 452	.8
Calhoun	899	1.2	37 741	3.2	833	1.1	325 486	1.0	806	1.1	304 854	.9
Carroll	1 196	1.0	44 026	4.1	1 087	1.0	332 327	.9	1 062	1.0	300 794	.9
Cass	906	1.2	22 307	6.0	828	1.1	305 308	1.0	790	1.1	243 861	1.0
Cedar	1 100	1.0	16 465	11.1	1 006	1.0	304 103	1.0	956	1.0	269 143	1.0
Cerro Gordo	821	1.0	21 717	7.4	765	.9	290 898	.9	737	.9	265 436	.9
Cherokee	978	1.1	33 670	6.7	890	1.1	297 605	.9	875	1.1	262 066	.9
Chickasaw	1 007	1.4	15 765	9.7	916	1.2	246 207	1.1	880	1.3	216 787	1.1
Clarke	680	1.3	6 063	11.1	632	1.3	172 652	1.2	569	1.4	90 864	1.2
Clay	770	1.1	25 791	7.2	714	1.0	287 686	.9	696	1.0	261 925	.9
Clayton	1 616	.9	37 294	4.9	1 509	.8	335 605	.8	1 393	.9	264 033	.8
Clinton	1 362	1.1	20 514	8.4	1 243	1.1	329 733	1.0	1 174	1.2	284 800	1.1
Crawford	1 259	1.3	21 449	7.2	1 147	1.3	363 063	1.1	1 071	1.4	292 233	1.1
Dallas	942	1.0	25 439	4.3	875	.9	278 983	.9	835	1.0	249 068	.9
Davis	892	3.0	6 847	18.0	828	2.8	194 232	2.6	781	2.9	112 533	2.5
Decatur	649	1.3	7 057	10.1	599	1.2	173 115	1.2	521	1.3	84 629	1.2
Delaware	1 366	1.1	38 389	6.3	1 260	1.0	296 319	.9	1 213	1.1	259 480	.9
Des Moines	680	1.2	12 902	7.2	626	1.1	161 555	1.0	602	1.1	139 979	1.1
Dickinson	554	1.1	14 826	7.2	508	1.0	184 781	1.0	491	1.0	164 037	1.0
Dubuque	1 652	1.3	38 051	6.2	1 516	1.2	275 588	1.1	1 433	1.3	223 921	1.1
Emmet	557	1.1	13 832	9.1	517	.9	209 670	.9	497	1.0	188 176	1.0
Fayette	1 416	1.1	32 249	5.8	1 296	1.1	346 042	1.0	1 231	1.1	301 257	1.0
Floyd	882	1.1	19 550	7.2	811	1.1	262 555	1.0	777	1.1	235 754	1.1
Franklin	929	1.1	23 018	6.4	843	1.1	320 581	1.0	825	1.1	294 828	1.0
Fremont	597	1.1	24 929	8.2	555	1.0	270 200	.7	533	1.0	230 305	.8
Greene	851	.9	35 566	5.5	785	.9	336 979	.8	761	.9	306 071	.8
Grundy	854	.9	26 980	6.6	773	.9	298 279	.7	747	.9	280 902	.7
Guthrie	946	1.3	20 608	6.2	842	1.2	271 920	1.1	780	1.2	206 313	1.1
Hamilton	875	.9	34 684	4.8	810	.8	313 284	.8	784	.8	290 657	.8
Hancock	939	.9	23 846	8.7	870	.9	312 797	.9	850	.9	289 686	.9
Hardin	986	.9	27 713	5.6	894	.8	303 894	.7	858	.9	280 091	.7
Harrison	919	1.3	27 400	5.2	852	1.2	342 194	1.0	824	1.2	294 151	1.0
Henry	795	1.2	14 026	7.6	737	1.1	188 831	1.2	698	1.2	157 639	1.2
Howard	882	1.4	10 547	13.3	798	1.3	233 274	1.1	761	1.3	198 178	1.1
Humboldt	677	.9	27 612	5.9	627	.8	265 244	.8	618	.8	248 840	.8
Ida	728	1.7	18 980	6.3	662	1.4	248 095	1.1	635	1.4	213 378	1.1
Iowa	978	1.1	15 799	8.7	924	1.0	272 811	.9	857	1.1	207 091	.9
Jackson	1 326	1.4	8 006	18.9	1 180	1.4	240 340	1.4	1 089	1.4	169 830	1.4

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	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)
Jasper	1 309	1.0	32 087	5.6	1 195	1.0	370 958	.9	1 143	1.0	306 533	.9
Jefferson	740	1.4	11 895	9.4	683	1.3	184 896	1.3	631	1.4	142 535	1.3
Johnson	1 241	1.1	14 559	9.2	1 153	1.1	248 641	1.0	1 085	1.1	202 620	1.0
Jones	1 112	1.1	18 078	8.8	983	1.1	270 433	1.0	931	1.1	223 868	1.0
Keokuk	952	1.2	16 504	7.4	868	1.2	267 668	1.1	810	1.2	195 808	1.1
Kossuth	1 592	1.0	42 111	4.9	1 502	1.0	580 414	.9	1 490	1.0	537 860	.9
Lee	873	1.2	14 499	6.8	818	1.1	206 408	1.1	780	1.1	165 453	1.1
Linn	1 529	1.0	18 036	8.0	1 412	.9	303 604	.9	1 338	.9	260 797	.9
Louisa	554	1.1	9 532	9.6	519	1.0	164 417	1.1	502	1.0	142 036	1.1
Lucas	629	2.4	1 310	48.4	576	2.4	156 312	2.4	523	2.5	76 475	2.4
Lyon	1 194	1.7	31 434	7.1	1 028	1.5	313 211	1.4	1 002	1.6	279 865	1.4
Madison	1 026	1.2	14 776	8.0	942	1.1	222 307	1.0	879	1.2	157 113	1.0
Mahaska	1 075	1.1	23 109	6.3	982	1.1	267 909	1.0	921	1.1	222 125	1.0
Marion	996	1.4	14 690	7.8	915	1.3	213 755	1.3	857	1.3	162 365	1.3
Marshall	949	.8	21 787	9.0	880	.8	282 571	.8	839	.8	244 553	.8
Mills	564	1.2	17 846	5.8	517	1.1	217 133	1.0	500	1.1	188 833	1.0
Mitchell	825	1.2	19 462	7.4	745	1.0	241 380	.9	724	1.0	218 886	.9
Monona	822	1.4	28 717	6.7	755	1.2	336 227	.9	717	1.3	286 468	.9
Monroe	683	1.4	6 089	18.6	624	1.4	145 059	1.4	575	1.4	74 121	1.5
Montgomery	616	1.2	15 785	7.7	575	1.2	207 995	1.1	546	1.2	167 462	1.2
Muscatine	803	1.0	12 359	8.1	726	1.0	189 685	1.1	691	1.1	164 397	1.1
O'Brien	1 146	1.3	33 468	5.7	1 019	1.1	332 435	1.0	1 010	1.2	309 290	1.0
Osceola	737	1.4	25 142	6.9	671	1.4	245 245	1.3	655	1.4	222 804	1.3
Page	917	1.1	30 268	5.2	849	1.1	272 370	1.1	812	1.1	208 542	1.1
Palo Alto	840	1.1	31 988	5.8	793	1.0	318 023	.9	779	1.0	288 764	.9
Plymouth	1 615	1.3	42 740	4.0	1 448	1.3	461 805	1.0	1 360	1.3	400 880	1.1
Pocahontas	919	1.1	33 820	4.8	878	1.0	342 054	.9	871	1.0	320 421	.9
Polk	832	1.2	19 409	6.1	752	1.1	207 394	1.0	717	1.2	187 257	1.1
Pottawattamie	1 439	1.3	47 216	4.5	1 310	1.2	491 976	1.0	1 258	1.2	432 137	1.0
Poweshiek	933	1.2	19 524	7.2	861	1.3	300 074	1.1	812	1.3	231 967	1.2
Ringgold	675	1.4	7 656	14.8	634	1.3	233 914	1.1	573	1.4	118 635	1.2
Sac	968	1.2	31 266	7.5	874	1.1	327 634	.9	852	1.1	294 926	.9
Scott	916	1.2	14 775	9.3	842	1.1	212 360	1.0	801	1.2	191 452	1.0
Shelby	1 086	1.3	26 577	6.4	980	1.2	329 939	1.1	953	1.2	289 366	1.1
Sioux	1 998	1.2	81 511	3.2	1 646	1.2	452 658	1.0	1 597	1.2	416 245	1.0
Story	989	.9	28 996	4.4	913	.8	306 862	.8	892	.8	283 490	.8
Tama	1 293	1.1	16 160	12.0	1 179	1.1	356 110	.9	1 132	1.1	297 407	1.0
Taylor	742	1.4	7 298	14.3	690	1.4	219 727	1.2	635	1.4	140 091	1.2
Union	672	1.3	9 580	10.6	612	1.3	174 743	1.2	562	1.3	109 504	1.3
Van Buren	753	2.8	5 509	15.7	685	2.7	169 302	2.6	636	2.8	108 272	2.7
Wapello	758	1.4	7 626	10.5	714	1.3	150 251	1.5	659	1.4	112 143	1.5
Warren	1 216	1.1	13 056	11.1	1 109	1.1	233 679	1.1	1 033	1.1	166 704	1.2
Washington	1 078	1.1	27 112	6.2	956	1.1	267 495	1.0	916	1.1	223 302	1.0
Wayne	733	1.2	5 747	12.2	670	1.2	230 344	1.1	618	1.2	126 823	1.1
Webster	1 059	1.0	40 656	4.1	971	1.0	379 412	.8	949	1.0	357 814	.8
Winnebago	644	1.1	11 046	10.9	605	1.1	216 521	1.1	584	1.1	197 469	1.1
Winneshiek	1 495	1.7	25 768	7.6	1 364	1.5	284 228	1.4	1 273	1.5	221 182	1.4
Woodbury	1 255	1.2	23 626	8.4	1 123	1.2	386 499	1.0	1 032	1.2	310 103	1.0
Worth	643	1.0	9 589	9.0	589	.9	209 339	.8	562	.9	187 748	.8
Wright	811	.9	28 523	5.8	760	.7	333 393	.6	744	.7	312 831	.6
	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)
Iowa	1 063	1.2	115 724	.9	43 610	1.1	3 963 602	.8	29 987	1.2	1 065 744	1.1
Adair	2	14.8	(D)	(D)	581	1.4	56 938	1.3	523	1.4	24 237	1.5
Adams	—	—	—	—	436	1.6	39 983	1.5	408	1.6	17 897	1.7
Allamakee	5	13.2	37	13.2	766	1.4	80 171	1.4	457	1.6	18 891	1.7
Appanoose	5	17.5	81	28.2	583	2.9	43 828	3.2	541	3.0	23 722	3.4
Audubon	2	15.1	(D)	(D)	314	1.6	37 028	1.1	228	1.9	9 227	1.8
Benton	11	7.6	175	15.2	561	1.3	62 890	.8	406	1.5	11 654	1.6
Black Hawk	27	4.6	960	3.2	339	1.4	20 966	1.4	174	2.0	3 223	3.7
Boone	6	8.0	20	16.8	265	1.5	23 687	1.2	185	1.9	5 571	2.1
Bremer	6	10.7	280	12.9	521	1.5	33 683	1.5	186	2.3	4 043	3.4
Buchanan	12	6.4	387	4.4	537	1.4	28 925	1.3	226	1.9	5 420	2.3
Buena Vista	3	11.5	430	16.1	210	1.6	23 882	1.2	144	2.1	4 368	2.4
Butler	4	11.9	254	11.9	428	1.2	26 677	1.1	226	1.6	4 889	1.9
Calhoun	6	9.2	341	7.6	213	1.9	20 491	1.3	144	2.4	4 193	2.5
Carroll	5	9.8	635	4.2	449	1.3	72 902	.6	278	1.7	11 870	1.6
Cass	1	28.3	(D)	(D)	510	1.4	54 055	1.1	436	1.5	18 918	1.5
Cedar	7	9.3	16	5.4	440	1.4	32 448	1.2	329	1.6	10 185	1.7
Cerro Gordo	5	14.9	(D)	(D)	165	2.1	9 397	2.5	118	2.6	3 346	3.3
Cherokee	5	13.9	913	16.8	428	1.3	50 783	.9	283	1.7	11 519	1.6
Chickasaw	10	6.6	1 077	6.4	449	1.5	35 827	1.3	192	2.2	5 043	3.2

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	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)
Clarke	4	17.1	73	22.8	471	1.4	38 628	1.3	431	1.5	20 117	1.3
Clay	10	5.8	758	1.8	218	1.7	22 729	1.2	157	2.1	5 358	2.3
Clayton	9	11.7	115	15.2	1 115	.9	100 245	.9	517	1.3	17 624	1.4
Clinton	14	8.4	103	5.7	591	1.4	59 168	1.0	340	1.8	10 612	1.9
Crawford	2	29.9	(D)	(D)	708	1.4	64 294	1.1	577	1.6	20 667	1.4
Dallas	13	8.0	238	5.2	303	1.6	20 857	2.0	237	1.9	7 309	2.3
Davis	7	12.9	54	2.6	618	3.1	43 295	2.7	493	3.3	19 722	2.9
Decatur	5	14.4	11	14.5	445	1.4	47 773	1.2	402	1.5	20 380	1.5
Delaware	10	10.1	661	6.8	833	1.2	76 197	1.0	249	1.8	7 210	1.9
Des Moines	16	6.7	814	.3	270	1.7	15 434	1.9	214	1.9	5 866	2.4
Dickinson	3	9.4	(D)	(D)	174	2.0	27 216	1.1	110	2.6	3 872	3.5
Dubuque	16	7.5	185	3.2	1 159	1.3	122 852	1.1	412	1.8	13 032	1.9
Emmet	2	17.6	(D)	(D)	157	2.0	16 608	1.4	113	2.5	(D)	(D)
Fayette	9	9.6	445	11.7	764	1.3	70 102	1.2	284	1.9	9 645	2.0
Floyd	7	7.3	920	7.2	299	1.7	16 681	1.8	183	2.2	3 951	2.5
Franklin	10	9.6	179	40.1	233	1.9	16 210	1.5	149	2.4	3 963	2.5
Fremont	13	4.4	2 076	2.5	259	1.6	22 096	1.1	228	1.7	(D)	(D)
Greene	6	11.2	(D)	(D)	274	1.6	23 666	1.8	232	1.7	(D)	(D)
Grundy	1	25.5	(D)	(D)	253	1.5	24 250	1.1	142	2.1	3 345	2.1
Guthrie	7	10.6	664	10.5	519	1.3	35 914	1.3	457	1.4	16 346	1.5
Hamilton	2	16.7	(D)	(D)	125	2.3	7 034	1.7	83	2.8	1 401	3.6
Hancock	8	7.0	775	4.9	209	1.7	16 073	1.8	123	2.2	2 902	2.1
Hardin	10	6.8	155	1.2	294	1.4	23 472	1.0	211	1.7	6 685	1.6
Harrison	75	3.1	17 450	2.2	417	1.6	37 441	1.2	333	1.8	12 613	1.6
Henry	4	13.4	9	10.4	319	1.7	16 166	2.0	256	1.9	6 682	2.1
Howard	5	10.3	172	10.4	398	1.6	34 047	1.4	180	2.2	6 397	2.3
Humboldt	3	15.9	(D)	(D)	123	2.1	13 666	1.5	64	3.0	2 066	4.3
Ida	1	—	(D)	(D)	332	1.6	36 936	1.0	233	1.9	8 255	1.7
Iowa	5	13.8	(D)	(D)	524	1.3	51 248	1.2	401	1.5	16 405	1.4
Jackson	14	8.4	284	6.3	974	1.5	102 856	1.3	700	1.6	27 476	1.7
Jasper	13	8.0	786	13.6	685	1.2	54 304	1.1	537	1.4	19 054	1.5
Jefferson	4	17.1	7	18.0	380	1.7	25 010	1.6	325	1.8	10 048	2.0
Johnson	13	8.6	305	6.0	606	1.3	38 931	1.4	428	1.6	12 853	1.6
Jones	7	13.5	(D)	(D)	607	1.2	64 373	1.0	395	1.5	15 263	1.6
Keokuk	2	23.9	(D)	(D)	476	1.5	30 966	1.4	404	1.5	13 997	1.6
Kossuth	6	12.0	587	14.6	361	1.6	33 741	1.2	175	2.2	5 657	2.3
Lee	14	7.1	1 688	5.9	444	1.4	30 136	1.4	343	1.7	10 252	2.1
Linn	37	4.9	581	18.0	702	1.1	43 250	1.2	502	1.3	12 075	1.4
Louisa	24	5.0	4 616	2.3	202	1.8	11 454	2.3	166	2.1	(D)	(D)
Lucas	—	—	—	—	441	2.6	37 644	2.6	411	2.7	19 583	2.6
Lyon	23	4.6	1 251	7.9	620	1.6	88 514	1.0	284	2.0	11 764	1.7
Madison	10	7.5	120	12.1	642	1.2	43 900	1.2	585	1.3	22 688	1.3
Mahaska	8	6.4	(D)	(D)	504	1.4	44 336	1.2	344	1.7	11 417	1.8
Marion	11	8.3	280	24.6	498	1.5	32 098	1.7	413	1.7	13 220	1.8
Marshall	10	9.0	38	20.0	387	1.2	28 373	1.3	298	1.4	8 658	1.6
Mills	4	10.9	664	13.9	221	1.9	17 990	1.3	178	2.1	5 832	2.1
Mitchell	3	10.6	3	10.6	289	1.5	36 900	1.0	107	2.6	3 033	2.7
Monona	108	2.2	37 781	1.5	314	1.8	39 705	1.2	232	2.1	9 938	1.9
Monroe	3	17.9	3	17.9	471	1.5	40 630	1.4	422	1.6	19 376	1.5
Montgomery	4	15.6	32	16.9	326	1.5	29 723	1.3	263	1.7	10 286	1.7
Muscatine	43	4.2	4 415	4.1	333	1.5	21 273	1.7	262	1.8	7 493	2.0
O'Brien	5	11.5	(D)	(D)	338	1.6	33 481	1.0	156	2.2	4 805	2.3
Osceola	6	11.8	604	14.8	239	2.0	26 898	1.2	83	3.2	2 082	2.9
Page	9	8.2	1 400	3.5	521	1.3	38 759	1.3	434	1.5	15 073	1.6
Palo Alto	26	5.0	3 962	2.9	225	1.7	21 187	1.3	127	2.3	4 177	2.1
Plymouth	12	8.0	1 930	10.5	715	1.3	92 041	.8	477	1.6	18 506	1.5
Pocahontas	6	10.2	(D)	(D)	181	2.0	15 639	1.4	87	3.0	1 882	4.2
Polk	21	7.2	417	9.2	242	2.0	13 162	1.9	193	2.3	4 721	2.4
Pottawattamie	28	4.9	3 067	4.0	682	1.4	74 955	.9	535	1.5	18 886	1.5
Poweshiek	1	—	(D)	(D)	530	1.4	43 718	1.3	443	1.5	17 404	1.6
Ringgold	—	—	—	—	482	1.4	49 136	1.3	453	1.5	26 840	1.3
Sac	7	7.9	739	6.0	299	1.6	46 962	.7	213	2.0	7 437	1.9
Scott	26	5.7	988	2.9	343	1.6	24 337	1.6	230	2.0	5 477	3.2
Shelby	3	13.8	168	14.7	510	1.4	43 037	1.2	394	1.6	12 117	1.7
Sioux	41	3.7	5 514	3.0	845	1.2	186 379	.5	233	2.1	10 127	1.8
Story	14	7.9	125	17.7	222	1.7	17 454	1.1	151	2.1	3 896	2.1
Tama	10	8.9	375	18.2	596	1.3	41 636	1.3	454	1.4	15 157	1.4
Taylor	1	37.3	(D)	(D)	454	1.5	39 735	1.5	408	1.6	17 054	1.7
Union	2	21.4	(D)	(D)	464	1.5	41 025	1.4	428	1.5	19 823	1.5
Van Buren	10	11.0	59	14.1	451	3.0	29 600	2.8	400	3.1	14 465	3.0
Wapello	3	14.7	3	14.7	398	1.7	24 322	1.6	343	1.8	12 320	1.6
Warren	7	12.6	53	16.4	706	1.3	43 380	1.4	632	1.3	19 273	1.5
Washington	5	14.5	(D)	(D)	421	1.6	29 911	1.5	304	1.8	10 301	2.0
Wayne	5	13.7	46	17.0	472	1.4	37 277	1.5	441	1.4	19 236	1.6
Webster	6	7.7	64	8.3	208	1.9	10 824	1.9	156	2.2	3 483	2.2
Winnebago	2	14.4	(D)	(D)	125	2.5	5 041	3.2	63	3.5	1 233	4.6
Winneshiak	6	12.2	62	21.2	1 010	1.5	96 613	1.4	458	1.8	16 005	1.9
Woodbury	32	4.1	6 352	1.4	508	1.5	66 198	.9	393	1.7	15 349	1.9
Worth	8	11.4	482	12.0	210	1.7	11 468	1.4	153	2.0	3 034	2.4
Wright	1	20.8	(D)	(D)	131	2.0	8 461	2.0	76	2.8	1 663	3.2

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.											
	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)
Iowa	5 878	1.3	258 925	1.0	31 790	1.0	14 153 158	.6	6 760	1.1	405 354	1.0
Adair	24	5.2	867	4.8	293	1.7	84 489	1.7	87	3.2	3 480	5.4
Adams	13	9.0	175	9.0	162	2.3	48 908	2.5	28	5.9	1 200	11.0
Allamakee	319	1.9	17 165	1.7	329	1.8	124 684	1.3	52	4.3	1 497	4.6
Appanoose	24	8.0	382	10.6	93	4.6	12 861	4.6	51	6.0	2 044	7.5
Audubon	10	9.5	194	12.2	293	1.6	139 909	1.1	44	4.6	2 371	5.6
Benton	47	3.9	2 319	3.8	459	1.3	163 836	1.1	115	2.6	4 438	4.8
Black Hawk	50	3.4	1 976	3.1	341	1.3	166 179	.9	62	3.2	3 311	6.9
Boone	14	8.2	236	17.3	212	1.6	98 653	1.1	88	3.0	2 877	5.4
Bremer	194	2.1	8 119	1.9	323	1.7	101 182	1.5	71	3.5	2 390	6.5
Buchanan	204	2.1	4 649	2.2	474	1.4	193 272	1.0	71	3.3	2 234	5.3
Buena Vista	12	7.0	471	2.2	382	1.2	214 021	.8	62	3.5	3 547	4.3
Butler	76	2.9	3 160	2.1	443	1.2	219 845	.9	111	2.6	3 771	3.6
Calhoun	8	9.5	130	15.5	257	1.6	139 325	1.1	77	3.4	5 188	6.1
Carroll	14	8.9	341	9.3	584	1.2	330 310	.8	45	4.1	1 568	4.6
Cass	16	7.7	390	9.0	291	1.7	94 483	1.3	82	3.4	4 275	6.3
Cedar	31	5.0	900	5.3	428	1.3	223 719	.9	127	2.4	4 993	3.8
Cerro Gordo	12	6.8	403	7.4	251	1.6	115 499	1.3	48	3.9	1 270	4.8
Cherokee	38	4.4	1 551	4.6	393	1.4	198 080	1.0	49	3.9	4 516	3.4
Chickasaw	146	2.4	5 882	2.3	344	1.6	138 910	1.1	51	4.2	2 986	8.4
Clarke	19	6.3	467	5.3	157	2.1	31 552	2.4	65	3.6	2 113	4.2
Clay	4	13.5	119	16.5	237	1.6	115 653	1.1	64	3.3	6 022	4.2
Clayton	545	1.2	26 611	1.2	644	1.1	288 229	.8	75	3.4	2 768	4.6
Clinton	60	3.5	3 054	3.4	526	1.4	168 278	1.2	88	3.3	3 855	5.5
Crawford	33	4.6	1 031	4.3	471	1.6	181 594	1.2	74	3.6	4 767	3.5
Dallas	10	9.1	250	10.6	164	2.1	58 480	1.7	52	4.1	2 114	6.9
Davis	106	4.8	1 738	5.7	225	3.6	56 187	3.3	144	3.8	16 670	4.1
Decatur	23	7.0	371	9.8	123	2.7	42 376	2.2	39	5.4	2 183	8.7
Delaware	414	1.6	22 570	1.4	815	1.1	489 966	.7	71	3.4	1 726	5.7
Des Moines	14	7.8	812	5.7	126	2.3	53 151	1.4	57	3.9	2 777	3.6
Dickinson	12	8.1	625	4.7	140	2.2	57 822	1.7	43	4.4	7 468	3.2
Dubuque	550	1.5	33 515	1.3	765	1.4	371 003	1.0	44	4.4	1 783	7.3
Emmet	5	11.6	(D)	(D)	151	1.9	57 110	1.7	29	5.6	1 263	8.3
Fayette	321	1.8	15 461	1.6	521	1.4	237 566	.9	83	3.4	3 752	8.4
Floyd	23	6.1	604	7.4	306	1.6	128 219	1.2	44	4.7	1 908	6.1
Franklin	27	5.6	961	4.1	309	1.5	168 832	1.0	69	3.7	4 429	3.4
Fremont	3	16.5	(D)	(D)	115	2.4	41 602	1.4	14	5.6	782	4.8
Greene	2	18.3	(D)	(D)	181	1.8	75 794	1.3	52	4.1	2 645	3.5
Grundy	21	5.7	819	6.4	305	1.4	145 054	1.0	68	3.0	5 596	2.1
Guthrie	21	5.2	424	6.9	258	1.7	96 817	1.3	65	3.4	2 241	7.5
Hamilton	7	8.0	413	1.7	235	1.4	207 043	.6	51	3.8	1 370	4.3
Hancock	16	7.5	504	9.6	349	1.3	166 642	.9	56	3.4	3 282	2.9
Hardin	7	9.5	161	10.6	337	1.2	204 098	.7	66	3.2	2 317	5.6
Harrison	8	12.1	123	16.2	191	2.2	62 520	1.5	20	7.2	847	6.5
Henry	13	7.0	364	6.8	196	2.0	91 562	1.4	81	3.5	3 554	5.2
Howard	125	2.8	5 148	2.6	340	1.7	103 793	1.7	37	5.0	1 744	7.6
Humboldt	12	7.7	459	7.3	186	1.6	99 198	1.0	51	3.7	1 863	5.4
Ida	15	6.1	503	5.2	295	1.6	120 240	1.1	50	4.0	2 635	5.4
Iowa	39	4.5	1 078	5.1	372	1.5	144 730	1.3	78	3.5	4 167	5.6
Jackson	165	2.5	8 010	2.3	512	1.7	162 940	1.5	71	3.9	3 028	5.4
Jasper	35	4.2	1 633	3.2	445	1.3	233 254	.8	126	2.6	4 622	3.2
Jefferson	14	7.7	621	4.9	199	2.1	83 196	1.4	75	3.7	6 885	2.3
Johnson	113	2.8	3 071	2.8	496	1.4	206 249	1.1	153	2.4	7 745	4.9
Jones	100	2.7	4 133	2.7	482	1.3	257 102	.8	67	3.5	1 773	4.5
Keokuk	18	7.5	232	9.3	385	1.5	210 698	1.0	88	3.1	7 125	3.2
Kossuth	45	4.1	1 742	3.6	488	1.3	231 962	.9	96	3.0	4 766	3.7
Lee	35	4.6	1 600	4.0	251	1.8	131 176	1.0	72	3.7	3 746	5.4
Linn	75	3.2	2 339	3.3	396	1.4	128 574	1.2	125	2.3	4 715	2.9
Louisa	6	14.7	(D)	(D)	159	2.1	59 935	1.9	32	5.5	1 088	7.5
Lucas	10	11.4	445	8.0	96	4.2	28 400	4.0	57	4.8	4 318	5.5
Lyon	86	3.2	3 884	2.8	514	1.6	232 607	1.1	75	3.6	7 911	5.8
Madison	11	8.7	156	16.3	216	1.7	61 197	1.4	88	3.0	3 326	4.6
Mahaska	36	4.6	1 578	5.0	436	1.3	242 573	.9	93	3.1	4 643	4.9
Marion	30	5.0	1 267	5.4	285	1.8	118 376	1.3	78	3.5	5 715	3.5
Marshall	18	5.9	892	3.9	232	1.6	126 867	1.0	94	2.8	4 455	3.7
Mills	3	17.7	92	17.9	128	2.5	40 049	1.6	21	6.6	1 218	7.8
Mitchell	89	2.8	3 161	2.8	372	1.4	179 330	1.1	60	3.7	2 406	5.5
Monona	13	7.8	216	12.9	235	2.1	72 564	1.7	40	4.8	1 700	5.4
Monroe	25	5.3	947	3.9	122	2.6	34 691	2.3	51	4.5	3 022	6.7
Montgomery	9	8.7	256	8.1	180	2.0	59 401	1.9	32	5.0	3 077	3.5
Muscatine	27	5.3	1 486	4.4	246	1.7	91 615	1.5	84	3.0	3 052	4.8
O'Brien	31	4.9	1 008	5.1	493	1.3	266 685	.8	88	3.1	4 725	4.4
Osceola	45	4.7	1 807	4.9	237	2.0	134 341	1.2	64	3.8	6 026	3.6
Page	9	8.0	261	5.6	277	1.7	85 280	1.5	47	4.1	1 976	6.1
Palo Alto	16	7.8	383	10.5	308	1.5	141 233	1.1	43	4.3	4 037	4.1
Plymouth	48	4.3	2 140	3.7	780	1.3	403 064	.9	123	2.9	8 615	2.2
Pocahontas	12	8.0	362	5.4	260	1.6	116 921	1.2	40	4.9	2 356	6.3
Polk	12	7.5	464	4.6	120	2.6	41 581	2.0	57	4.4	2 353	6.3
Pottawattamie	15	8.1	521	11.2	405	1.6	143 893	1.2	69	4.0	3 126	7.4
Poweshiek	23	5.8	867	4.3	310	1.8	127 039	1.4	82	3.4	3 748	4.7

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	Livestock and poultry — Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Ringgold	9	9.1	149	10.1	191	2.1	49 114	1.9	43	4.5	2 841	12.7
Sac	16	5.5	826	4.3	403	1.4	228 016	.8	83	3.0	9 410	1.7
Scott	35	4.4	2 264	2.7	284	1.6	139 039	1.1	80	3.6	2 431	5.0
Shelby	18	6.1	401	7.8	484	1.4	194 906	1.2	50	3.9	5 050	2.8
Sioux	155	2.3	10 100	1.6	972	1.2	601 488	.7	116	2.8	27 585	1.1
Story	13	7.7	951	4.7	237	1.5	112 381	1.1	93	2.8	4 793	3.0
Tama	39	3.8	1 305	4.2	411	1.5	132 216	1.3	113	2.9	6 994	4.7
Taylor	14	6.1	445	3.2	191	2.0	65 152	1.3	44	3.7	2 233	5.9
Union	9	10.1	235	12.9	145	2.4	43 233	2.3	51	4.3	22 893	.5
Van Buren	42	6.4	737	7.2	158	3.8	70 950	2.0	98	4.5	4 851	6.9
Wapello	17	6.9	408	4.4	142	2.4	54 724	2.1	42	4.6	3 599	2.5
Warren	32	4.5	1 286	3.9	226	2.0	72 833	1.4	77	3.8	3 011	5.9
Washington	53	4.5	1 153	5.5	561	1.3	344 170	.8	109	3.0	8 042	4.7
Wayne	14	7.5	383	7.2	149	2.1	39 010	1.7	45	4.1	2 747	3.2
Webster	11	8.6	413	12.4	234	1.7	116 958	1.1	49	3.6	1 741	5.7
Winneshiek	29	5.3	867	5.0	193	1.9	79 519	1.8	55	3.8	1 876	5.0
Winneshiek	461	1.8	22 796	1.6	591	1.6	182 524	1.3	72	3.9	3 824	3.7
Woodbury	13	8.9	254	11.1	374	1.6	146 568	1.2	93	3.4	4 180	4.4
Worth	12	9.1	371	7.6	206	1.7	72 076	1.5	46	4.1	1 548	4.8
Wright	5	15.2	116	19.3	181	1.6	82 232	1.1	59	3.2	1 830	4.7

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)
Iowa	2 590	1.2	11 162 662	.2	652	1.5	9 199 943	.3
Adair	30	5.8	958	10.9	6	11.8	2 120	17.7
Adams	23	6.9	1 420	14.0	3	—	1 107 000	—
Allamakee	21	7.3	2 752	8.9	5	11.1	(D)	(D)
Appanoose	21	8.6	443	12.5	—	—	—	—
Audubon	12	7.5	(D)	(D)	4	12.4	(D)	(D)
Benton	33	5.1	383 884	.1	10	11.0	5 318	10.8
Black Hawk	32	4.8	10 847	2.0	19	5.7	12 180	10.2
Boone	32	4.7	217 087	.6	5	16.2	750	21.1
Bremer	28	5.6	(D)	(D)	7	10.7	1 985	6.3
Buchanan	54	4.1	99 883	4.8	14	7.0	9 108	23.4
Buena Vista	14	7.7	(D)	(D)	5	13.1	1 457	7.0
Butler	36	4.2	(D)	(D)	12	6.1	2 752	7.4
Calhoun	14	7.1	(D)	(D)	3	18.0	1 394	19.8
Carroll	26	6.3	2 550	8.6	7	11.7	1 265	17.3
Cass	17	6.5	(D)	(D)	5	9.8	(D)	(D)
Cedar	35	5.3	1 624	8.1	7	13.0	3 042	16.8
Cerro Gordo	19	6.6	60 573	12.7	4	11.5	550	13.0
Cherokee	19	7.4	1 462	9.2	4	13.8	(D)	(D)
Chickasaw	27	5.7	44 389	5.7	8	10.7	1 473	14.9
Clarke	36	4.7	1 681	7.8	—	—	—	—
Clay	12	8.0	159 285	4.1	14	6.5	(D)	(D)
Clayton	33	5.1	(D)	(D)	5	10.7	3 205	10.3
Clinton	41	4.7	2 299	9.4	15	8.4	1 707	11.9
Crawford	41	5.3	19 399	27.8	6	13.6	352	19.3
Dallas	20	6.8	138 161	2.6	14	8.7	(D)	(D)
Davis	54	6.1	54 193	11.9	4	15.0	204	19.2
Decatur	30	5.9	662	8.6	3	14.2	740	24.6
Delaware	34	5.0	5 027	2.0	7	10.0	2 140	14.2
Des Moines	13	9.1	322	11.0	—	—	—	—
Dickinson	10	8.5	(D)	(D)	2	14.2	(D)	(D)
Dubuque	30	5.6	3 629	13.9	8	11.5	605	13.7
Emmet	15	7.4	(D)	(D)	7	11.4	2 155	10.7
Fayette	37	4.8	(D)	(D)	9	10.4	2 255	19.7
Floyd	21	6.9	877	11.1	7	12.7	(D)	(D)
Franklin	18	7.1	389 596	2.5	6	12.1	580	16.7
Fremont	11	9.4	368	10.4	2	13.9	(D)	(D)
Greene	13	8.7	1 252	20.8	4	15.8	(D)	(D)
Grundy	23	5.3	28 285	.6	8	10.2	2 955	15.5
Guthrie	22	6.3	(D)	(D)	7	9.9	2 499	14.1
Hamilton	17	7.2	8 875	13.9	7	10.0	1 398	16.6
Hancock	18	7.8	(D)	(D)	9	10.9	920	12.9
Hardin	23	6.0	1 241 915	(L)	7	11.9	6 185	20.2
Harrison	24	7.0	1 066	10.8	7	13.2	1 272	26.2
Henry	20	6.9	(D)	(D)	6	13.7	388	18.6
Howard	24	6.2	4 117	21.8	5	12.1	900	11.8
Humboldt	17	6.5	71 651	2.5	9	7.6	8 684	3.8
Ida	19	6.2	829	13.1	8	8.9	769	4.9
Iowa	17	7.3	900	7.8	6	9.4	3 659	12.8
Jackson	43	4.8	7 470	23.0	10	10.2	7 218	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	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)
Jasper	40	4.4	15 235	3.5	13	8.6	3 738	12.6
Jefferson	22	6.7	2 261	15.9	1	41.7	(D)	(D)
Johnson	101	2.9	464 316	.1	16	7.4	18 618	21.1
Jones	30	5.4	1 500	7.2	1	35.7	(D)	(D)
Keokuk	25	5.8	(D)	(D)	5	12.1	800	22.7
Kossuth	27	6.1	78 019	2.2	15	6.9	2 491	8.3
Lee	26	6.6	1 376	22.2	2	21.8	(D)	(D)
Linn	44	4.3	2 891	8.6	14	8.0	3 391	17.8
Louisa	8	10.8	343	19.0	–	–	–	–
Lucas	13	9.4	(D)	(D)	2	28.2	(D)	(D)
Lyon	21	6.6	12 889	2.0	12	8.3	(D)	(D)
Madison	27	5.9	(D)	(D)	5	16.2	(D)	(D)
Mahaska	40	4.6	94 848	5.3	6	13.0	1 197	17.0
Marion	35	5.0	44 542	.4	6	13.9	794	14.6
Marshall	19	6.2	(D)	(D)	6	12.4	840	10.4
Mills	11	9.6	224	10.7	–	–	–	–
Mitchell	33	4.9	293 652	.5	8	9.7	(D)	(D)
Monona	14	9.3	521	12.1	1	35.7	(D)	(D)
Monroe	26	6.5	813	9.9	–	–	–	–
Montgomery	10	9.2	483	12.4	1	–	(D)	(D)
Muscatine	30	5.6	1 861	9.5	5	11.9	892	18.1
O'Brien	17	6.6	(D)	(D)	6	9.3	(D)	(D)
Osceola	11	9.0	(D)	(D)	5	13.3	1 300	20.5
Page	26	5.9	2 000	14.0	4	18.2	(D)	(D)
Palo Alto	9	9.9	566	15.8	5	12.4	(D)	(D)
Plymouth	46	4.7	3 658	6.9	9	10.6	2 450	14.0
Pocahontas	17	7.3	(D)	(D)	8	9.8	(D)	(D)
Polk	21	7.2	854	10.0	6	17.2	4 951	41.4
Pottawattamie	38	5.5	1 867	6.9	3	19.4	685	16.5
Poweshiek	17	7.8	(D)	(D)	4	16.9	1 000	16.9
Ringgold	14	8.9	286	10.4	6	11.1	(D)	(D)
Sac	29	4.8	111 400	.2	4	11.5	355	4.5
Scott	28	6.0	2 545	9.9	7	10.8	1 835	19.1
Shelby	27	5.5	1 407	5.2	7	10.4	(D)	(D)
Sioux	38	4.7	530 976	1.7	20	6.2	2 245 745	.1
Story	29	4.2	43 795	2.3	9	11.5	2 455	10.2
Tama	58	4.1	47 107	15.9	17	7.9	7 566	16.9
Taylor	25	5.8	853	8.8	7	8.8	(D)	(D)
Union	12	10.0	684	15.7	5	8.6	1 054 320	(L)
Van Buren	34	6.9	5 201	35.4	1	43.6	(D)	(D)
Wapello	18	6.5	(D)	(D)	6	11.6	617	14.2
Warren	33	5.5	7 479	2.2	5	14.8	929	21.5
Washington	52	4.3	201 966	1.9	17	8.1	7 086	13.6
Wayne	15	7.9	256	10.5	–	–	–	–
Webster	18	6.2	(D)	(D)	6	10.7	2 423	21.7
Winnebago	14	7.3	1 223	19.5	12	8.6	3 657	19.9
Winneshiek	57	3.8	255 098	.1	5	13.0	(D)	(D)
Woodbury	31	6.3	1 165	8.8	4	16.1	3 690	19.7
Worth	12	9.1	11 360	16.9	6	16.3	2 835	21.0
Wright	13	9.0	(D)	(D)	9	10.6	2 880	13.3

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)
Iowa	72 756	1.1	12 512 815	.8	1 754 149 889	.8	9 575	1.0	260 770	.8	4 096 921	.7
Adair	677	1.3	102 811	1.1	13 502 866	1.1	63	3.1	1 577	2.3	22 203	2.3
Adams	451	1.5	60 843	1.4	7 769 782	1.4	44	3.8	1 174	2.4	16 845	2.5
Allamakee	689	1.5	70 111	1.3	8 601 752	1.3	324	1.9	7 290	2.0	113 011	2.1
Appanoose	396	3.3	30 657	3.1	3 441 291	3.1	42	5.7	865	4.7	9 730	5.1
Audubon	575	1.2	110 355	1.0	15 543 035	.9	39	3.4	948	2.9	13 304	2.3
Benton	1 036	1.1	178 600	.9	24 399 018	.9	110	2.3	3 016	1.6	49 036	1.6
Black Hawk	849	.8	151 856	.7	22 483 724	.7	84	2.5	1 626	2.3	29 586	2.0
Boone	724	.9	144 447	.8	22 148 282	.8	35	3.1	908	2.8	13 511	2.3
Bremer	835	1.2	117 562	1.1	17 369 527	1.1	173	2.1	3 533	2.4	59 851	2.6
Buchanan	975	1.1	176 119	.9	25 272 487	.9	152	2.2	2 810	2.6	44 910	2.9
Buena Vista	818	.9	154 306	.8	22 561 472	.8	64	2.5	2 865	2.2	54 321	2.0
Butler	889	.8	150 633	.8	21 966 616	.8	102	2.2	2 042	1.9	35 879	1.8
Calhoun	767	1.1	153 415	1.0	24 359 259	.9	48	3.4	2 071	2.0	33 107	2.6
Carroll	986	1.1	160 115	.9	23 451 686	.9	98	2.2	4 280	1.6	70 737	1.7
Cass	721	1.2	132 785	1.0	18 520 747	1.0	74	2.8	1 765	3.1	26 747	3.8
Cedar	849	1.1	169 694	1.0	24 009 947	1.0	91	2.5	1 879	2.3	28 555	2.2
Cerro Gordo	681	1.0	161 220	.9	22 088 779	.9	42	4.0	888	4.1	12 597	4.5
Cherokee	820	1.1	140 647	.9	20 294 392	.9	155	1.8	4 797	2.0	79 866	2.2
Chickasaw	781	1.3	128 632	1.1	17 237 293	1.0	189	2.1	4 661	1.7	77 318	1.8

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)	
Clarke	382	1.5	35 482	1.2	4 017 143	1.2	42	3.5	1 314	3.4	18 110	3.9	
Clay	652	1.0	134 837	.9	18 952 200	.9	55	2.9	2 463	3.9	48 858	3.7	
Clinton	1 211	.9	162 965	.8	20 954 330	.8	400	1.3	8 835	1.4	120 117	1.4	
Crawford	1 073	1.2	182 501	1.0	24 468 631	1.0	169	1.9	5 349	1.7	92 037	1.5	
	944	1.4	163 348	1.1	22 533 198	1.1	73	2.4	2 308	3.8	27 371	1.8	
Dallas	661	1.1	133 558	.9	19 348 871	.9	34	3.8	1 177	5.9	15 216	4.8	
Davis	478	3.3	43 091	2.4	5 304 929	2.4	67	4.7	1 551	3.9	22 403	3.8	
Decatur	293	1.7	27 998	1.6	3 382 919	1.6	44	3.5	1 571	2.2	23 692	1.8	
Delaware	1 134	1.1	176 359	.9	23 820 937	.9	405	1.5	9 286	1.5	138 816	1.5	
Des Moines	491	1.2	72 638	1.1	10 239 175	1.2	51	2.9	1 223	2.9	20 250	2.8	
Dickinson	425	1.2	82 755	1.1	10 687 952	1.1	59	2.7	2 575	1.7	40 950	1.4	
Dubuque	1 257	1.3	124 324	1.1	15 917 137	1.1	463	1.5	11 264	1.3	167 410	1.3	
Emmet	467	1.0	99 213	.9	13 959 038	.9	36	3.7	881	2.9	15 014	3.1	
Fayette	1 140	1.1	181 493	1.0	24 968 718	1.0	326	1.7	8 093	1.4	134 984	1.6	
Floyd	697	1.2	134 445	1.1	18 442 786	1.1	81	2.9	2 056	2.6	32 160	2.2	
Franklin	785	1.2	172 740	1.0	26 089 978	1.0	59	3.1	1 578	1.8	32 248	1.7	
Fremont	474	1.1	116 365	.8	17 164 062	.8	13	4.9	274	3.3	5 185	3.1	
Greene	710	1.0	155 469	.8	25 097 189	.8	27	3.3	1 052	1.2	20 698	1.5	
Grundy	700	.9	157 377	.7	24 257 243	.7	37	3.2	1 065	3.5	19 193	3.4	
Guthrie	658	1.3	108 494	1.1	15 136 795	1.1	43	3.1	954	3.1	12 529	3.6	
Hamilton	729	.8	157 833	.8	24 820 722	.7	12	6.0	526	5.7	9 770	4.2	
Hancock	812	.9	170 059	.9	24 434 863	.9	58	3.0	1 209	2.8	21 879	2.9	
Hardin	792	.9	165 980	.8	26 165 456	.8	62	2.5	1 266	2.4	25 169	4.2	
Harrison	714	1.3	160 373	1.1	23 697 759	1.0	53	3.4	1 614	1.8	26 501	1.6	
Henry	556	1.3	88 721	1.3	12 409 536	1.3	45	3.8	1 179	3.8	22 158	2.8	
Howard	676	1.4	110 243	1.2	12 841 876	1.2	162	2.2	4 153	2.1	57 293	2.0	
Humboldt	588	.8	132 946	.8	21 056 659	.8	36	3.3	1 202	2.2	23 068	2.4	
Ida	591	1.4	119 617	1.1	17 025 671	1.1	56	2.8	2 228	2.9	29 356	3.4	
Iowa	735	1.1	126 689	.9	15 437 381	1.0	111	2.1	3 357	2.4	43 433	2.5	
Jackson	902	1.5	98 101	1.4	11 095 970	1.4	240	2.1	5 752	2.3	75 012	2.2	
Jasper	981	1.1	172 180	.9	24 563 637	.9	77	2.6	2 344	3.4	40 860	4.3	
Jefferson	485	1.5	69 702	1.3	9 295 383	1.3	50	3.5	1 811	6.1	24 434	7.0	
Johnson	880	1.2	113 861	1.1	14 789 964	1.1	154	2.2	2 614	2.1	40 762	2.2	
Jones	830	1.1	144 168	1.1	18 741 223	1.1	183	1.9	5 661	1.6	83 447	1.6	
Keokuk	695	1.3	114 181	1.1	14 649 702	1.1	57	3.1	1 488	2.3	20 840	2.8	
Kossuth	1 435	1.0	302 923	.9	45 409 171	.9	96	2.5	2 813	1.7	57 024	1.8	
Lee	593	1.3	83 928	1.2	11 753 910	1.1	96	2.5	2 423	3.0	46 179	5.0	
Linn	1 038	1.0	142 449	.9	19 338 493	.9	164	2.0	3 783	1.8	58 763	1.7	
Louisa	434	1.2	80 765	1.1	10 802 648	1.1	32	4.7	500	4.8	6 731	4.6	
Lucas	298	2.9	27 861	2.6	3 335 836	2.7	43	5.0	1 317	4.6	15 914	3.8	
Lyon	923	1.6	144 479	1.3	18 493 448	1.3	251	2.0	7 815	2.0	129 333	3.6	
Madison	660	1.3	74 784	1.1	10 045 059	1.1	55	3.0	1 795	2.9	26 039	3.7	
Mahaska	800	1.1	123 143	1.0	17 119 766	.9	127	2.2	2 970	2.3	45 842	2.0	
Marion	667	1.4	79 467	1.3	10 441 414	1.4	56	3.5	1 276	4.0	18 194	3.7	
Marshall	745	.9	149 890	.8	22 158 940	.8	56	2.6	1 788	2.1	29 483	2.3	
Mills	424	1.2	99 293	1.0	14 904 460	1.0	9	6.8	418	2.1	8 145	2.1	
Mitchell	667	1.1	126 071	.9	16 498 024	.9	181	1.9	6 873	1.8	110 093	1.7	
Monona	647	1.3	161 113	.9	22 148 419	.9	74	3.1	2 683	3.7	44 346	4.3	
Monroe	335	1.8	27 399	1.7	3 039 084	1.8	64	3.0	2 321	1.8	31 783	1.6	
Montgomery	494	1.3	84 282	1.2	12 176 184	1.2	22	4.1	760	1.7	13 334	2.0	
Muscatine	589	1.2	92 569	1.1	12 401 552	1.1	60	3.3	1 738	2.3	29 186	2.2	
O'Brien	948	1.2	156 380	1.0	21 602 540	1.0	97	2.4	2 729	2.1	47 676	2.1	
Osceola	619	1.5	110 386	1.3	14 268 380	1.3	71	3.1	2 167	2.1	34 279	2.2	
Page	699	1.2	100 327	1.1	14 180 949	1.1	42	3.6	1 065	5.4	16 915	6.6	
Palo Alto	725	1.0	154 748	.9	22 770 028	.9	49	3.5	1 132	3.7	22 998	6.5	
Plymouth	1 232	1.3	223 661	1.0	30 908 110	1.0	140	2.0	5 054	1.6	73 268	1.4	
Pocahontas	829	1.0	165 258	.9	25 063 386	.9	44	3.4	1 366	2.5	24 019	1.8	
Polk	534	1.3	97 081	1.1	14 878 392	1.1	22	5.0	551	4.2	9 500	5.1	
Pottawattamie	1 128	1.3	242 311	1.0	36 053 220	1.0	124	2.1	3 052	1.9	56 378	2.4	
Poweshiek	712	1.3	122 666	1.2	15 842 341	1.2	74	2.8	1 976	2.0	33 983	2.3	
Ringgold	419	1.5	47 187	1.3	5 502 285	1.2	33	4.4	1 056	3.6	12 673	4.6	
Sac	800	1.2	154 463	.9	22 931 866	.9	63	2.8	2 166	2.8	38 459	2.8	
Scott	695	1.2	128 200	1.1	18 175 509	1.0	83	2.8	2 326	2.5	38 082	2.3	
Shelby	897	1.3	175 692	1.1	24 218 298	1.1	59	3.3	1 444	2.9	19 594	3.3	
Sioux	1 473	1.2	237 825	1.0	32 900 770	1.0	310	1.4	11 635	.9	189 136	.8	
Story	784	.9	151 920	.8	23 212 655	.8	41	3.1	1 398	2.1	27 338	2.2	
Tama	971	1.1	174 699	1.0	24 071 148	1.0	87	2.6	2 734	3.3	38 859	3.8	
Taylor	528	1.4	66 630	1.2	8 014 094	1.2	26	4.2	547	2.2	6 327	2.0	
Union	437	1.5	49 369	1.4	6 143 927	1.4	32	4.2	730	3.3	8 975	3.0	
Van Buren	463	3.1	44 565	2.8	5 768 183	2.8	65	5.0	1 034	5.2	13 811	5.1	
Wapello	406	1.7	51 736	1.7	6 815 170	1.6	27	4.3	1 109	3.9	17 934	4.7	
Warren	694	1.3	79 661	1.2	10 284 074	1.2	71	3.1	1 997	2.3	23 078	1.8	
Washington	812	1.2	127 681	1.0	16 655 738	1.0	89	3.0	1 726	3.5	23 814	3.8	
Wayne	435	1.4	52 001	1.2	6 003 312	1.2	44	3.8	1 386	8.1	16 988	6.9	
Webster	883	1.0	181 453	.8	28 419 824	.8	26	4.2	967	7.1	18 130	6.6	
Winnebago	530	1.2	121 575	1.1	17 000 885	1.1	44	4.1	1 064	3.6	20 197	3.5	
Winnesiek	1 158	1.6	121 761	1.3	14 463 240	1.3	512	1.8	12 075	1.7	179 507	1.7	
Woodbury	859	1.3	192 504	1.0	26 663 576	1.0	80	2.9	3 240	5.6	48 050	4.9	
Worth	504	1.0	108 012	.9	14 258 316	.9	52	3.0	1 183	2.2	18 747	2.1	
Wright	716	.7	167 733	.7	26 222 277	.6	13	4.4	320	1.9	5 680	2.2	

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	Selected crops harvested – Con.											
	Wheat for grain					Oats for grain						
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Iowa	970	1.4	30 072	1.4	1 183 472	1.4	17 854	1.1	368 086	1.0	23 246 559	1.0
Adair	7	10.8	157	15.9	3 498	15.6	225	2.0	5 205	2.1	301 383	2.1
Adams	4	11.1	(D)	(D)	(D)	(D)	99	3.2	2 221	3.7	113 333	3.8
Allamakee	5	14.3	80	17.5	2 984	20.4	475	1.7	11 548	1.6	616 645	1.6
Appanoose	9	9.8	765	2.0	24 870	1.0	47	5.7	1 139	6.8	56 604	9.2
Audubon	2	15.1	(D)	(D)	(D)	(D)	173	2.0	3 579	2.1	267 379	2.2
Benton	5	12.7	108	14.3	5 177	20.3	314	1.6	6 192	1.9	385 668	2.0
Black Hawk	4	9.6	100	10.5	5 195	13.1	164	1.9	2 978	2.3	195 317	2.4
Boone	9	6.4	264	8.2	11 416	9.6	94	2.5	1 880	3.4	120 770	3.3
Bremer	2	14.5	(D)	(D)	(D)	(D)	240	1.9	4 205	2.1	288 626	2.1
Buchanan	2	13.3	(D)	(D)	(D)	(D)	293	1.7	4 780	1.8	318 318	1.8
Buena Vista	2	–	–	–	–	–	137	2.0	2 352	3.2	188 218	2.8
Butler	3	–	110	–	4 100	–	255	1.5	4 571	1.4	313 926	1.5
Calhoun	2	27.5	(D)	(D)	(D)	(D)	108	2.6	2 337	3.1	185 505	2.9
Carroll	2	–	(D)	(D)	(D)	(D)	284	1.7	4 933	2.0	408 920	2.0
Cass	6	11.5	141	14.8	4 690	14.8	159	2.2	2 846	2.4	161 654	2.4
Cedar	10	7.3	184	9.1	8 170	8.6	238	1.7	3 859	1.9	249 854	1.9
Cerro Gordo	1	–	(D)	(D)	(D)	(D)	126	2.2	2 473	2.6	171 401	2.4
Cherokee	2	19.7	(D)	(D)	(D)	(D)	138	2.3	2 239	2.4	195 340	2.4
Chickasaw	7	9.5	214	8.6	8 495	11.4	263	1.9	5 061	2.1	309 788	2.0
Clarke	3	19.8	25	19.2	(D)	(D)	106	2.5	2 932	2.5	115 244	2.5
Clay	1	26.9	(D)	(D)	(D)	(D)	46	3.4	1 052	2.4	81 046	2.5
Clayton	12	6.4	175	5.3	7 435	8.6	656	1.1	14 521	1.2	881 290	1.1
Clinton	11	7.2	231	4.4	8 740	6.3	326	1.8	5 229	2.1	306 125	2.2
Crawford	7	10.7	209	16.8	8 278	16.4	318	1.8	7 373	1.9	541 308	2.0
Dallas	8	8.8	223	9.1	10 362	9.2	58	3.5	1 210	4.4	77 140	4.1
Davis	32	5.9	937	5.1	35 489	4.1	109	4.8	1 776	4.6	79 201	4.7
Decatur	2	15.1	(D)	(D)	(D)	(D)	21	6.7	4 452	4.6	24 880	4.3
Delaware	5	10.6	157	10.9	7 235	11.5	502	1.4	10 952	1.5	664 701	1.5
Des Moines	40	4.5	1 112	5.1	51 010	4.9	49	3.9	909	3.9	40 532	3.9
Dickinson	6	13.1	148	18.1	8 280	17.8	51	3.7	1 122	3.7	92 038	4.0
Dubuque	16	6.6	298	8.1	12 138	8.5	741	1.5	16 766	1.4	917 340	1.4
Emmet	–	–	–	–	–	–	40	3.9	489	4.1	40 128	4.0
Fayette	4	13.4	34	15.4	980	18.7	491	1.5	10 446	1.7	661 640	1.6
Floyd	–	–	–	–	–	–	149	2.3	2 638	2.5	180 420	2.6
Franklin	3	9.9	(D)	(D)	(D)	(D)	121	2.5	2 403	3.0	189 891	3.4
Fremont	18	3.8	1 304	4.1	41 717	4.9	12	7.0	349	4.1	22 706	4.1
Greene	4	9.1	63	13.8	3 294	13.3	89	2.8	1 372	3.2	102 203	3.4
Grundy	4	15.1	(D)	(D)	1 173	17.0	138	2.0	2 193	2.5	164 046	2.1
Guthrie	4	–	185	–	4 350	–	171	2.0	3 347	2.3	191 294	2.3
Hamilton	1	–	(D)	(D)	(D)	(D)	64	3.4	1 018	3.6	74 972	4.0
Hancock	3	19.3	24	19.3	1 420	19.3	132	2.0	2 159	2.1	173 059	2.0
Hardin	–	–	–	–	–	–	87	2.3	1 511	2.7	107 508	2.9
Harrison	20	6.5	494	8.6	17 074	9.5	82	3.2	1 868	3.7	121 431	3.6
Henry	21	5.3	1 013	6.9	46 440	6.0	74	3.4	1 201	3.8	68 066	4.2
Howard	3	14.0	(D)	(D)	(D)	(D)	243	2.0	5 158	2.2	316 453	2.3
Humboldt	1	23.7	(D)	(D)	(D)	(D)	67	2.7	1 181	3.7	91 067	3.7
Ida	7	6.7	100	5.0	5 030	5.1	179	1.9	3 512	2.1	291 997	2.2
Iowa	7	8.1	97	8.4	3 511	8.7	259	1.8	6 159	1.8	338 214	2.0
Jackson	21	5.6	861	3.0	29 691	4.1	491	1.8	11 068	1.8	577 991	1.8
Jasper	7	9.5	199	11.6	5 900	11.3	313	1.5	7 042	1.8	447 956	1.7
Jefferson	48	3.8	1 744	6.6	50 461	3.5	113	2.8	2 366	2.7	106 731	3.1
Johnson	18	6.1	838	5.6	41 651	6.2	352	1.6	7 917	1.7	449 934	1.8
Jones	6	9.3	133	8.0	6 380	9.7	341	1.6	7 599	1.9	415 520	1.5
Keokuk	30	4.7	826	3.4	39 213	3.8	138	2.3	2 575	2.2	139 713	2.3
Kossuth	1	27.2	(D)	(D)	(D)	(D)	216	1.9	3 184	2.5	254 803	2.2
Lee	131	2.4	3 282	2.5	129 937	2.2	79	3.2	1 146	4.4	56 260	5.5
Linn	6	7.3	153	10.5	6 545	12.0	331	1.5	6 810	1.8	401 075	1.9
Louisa	18	6.0	606	7.0	27 881	9.1	55	3.8	725	4.3	37 971	4.3
Lucas	7	9.9	82	11.7	3 230	11.2	76	4.2	2 501	4.8	134 749	4.9
Lyon	3	11.4	65	5.3	(D)	(D)	247	2.1	4 689	2.2	375 054	2.2
Madison	2	18.8	(D)	(D)	(D)	(D)	114	2.2	2 078	2.5	124 046	2.4
Mahaska	4	14.7	91	18.3	(D)	(D)	222	1.9	3 902	2.2	227 887	2.3
Marion	7	9.5	254	12.0	8 495	12.3	162	2.3	3 250	2.4	188 947	2.4
Marshall	6	7.7	80	4.1	3 390	3.3	126	2.1	2 356	2.7	153 534	2.9
Mills	12	8.8	309	7.0	9 745	7.2	38	4.1	939	4.0	57 241	3.7
Mitchell	2	19.7	(D)	(D)	(D)	(D)	208	1.7	4 902	2.2	332 992	2.3
Monona	19	5.9	1 214	5.3	43 068	4.7	97	2.9	2 392	2.1	183 299	2.1
Monroe	8	7.5	346	5.7	19 105	5.7	46	3.9	1 279	2.4	60 446	2.8
Montgomery	5	5.4	383	.9	6 690	1.7	61	3.5	1 196	3.7	68 673	3.8
Muscatine	9	7.9	199	8.6	6 767	7.4	135	2.5	2 637	2.9	148 021	3.0
O'Brien	–	–	–	–	–	–	147	2.3	1 981	2.2	167 645	2.1
Osceola	3	15.5	293	20.5	12 230	20.4	107	2.8	1 671	2.8	151 919	2.8
Page	28	4.6	906	4.1	22 892	3.6	82	2.9	1 874	3.2	104 535	3.3
Palo Alto	1	–	(D)	(D)	(D)	(D)	101	2.6	1 752	3.2	142 614	3.0
Plymouth	7	9.2	379	13.1	18 352	18.8	371	1.7	9 704	1.6	720 220	1.6
Pocahontas	–	–	–	–	–	–	82	2.6	1 414	3.4	112 033	3.4
Polk	3	–	81	–	2 675	–	63	3.3	1 035	2.9	63 054	2.7
Pottawattamie	14	7.2	287	7.7	9 927	6.5	176	2.3	4 069	2.4	280 524	2.5
Poweshiek	1	30.1	(D)	(D)	(D)	(D)	284	1.8	7 158	2.0	390 718	2.0

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					Oats for grain						
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Ringgold	11	8.4	445	11.5	15 877	17.4	83	3.0	2 919	2.1	135 375	2.8
Sac	11	6.8	264	8.5	10 286	7.4	182	1.9	3 597	2.2	304 168	2.2
Scott	5	12.5	107	8.7	3 922	8.2	162	2.3	2 482	2.5	166 606	2.4
Shelby	2	17.2	(D)	(D)	(D)	(D)	298	1.7	6 128	2.0	452 754	2.0
Sioux	3	11.0	167	6.3	8 482	6.3	289	1.7	6 476	1.8	532 378	1.8
Story	9	6.2	167	4.4	11 323	2.8	68	3.0	901	3.2	48 203	3.0
Tama	4	15.2	153	17.1	6 498	18.3	249	1.9	4 545	1.9	251 471	2.0
Taylor	15	5.3	543	5.4	15 372	6.4	86	3.1	2 088	3.5	102 207	3.5
Union	3	17.4	96	18.0	4 132	17.4	122	2.6	3 395	3.5	188 747	3.0
Van Buren	73	5.1	1 510	6.0	65 243	6.6	98	4.6	1 612	4.7	68 263	5.1
Wapello	11	6.8	676	20.4	18 398	8.1	53	3.7	1 042	3.6	58 079	3.6
Warren	5	9.6	62	12.5	2 780	13.4	103	2.7	1 838	3.0	87 381	2.7
Washington	44	3.8	900	4.8	42 135	5.8	217	2.1	4 421	2.2	232 375	2.3
Wayne	6	9.1	580	5.1	33 820	2.6	58	3.3	1 579	3.8	64 174	4.2
Webster	5	11.9	27	13.4	1 026	13.0	96	2.6	2 085	3.3	133 138	3.5
Winnebago	1	—	(D)	(D)	(D)	(D)	85	3.0	1 220	5.0	87 876	3.2
Winneshiek	5	9.8	84	6.5	3 795	4.2	673	1.7	15 039	1.8	816 162	1.7
Woodbury	5	10.7	375	2.6	10 040	3.4	176	2.2	5 415	2.5	461 645	2.6
Worth	—	—	—	—	—	—	119	2.2	1 733	3.1	122 622	3.0
Wright	—	—	—	—	—	—	50	3.1	664	3.7	52 241	3.4
Geographic area	Selected crops harvested —Con.											
	Soybeans for beans					Hay —alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)						
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Iowa	59 945	1.1	8 243 067	.8	352 590 997	.8	44 768	1.1	1 762 425	1.1	5 107 237	1.1
Adair	580	1.4	65 152	1.2	2 643 985	1.2	578	1.4	32 256	1.4	100 424	1.4
Adams	388	1.6	42 275	1.6	1 662 940	1.6	405	1.6	20 921	2.1	51 485	2.0
Allamakee	115	2.8	4 327	3.0	162 674	2.9	745	1.5	54 540	1.4	171 742	1.4
Appanoose	337	3.4	24 881	3.0	910 574	2.9	614	2.9	42 066	3.4	92 669	3.4
Audubon	521	1.3	73 681	1.1	3 238 961	1.0	354	1.5	12 347	1.9	38 705	1.8
Benton	941	1.1	135 331	1.0	5 835 440	1.0	585	1.3	19 191	1.7	59 184	1.6
Black Hawk	733	.9	94 301	.8	4 231 089	.8	376	1.3	8 577	1.7	20 480	2.0
Boone	667	1.0	126 604	.9	5 622 987	.8	328	1.4	6 579	1.8	17 766	2.3
Bremer	688	1.3	59 245	1.3	2 694 201	1.3	468	1.5	13 908	1.8	40 286	1.9
Buchanan	776	1.2	79 520	1.0	3 486 801	1.0	526	1.4	14 789	1.6	39 252	1.8
Buena Vista	789	.9	133 787	.8	6 060 492	.8	243	1.5	4 935	2.6	15 549	2.2
Butler	773	.9	88 938	.9	3 984 848	.9	434	1.2	10 721	1.5	28 472	1.5
Calhoun	743	1.1	145 174	1.0	6 444 799	1.0	213	1.9	4 213	3.5	12 105	2.8
Carroll	932	1.1	122 952	1.0	5 511 668	1.0	487	1.4	13 976	1.2	48 903	1.2
Cass	652	1.2	89 909	1.1	3 706 504	1.1	504	1.3	21 545	1.4	63 361	1.3
Cedar	746	1.1	83 827	1.1	3 682 418	1.1	504	1.3	13 924	1.5	44 909	1.6
Cerro Gordo	609	1.0	97 497	1.0	4 003 973	1.0	201	1.8	4 690	1.9	11 580	2.3
Cherokee	784	1.1	108 195	1.0	4 915 902	1.0	381	1.4	10 179	1.5	32 848	1.6
Chickasaw	628	1.4	66 195	1.2	2 702 009	1.1	472	1.5	14 891	1.9	39 810	1.9
Clarke	301	1.6	22 815	1.4	796 250	1.4	477	1.4	31 549	1.4	76 672	1.4
Clay	623	1.0	121 194	.9	5 232 764	.9	247	1.7	4 806	1.8	14 490	1.8
Clayton	211	1.8	17 427	2.1	758 889	2.1	1 153	.9	69 924	1.0	229 879	1.1
Clinton	796	1.3	76 478	1.2	3 463 361	1.3	643	1.4	18 956	1.7	62 055	1.8
Crawford	836	1.4	101 847	1.2	4 346 150	1.2	680	1.5	22 381	1.7	71 769	1.8
Dallas	608	1.2	106 710	1.0	4 564 019	1.0	376	1.4	10 108	2.0	27 974	2.9
Davis	332	3.4	27 567	2.6	1 112 304	2.6	671	3.0	41 289	3.1	98 689	3.0
Decatur	235	1.9	21 608	1.8	729 106	1.9	445	1.4	35 511	1.4	78 702	1.4
Delaware	469	1.4	28 857	1.5	1 266 958	1.4	854	1.2	40 829	1.3	127 794	1.4
Des Moines	455	1.3	58 167	1.2	2 572 017	1.2	304	1.5	8 516	1.4	24 703	1.9
Dickinson	409	1.2	73 268	1.1	2 919 157	1.1	190	1.9	6 686	1.8	20 529	1.7
Dubuque	130	2.3	5 817	2.1	228 774	2.1	1 200	1.3	73 580	1.2	258 710	1.3
Emmet	435	1.1	85 631	1.0	3 590 459	1.0	149	2.0	3 417	2.6	9 145	2.8
Fayette	713	1.3	71 972	1.2	3 009 908	1.3	739	1.3	34 176	1.4	110 947	1.5
Floyd	638	1.2	92 524	1.2	3 841 602	1.2	310	1.7	6 563	2.0	17 298	2.5
Franklin	730	1.2	115 613	1.1	4 990 597	1.0	252	1.8	6 915	2.7	19 066	3.1
Fremont	466	1.1	107 307	.8	4 517 695	.8	201	1.8	5 766	1.6	17 221	1.7
Greene	697	1.0	145 964	.8	6 742 552	.8	252	1.6	5 717	1.5	16 614	1.5
Grundy	678	.9	116 583	.8	5 501 079	.8	263	1.5	5 733	1.6	17 068	2.0
Guthrie	587	1.3	77 719	1.2	3 201 502	1.2	486	1.4	20 026	1.8	53 318	1.5
Hamilton	695	.9	131 490	.8	6 051 647	.8	164	1.9	2 324	2.5	5 793	2.9
Hancock	742	1.0	113 878	1.0	4 586 171	1.0	229	1.7	5 083	3.1	14 903	2.9
Hardin	712	.9	108 001	.8	4 924 807	.8	293	1.5	5 326	1.6	15 342	2.0
Harrison	673	1.3	121 278	1.1	5 291 972	1.1	388	1.7	11 462	1.9	33 506	1.8
Henry	481	1.4	58 009	1.3	2 587 985	1.3	368	1.6	9 888	2.1	26 545	2.3
Howard	544	1.5	66 955	1.3	2 223 899	1.3	405	1.6	14 833	1.7	42 997	1.8
Humboldt	573	.9	112 373	.8	5 104 867	.8	139	1.9	3 031	2.1	8 364	2.3
Ida	561	1.4	80 300	1.2	3 480 110	1.2	347	1.6	10 393	1.6	37 077	1.8
Iowa	575	1.2	50 270	1.0	1 974 300	1.1	578	1.3	25 048	1.2	70 457	1.3
Jackson	193	2.2	8 890	2.5	361 996	2.5	900	1.5	50 651	1.6	159 170	1.7

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	Selected crops harvested – Con.											
	Soybeans for beans					Hay – alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)						
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Jasper	845	1.1	104 081	.9	4 646 848	.9	734	1.1	25 565	1.3	75 241	1.4
Jefferson	438	1.6	52 899	1.4	2 231 406	1.4	414	1.6	18 194	1.8	45 079	2.0
Johnson	634	1.3	57 227	1.3	2 318 277	1.2	698	1.3	25 554	1.4	75 427	1.5
Jones	514	1.4	45 045	1.3	1 902 785	1.3	652	1.2	26 799	1.3	86 684	1.3
Keokuk	592	1.3	61 882	1.2	2 508 961	1.2	455	1.5	18 708	1.6	51 507	1.7
Kossuth	1 329	1.0	226 397	.9	9 445 398	.9	376	1.6	7 408	2.0	22 093	2.0
Lee	537	1.3	60 541	1.2	2 644 265	1.2	485	1.4	18 918	2.5	49 966	2.0
Linn	817	1.1	89 318	.9	3 755 015	1.0	774	1.1	22 965	1.3	61 308	1.3
Louisa	396	1.3	55 621	1.2	2 358 933	1.3	219	1.8	5 691	3.5	16 604	3.3
Lucas	233	3.0	18 711	2.8	702 313	2.8	452	2.6	28 708	2.7	66 259	2.7
Lyon	882	1.6	112 706	1.5	4 481 809	1.4	534	1.7	13 329	1.7	46 086	1.7
Madison	556	1.3	54 995	1.1	2 329 063	1.1	627	1.2	26 972	1.3	77 089	1.3
Mahaska	700	1.2	78 645	1.1	3 312 531	1.1	531	1.4	17 376	1.6	52 221	1.7
Marion	582	1.5	58 986	1.4	2 470 255	1.4	545	1.5	22 145	1.6	60 300	1.7
Marshall	624	1.0	83 474	.9	3 862 406	.9	416	1.2	11 109	1.4	30 862	1.5
Mills	410	1.3	84 285	1.1	3 590 627	1.1	221	1.9	5 680	1.9	15 154	2.3
Mitchell	563	1.1	75 467	1.0	2 986 614	1.0	296	1.6	8 452	1.7	23 226	1.8
Monona	563	1.4	110 765	1.0	4 751 636	1.0	279	1.9	10 210	1.9	32 491	1.7
Monroe	255	1.9	15 675	2.1	547 125	2.2	495	1.5	29 977	1.5	77 319	1.6
Montgomery	456	1.3	71 154	1.2	2 991 085	1.3	322	1.5	11 970	1.9	35 382	2.2
Muscatine	487	1.3	56 839	1.2	2 305 151	1.2	359	1.5	11 130	1.9	34 083	1.8
O'Brien	935	1.2	145 046	1.1	6 237 170	1.0	353	1.6	5 967	1.8	19 746	1.9
Osceola	621	1.5	107 196	1.3	4 210 212	1.3	247	2.0	4 493	2.5	14 436	2.8
Page	672	1.2	89 871	1.2	3 778 184	1.2	505	1.4	17 183	1.6	44 516	1.6
Palo Alto	694	1.1	129 639	1.0	5 611 434	1.0	206	1.9	3 949	2.2	11 149	2.1
Plymouth	1 123	1.3	151 940	1.1	6 697 405	1.1	650	1.4	16 324	1.3	60 506	1.4
Pocahontas	818	1.0	152 808	.9	6 644 547	.9	176	2.0	3 032	2.9	8 486	2.5
Polk	487	1.4	81 765	1.1	3 571 654	1.1	283	1.9	6 748	2.2	19 504	2.6
Pottawattamie	1 016	1.3	168 779	1.0	7 317 541	1.0	656	1.4	18 754	1.5	58 993	1.5
Poweshiek	622	1.4	78 149	1.2	3 270 771	1.2	589	1.4	26 990	1.4	85 405	1.5
Ringgold	356	1.6	33 620	1.4	1 201 579	1.3	464	1.5	36 511	1.5	92 935	1.5
Sac	762	1.2	126 791	1.0	5 586 906	1.0	349	1.6	9 973	1.5	32 159	1.8
Scott	562	1.3	50 011	1.2	2 304 683	1.2	398	1.5	9 461	1.7	30 751	2.0
Shelby	806	1.3	95 989	1.2	4 131 874	1.2	491	1.4	14 662	1.6	50 286	1.6
Sioux	1 287	1.3	148 868	1.2	6 583 633	1.2	645	1.3	16 503	1.4	61 828	1.5
Story	737	.9	125 600	.8	5 723 470	.8	300	1.5	6 382	2.2	16 971	2.1
Tama	840	1.2	100 454	1.1	4 257 560	1.1	644	1.3	19 964	1.4	57 684	1.5
Taylor	464	1.5	51 422	1.3	1 917 682	1.3	428	1.5	23 075	1.7	55 763	1.8
Union	363	1.6	33 191	1.5	1 270 116	1.6	438	1.5	25 851	1.5	71 746	1.6
Van Buren	381	3.2	36 824	2.9	1 511 190	2.9	489	3.0	24 723	3.0	56 798	3.2
Wapello	339	1.8	42 352	1.7	1 721 757	1.7	435	1.6	17 645	1.9	37 947	2.1
Warren	593	1.4	56 485	1.4	2 275 847	1.3	726	1.3	29 547	1.5	81 734	1.6
Washington	705	1.2	77 777	1.1	3 390 420	1.1	495	1.5	17 016	1.6	47 238	1.7
Wayne	355	1.5	37 444	1.4	1 294 169	1.4	506	1.3	37 879	1.5	87 450	1.6
Webster	863	1.0	173 398	.9	7 663 843	.8	219	1.8	3 417	2.4	10 370	2.8
Winnebago	449	1.3	71 897	1.2	2 794 128	1.1	149	2.2	2 977	3.2	7 828	3.7
Winneshiek	348	1.9	17 569	1.9	609 512	1.8	1 081	1.6	62 309	1.5	192 850	1.6
Woodbury	690	1.4	97 748	1.2	4 243 826	1.2	457	1.5	13 051	1.6	42 452	1.6
Worth	464	1.0	73 918	.9	2 875 019	.9	237	1.6	4 300	2.0	12 723	2.8
Wright	680	.8	143 500	.7	6 277 200	.7	147	1.9	2 144	2.6	6 275	2.9

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	96 543	1.1	6 338	19.7	6.2	1.2
Land in farms ----- acres	31 346 565	.9	286 307	22.6	.9	.2
Average size of farm ----- acres	324.7	.3	45.2	21.7	(X)	(X)
Farms by size:						
Less than 10 acres -----	7 129	1.2	1 791	31.4	20.1	5.1
10 to 49 acres -----	10 345	1.2	3 225	27.0	23.8	4.9
50 to 99 acres -----	17 474	1.2	5 016	22.8	22.3	4.0
100 to 179 acres -----	79 069	1.1	1 322	29.8	1.6	.5
180 acres or more -----	9 008	1.2	674	44.6	7.0	2.9
	15 510	1.3	242	61.0	1.5	.9
	54 551	1.1	406	51.0	.7	.4
Harvested cropland ----- farms	84 009	1.1	3 022	27.3	3.5	.9
----- acres	22 826 308	.8	182 051	30.5	.8	.2
Farms by value of sales:						
Less than \$1,000 -----	3 463	1.4	1 212	42.5	25.9	8.2
\$1,000 to \$2,499 -----	4 173	1.5	2 372	32.5	36.2	7.5
Less than \$2,500 -----	7 636	1.4	3 584	27.0	31.9	5.8
\$2,500 or more -----	88 907	1.1	2 754	23.4	3.0	.7
	\$2,500 to \$9,999 -----	1.3	824	42.7	6.5	2.6
	\$10,000 or more -----	1.1	1 931	28.2	2.4	.7
Market value of agricultural products sold ----- \$1,000	10 099 786	.6	107 716	30.2	1.1	.3
Farms by standard industrial classification:						
Crops (01) -----	51 010	1.1	1 884	30.2	3.6	1.1
Livestock (02) -----	45 533	1.1	4 451	21.0	8.9	1.7
Farms by type of organization:						
Individual or family -----	81 127	1.1	5 629	21.2	6.5	1.3
Partnership or corporation -----	14 952	1.0	710	41.1	4.5	1.8
Other -----	464	1.7	-	(X)	-	(X)
Farms by tenure of operator:						
Full owners -----	43 541	1.1	4 970	21.4	10.2	2.0
Part owners and tenants -----	53 002	1.1	1 369	30.8	2.5	.8
Part owners -----	34 720	1.0	303	52.9	.9	.5
Tenants -----	18 282	1.2	1 066	37.0	5.5	1.9
Operators by place of residence:						
On farm operated -----	72 150	1.1	4 538	21.9	5.9	1.2
Not on farm operated -----	19 053	1.2	1 433	33.3	7.0	2.2
Not reported -----	5 340	1.0	367	62.3	6.4	3.8
Operators by principal occupation:						
Farming -----	66 885	1.1	1 739	30.6	2.5	.8
Other -----	29 658	1.2	4 590	24.6	13.4	2.9
Operators by sex:						
Male -----	92 730	1.1	5 381	20.9	5.5	1.1
Female -----	3 813	1.2	957	49.5	20.1	7.9
Operators by race:						
White -----	96 456	1.1	6 330	19.7	6.2	1.2
Black and other races -----	87	3.3	-	(X)	-	(X)
Operators by years on present farm:						
4 years or less -----	10 335	1.5	3 107	30.2	23.1	5.4
5 years or more -----	73 491	1.1	2 114	29.5	2.8	.8
Average years on present farm -----	20.8	1.5	6.8	33.4	(X)	(X)
Not reported -----	12 717	1.1	1 117	41.1	8.1	3.1
Average age of operator -----	50.3	.1	41.4	17.8	(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.