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
Farms ---- number	15.1
Land in farms ---- acres	12.2
Estimated market value of land and buildings[1] ---- $1,000	4.8
Market value of agricultural products sold ---- $1,000	9.7
Harvested cropland ---- acres	11.2
Corn for grain or seed ---- acres	9.6
Wheat for grain ---- acres	8.0
Livestock and poultry inventory:	
Cattle and calves ---- number	12.0
Hogs and pigs ---- number	7.9
Hens and pullets of laying age ---- number	1.3

[1]Data 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	6.3
50	4.3
75	3.3
100	2.8
150	2.0
200	1.5
300	.7
500	.6
750	.5
1,000	.4
1,500	.3
2,000	.3
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	30.5
50	22.3
75	18.8
100	16.8
150	14.5
200	13.2
300	11.8
500	10.5
750	9.8
1,000	9.4
1,500	9.0
2,000	8.8

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)
FARMS AND LAND IN FARMS		
Farms — number	67 959	1.0
Land in farms — acres	15 463 551	.9
Average size of farm — acres	228	1.4
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) — farms	67 959	1.0
$1,000	5 259 670	.8
Average per farm — dollars	77 395	1.3
Farms by value of sales:		
Less than $1,000 (see text) — farms	5 209	1.3
$1,000	1 379	1.4
$1,000 to $2,499 — farms	4 723	1.2
$1,000	7 899	1.2
$2,500 to $4,999 — farms	5 355	1.2
$1,000	19 469	1.2
$5,000 to $9,999 — farms	6 576	1.0
$1,000	47 222	1.0
$10,000 to $19,999 — farms	6 773	1.0
$1,000	96 993	1.1
$20,000 to $24,999 — farms	2 222	1.4
$1,000	49 551	1.4
$25,000 to $39,999 — farms	5 044	1.4
$1,000	161 546	1.4
$40,000 to $49,999 — farms	2 828	1.7
$1,000	126 802	1.7
$50,000 to $99,999 — farms	11 916	1.6
$1,000	880 456	1.6
$100,000 to $249,999 — farms	13 809	1.2
$1,000	2 079 232	1.1
$250,000 to $499,999 — farms	2 662	–
$1,000	880 021	–
$500,000 or more — farms	842	–
$1,000	909 100	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops — farms	36 711	.9
$1,000	1 126 566	.5
Grains — farms	25 172	1.0
$1,000	485 601	.7
Corn for grain — farms	19 093	1.0
$1,000	366 030	.7
Wheat — farms	2 444	1.0
$1,000	7 378	.8
Soybeans — farms	8 785	1.0
$1,000	92 522	.7
Sorghum for grain — farms	4	19.3
$1,000	7	27.2
Barley — farms	816	1.5
$1,000	2 094	1.4
Oats — farms	6 248	1.0
$1,000	10 166	.9
Other grains — farms	617	1.5
$1,000	7 403	.9
Cotton and cottonseed — farms	–	–
$1,000	–	–
Tobacco — farms	1 722	1.2
$1,000	20 407	1.3
Hay, silage, and field seeds — farms	16 162	1.0
$1,000	92 903	1.1
Vegetables, sweet corn, and melons — farms	4 266	.9
$1,000	152 788	.5
Fruits, nuts, and berries — farms	1 154	1.2
$1,000	93 403	.3
Nursery and greenhouse crops — farms	1 012	1.2
$1,000	91 588	.5
Other crops — farms	1 277	1.5
$1,000	189 876	.5
Livestock, poultry, and their products — farms	50 411	1.1
$1,000	4 133 103	.9
Poultry and poultry products — farms	1 829	1.2
$1,000	139 813	.1
Dairy products — farms	30 048	1.3
$1,000	2 853 063	1.0
Cattle and calves — farms	45 227	1.1
$1,000	841 732	.7
Hogs and pigs — farms	6 776	1.0
$1,000	196 433	.6
Sheep, lambs, and wool — farms	2 339	1.1
$1,000	4 447	1.7
Other livestock and livestock products (see text) — farms	2 793	1.2
$1,000	97 614	.4
Value of agricultural products sold directly to individuals for human consumption (see text) — farms	3 159	1.0
$1,000	13 889	.9

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses — farms	67 964	1.1
$1,000	4 029 737	.8
Average per farm — dollars	59 292	1.3
Livestock and poultry purchased — farms	26 779	1.5
$1,000	349 520	1.4
Feed for livestock and poultry — farms	46 433	1.2
$1,000	785 140	1.0
Commercially mixed formula feeds — farms	32 473	1.4
$1,000	400 566	1.0
Seeds, bulbs, plants, and trees — farms	52 164	1.2
$1,000	151 629	1.0
Commercial fertilizer — farms	50 843	1.2
$1,000	248 410	1.0
Agricultural chemicals — farms	56 383	1.1
$1,000	135 926	1.0
Petroleum products — farms	64 978	1.1
$1,000	183 421	.9
Electricity — farms	58 150	1.1
$1,000	118 085	1.1
Hired farm labor — farms	27 681	1.4
$1,000	362 356	.8
Contract labor — farms	5 005	3.1
$1,000	18 705	2.3
Repair and maintenance — farms	60 811	1.1
$1,000	322 254	1.0
Customwork, machine hire, and rental of machinery and equipment — farms	31 683	1.4
$1,000	64 464	1.6
Interest expense — farms	38 286	1.4
$1,000	346 096	1.2
Secured by real estate — farms	29 110	1.4
$1,000	235 675	1.3
Not secured by real estate — farms	21 935	1.7
$1,000	110 421	1.6
Cash rent — farms	24 391	1.6
$1,000	175 487	1.5
Property taxes — farms	62 831	1.0
$1,000	244 429	.9
All other farm production expenses — farms	64 346	1.1
$1,000	523 816	1.1
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT) [1]		
All farms — number	67 964	1.1
$1,000	1 230 986	1.2
Average per farm — dollars	18 112	1.6
Farms with net gains [2] — number	41 016	1.3
$1,000	1 439 234	1.1
Average net gain — dollars	35 090	1.7
Farms with net losses — number	26 948	1.3
$1,000	208 248	1.8
Average net loss — dollars	7 728	2.2
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments — farms	26 593	1.0
$1,000	113 215	.8
Other farm-related income [1] — farms	26 464	1.5
$1,000	78 687	2.6
Customwork and other agricultural services — farms	5 409	3.0
$1,000	26 480	5.1
Gross cash rent or share payments — farms	6 304	2.9
$1,000	22 864	4.5
Forest products and Christmas trees — farms	3 114	4.1
$1,000	12 392	5.7
Other farm-related income sources — farms	18 066	1.7
$1,000	16 951	3.5
COMMODITY CREDIT CORPORATION LOANS		
Total — farms	3 087	1.0
$1,000	48 579	.6

See footnotes at end of table.

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TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	64 229	1.0
	acres	10 948 614	.9
Harvested cropland	farms	61 125	1.0
	acres	8 843 649	.9
Farms by acres harvested:			
1 to 9 acres	farms	5 093	1.1
	acres	21 236	1.2
10 to 19 acres	farms	4 290	1.2
	acres	58 790	1.2
20 to 29 acres	farms	3 806	1.2
	acres	89 435	1.2
30 to 49 acres	farms	6 331	1.1
	acres	241 803	1.1
50 to 99 acres	farms	12 316	1.1
	acres	888 410	1.2
100 to 199 acres	farms	15 878	1.4
	acres	2 255 070	1.4
200 to 499 acres	farms	10 938	1.0
	acres	3 146 295	.9
500 to 999 acres	farms	1 911	.4
	acres	1 267 437	.4
1,000 acres or more	farms	562	–
	acres	875 173	–
Cropland:			
Pasture or grazing only	farms	29 776	1.1
	acres	1 085 580	1.1
Other cropland	farms	25 508	1.0
	acres	1 019 385	1.0
Total woodland	farms	41 932	1.0
	acres	2 890 310	1.0
Pastureland and rangeland other than cropland and woodland pastured	farms	16 981	1.1
	acres	782 245	1.1
Land in house lots, ponds, roads, wasteland, etc.	farms	45 751	1.0
	acres	842 382	.8
Irrigated land	farms	2 146	.9
	acres	330 838	.4
Acres irrigated:			
1 to 9 acres	farms	854	1.4
	acres	2 191	1.7
10 to 49 acres	farms	377	1.7
	acres	9 879	1.7
50 to 99 acres	farms	248	1.8
	acres	17 808	1.8
100 to 199 acres	farms	271	1.5
	acres	36 818	1.5
200 to 499 acres	farms	245	1.0
	acres	74 980	.8
500 to 999 acres	farms	84	.6
	acres	60 094	.7
1,000 acres or more	farms	67	–
	acres	129 068	–
Harvested cropland irrigated	farms	2 114	.9
	acres	325 574	.4
Pasture and other land irrigated	farms	103	2.6
	acres	5 264	1.2
Land under federal acreage reduction programs:			
Diverted under annual commodity programs	farms	14 982	1.0
	acres	124 480	.7
Conservation Reserve or Wetlands Reserve Programs	farms	8 261	1.1
	acres	359 072	1.3
VALUE OF LAND AND BUILDINGS [1]			
Estimated market value of land and buildings	farms	67 964	1.1
	$1,000	14 284 578	1.0
Average per farm	dollars	210 179	1.5
Average per acre	dollars	925	1.5
VALUE OF MACHINERY AND EQUIPMENT [1]			
Estimated market value of all machinery and equipment	farms	67 907	1.1
	$1,000	4 481 945	1.1
Average per farm	dollars	66 001	1.5
AGRICULTURAL CHEMICALS [1]			
Commercial fertilizer	farms	50 641	1.2
	acres on which used	6 495 430	1.0

Item		Total	Relative standard error of estimate (percent)
TENURE OF OPERATOR			
All operators	farms	67 959	1.0
	acres	15 463 551	.9
Full owners	farms	38 773	.9
	acres	6 039 322	.9
Part owners	farms	23 362	1.0
	acres	8 286 246	.8
Tenants	farms	5 824	2.0
	acres	1 137 983	2.0
OWNED AND RENTED LAND			
Land owned	farms	62 223	.9
	acres	11 859 904	.8
Owned land in farms	farms	62 135	.9
	acres	11 241 192	.8
Land rented or leased from others	farms	29 352	1.2
	acres	4 267 778	1.1
	landlords	67 650	1.1
Rented or leased land in farms	farms	29 186	1.2
	acres	4 222 359	1.1
Land rented or leased to others	farms	8 578	1.0
	acres	664 131	1.0
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		56 526	1.0
Not on farm operated		8 207	1.3
Not reported		3 226	1.1
Operators by principal occupation:			
Farming		46 180	1.1
Other		21 779	1.0
Operators by days worked off farm:			
Any		28 081	1.0
200 days or more		18 307	1.0
Operators by sex:			
Male	farms	64 136	1.0
	acres	14 878 302	.9
Female	farms	3 823	1.2
	acres	585 249	1.2
Average age of operator	years	50.6	1.4
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	58 298	1.0
	acres	11 713 648	1.0
Partnership	farms	6 930	1.2
	acres	2 238 330	.9
Corporation:			
Family held	farms	2 312	.7
	acres	1 368 124	.4
More than 10 stockholders	farms	55	2.2
10 or less stockholders	farms	2 257	.8
Other than family held	farms	190	2.0
	acres	84 030	1.5
More than 10 stockholders	farms	30	3.2
10 or less stockholders	farms	160	2.3
Other—cooperative, estate or trust, institutional, etc.	farms	229	2.2
	acres	59 419	1.9
HIRED FARM LABOR			
Hired workers by days worked:			
150 days or more	farms	15 652	23.3
	workers	31 589	16.8
Less than 150 days	farms	21 964	26.1
	workers	77 855	21.7
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	1 361	1.4
	number	1 576	1.4
Hired workers	farms	474	1.1
	number	737	.8
Farm-related deaths:			
Operator and family members	farms	31	5.6
	number	31	5.6
Hired workers	farms	4	9.9
	number	4	9.9

See footnotes at end of table.

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TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
FARMS BY SIZE		
1 to 9 acres — farms	3 605	1.2
acres	13 656	1.3
10 to 49 acres — farms	8 655	1.1
acres	246 207	1.1
50 to 69 acres — farms	3 011	1.2
acres	176 330	1.2
70 to 99 acres — farms	6 481	1.1
acres	531 880	1.1
100 to 139 acres — farms	7 252	1.1
acres	853 318	1.1
140 to 179 acres — farms	7 377	1.2
acres	1 166 447	1.2
180 to 219 acres — farms	6 272	1.4
acres	1 242 121	1.4
220 to 259 acres — farms	5 121	1.3
acres	1 217 934	1.3
260 to 499 acres — farms	14 177	1.2
acres	4 938 085	1.2
500 to 999 acres — farms	4 790	.8
acres	3 148 391	.7
1,000 to 1,999 acres — farms	1 014	–
acres	1 314 208	–
2,000 acres or more — farms	204	–
acres	614 974	–
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION		
Cash grains (011) — farms	7 234	1.0
acres	1 920 957	.8
Field crops, except cash grains (013) — farms	7 931	1.1
acres	1 242 971	1.0
Vegetables and melons (016) — farms	1 628	1.1
acres	317 509	1.0
Fruits and tree nuts (017) — farms	905	1.3
acres	174 267	.6
Horticultural specialties (018) — farms	839	1.3
acres	53 189	1.7
General farms, primarily crop (019) — farms	2 187	1.1
acres	400 990	1.0
Livestock, except dairy, poultry, and animal specialties (021) — farms	15 634	.9
acres	2 476 583	.8
Dairy farms (024) — farms	28 264	1.3
acres	8 283 511	1.1
Poultry and eggs (025) — farms	368	1.6
acres	60 359	1.7
Animal specialties (027) — farms	1 882	1.3
acres	125 088	1.5
General farms, primarily livestock and animal specialties (029) — farms	1 087	1.3
acres	408 127	.9

Item	Total	Relative standard error of estimate (percent)
LIVESTOCK		
Cattle and calves inventory — farms	46 052	1.1
number	3 866 998	.9
Beef cows — farms	10 394	1.0
number	195 810	.9
Milk cows — farms	30 156	1.3
number	1 521 969	1.0
Cattle and calves sold — farms	45 227	1.1
number	1 808 889	.9
$1,000	841 732	.7
Hogs and pigs inventory — farms	6 760	1.1
number	1 173 783	.7
Hogs and pigs sold — farms	6 776	1.0
number	2 244 673	.7
$1,000	196 433	.6
Sheep and lambs of all ages inventory — farms	2 444	1.2
number	84 956	1.7
Sheep and lambs sold — farms	2 175	1.2
number	77 566	1.6
Horses and ponies inventory — farms	8 146	1.1
number	43 565	1.3
Horses and ponies sold — farms	1 571	1.4
number	5 727	1.6
POULTRY		
Chickens 3 months old or older inventory — farms	2 860	1.2
number	3 734 208	.3
Hens and pullets of laying age — farms	2 830	1.2
number	3 485 859	.3
Broilers and other meat-type chickens sold — farms	504	1.7
number	13 686 548	.2
CROPS HARVESTED		
Corn for grain or seed — farms	36 674	1.1
acres	2 830 496	.8
bushels	283 709 848	.8
Corn for silage or green chop — farms	28 701	1.2
acres	937 346	1.0
tons, green	10 189 877	1.0
Wheat for grain — farms	2 705	1.0
acres	68 241	.8
bushels	2 631 429	.8
Oats for grain — farms	22 195	1.1
acres	488 332	1.0
bushels	27 900 172	1.0
Tobacco — farms	1 729	1.2
acres	7 379	1.4
pounds	13 651 456	1.4
Soybeans for beans — farms	8 957	1.0
acres	575 087	.7
bushels	17 659 688	.7
Irish potatoes — farms	447	1.3
acres	78 231	.2
cwt	26 639 799	.1
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) — farms	51 238	1.0
acres	3 911 258	1.0
tons, dry	8 621 168	1.0
Alfalfa hay — farms	42 313	1.0
acres	2 201 007	1.0
tons, dry	5 748 350	1.0
Vegetables harvested for sale (see text) — farms	4 269	.9
acres	347 581	.6
Land in orchards — farms	1 079	1.4
acres	13 455	1.5

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains of less than $1,000.

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TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
FARMS AND LAND IN FARMS		
Farms — number	46 096	1.2
Land in farms — acres	13 359 338	1.0
Average size of farm — acres	290	1.5
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) — farms	46 096	1.2
$1,000	5 183 700	.8
Average per farm — dollars	112 454	1.4
Farms by value of sales:		
$10,000 to $19,999 — farms	6 773	1.0
$1,000	96 993	1.1
$20,000 to $24,999 — farms	2 222	1.4
$1,000	49 551	1.4
$25,000 to $39,999 — farms	5 044	1.4
$1,000	161 546	1.4
$40,000 to $49,999 — farms	2 828	1.7
$1,000	126 802	1.7
$50,000 to $99,999 — farms	11 916	1.6
$1,000	880 456	1.6
$100,000 to $249,999 — farms	13 809	1.2
$1,000	2 079 232	1.1
$250,000 to $499,999 — farms	2 662	–
$1,000	880 021	–
$500,000 or more — farms	842	–
$1,000	909 100	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops — farms	24 637	1.1
$1,000	1 087 117	.5
Grains — farms	19 453	1.1
$1,000	470 715	.7
Corn for grain — farms	15 212	1.0
$1,000	356 077	.7
Wheat — farms	2 080	1.0
$1,000	6 870	.8
Soybeans — farms	7 661	1.0
$1,000	89 899	.7
Sorghum for grain — farms	2	29.6
$1,000	(D)	(D)
Barley — farms	690	1.6
$1,000	(D)	(D)
Oats — farms	4 734	1.1
$1,000	8 673	1.0
Other grains — farms	491	1.6
$1,000	7 250	.9
Cotton and cottonseed — farms	–	–
$1,000	–	–
Tobacco — farms	1 208	1.4
$1,000	18 287	1.4
Hay, silage, and field seeds — farms	8 829	1.2
$1,000	75 662	1.2
Vegetables, sweet corn, and melons — farms	3 541	.9
$1,000	150 414	.5
Fruits, nuts, and berries — farms	582	1.3
$1,000	92 274	.3
Nursery and greenhouse crops — farms	672	1.3
$1,000	90 492	.5
Other crops — farms	1 126	1.5
$1,000	189 272	.5
Livestock, poultry, and their products — farms	39 487	1.2
$1,000	4 096 583	.9
Poultry and poultry products — farms	1 005	1.4
$1,000	139 321	.1
Dairy products — farms	29 804	1.3
$1,000	2 851 898	1.0
Cattle and calves — farms	37 416	1.2
$1,000	815 276	.8
Hogs and pigs — farms	5 161	1.1
$1,000	192 727	.6
Sheep, lambs, and wool — farms	1 034	1.5
$1,000	2 732	2.3
Other livestock and livestock products (see text) — farms	1 222	1.6
$1,000	94 629	.4
Value of agricultural products sold directly to individuals for human consumption (see text) — farms	1 641	1.3
$1,000	11 804	1.0

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses — farms	46 079	1.2
$1,000	3 877 245	.8
Average per farm — dollars	84 143	1.5
Livestock and poultry purchased — farms	20 625	1.7
$1,000	338 268	1.5
Feed for livestock and poultry — farms	37 239	1.3
$1,000	774 821	1.0
Commercially mixed formula feeds — farms	29 073	1.4
$1,000	398 303	1.0
Seeds, bulbs, plants, and trees — farms	41 389	1.3
$1,000	146 921	1.0
Commercial fertilizer — farms	40 206	1.3
$1,000	240 957	1.0
Agricultural chemicals — farms	40 591	1.3
$1,000	128 588	1.1
Petroleum products — farms	45 405	1.2
$1,000	173 302	.9
Electricity — farms	43 694	1.2
$1,000	113 161	1.1
Hired farm labor — farms	24 152	1.5
$1,000	360 094	.8
Contract labor — farms	4 147	3.4
$1,000	18 104	2.4
Repair and maintenance — farms	44 110	1.2
$1,000	304 226	1.0
Customwork, machine hire, and rental of machinery and equipment — farms	26 164	1.5
$1,000	61 759	1.6
Interest expense — farms	31 529	1.4
$1,000	329 539	1.2
Secured by real estate — farms	23 417	1.5
$1,000	220 982	1.3
Not secured by real estate — farms	19 782	1.8
$1,000	108 557	1.6
Cash rent — farms	22 134	1.6
$1,000	172 911	1.5
Property taxes — farms	42 261	1.2
$1,000	206 011	1.0
All other farm production expenses — farms	46 063	1.2
$1,000	508 582	1.1
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT) [1]		
All farms — number	46 079	1.2
$1,000	1 307 586	1.2
Average per farm — dollars	28 377	1.7
Farms with net gains [2] — number	36 600	1.4
$1,000	1 430 788	1.1
Average net gain — dollars	39 093	1.7
Farms with net losses — number	9 479	2.2
$1,000	123 201	2.5
Average net loss — dollars	12 997	3.3
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments — farms	20 226	1.1
$1,000	97 524	.8
Other farm-related income [1] — farms	19 552	1.6
$1,000	63 232	2.8
Customwork and other agricultural services — farms	4 597	3.2
$1,000	24 312	5.2
Gross cash rent or share payments — farms	2 831	4.1
$1,000	14 527	6.0
Forest products and Christmas trees — farms	2 041	5.0
$1,000	9 010	6.5
Other farm-related income sources — farms	15 121	1.8
$1,000	15 383	2.4
COMMODITY CREDIT CORPORATION LOANS		
Total — farms	2 933	1.0
$1,000	48 339	.6

See footnotes at end of table.

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TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	44 447	1.2
	acres	9 905 090	.9
Harvested cropland	farms	43 607	1.2
	acres	8 295 601	.9
Cropland:			
Pasture or grazing only	farms	22 235	1.2
	acres	897 886	1.2
Total woodland	farms	29 184	1.2
	acres	2 168 792	1.1
Pastureland and rangeland other than cropland and woodland pastured	farms	12 146	1.2
	acres	629 737	1.2
Land in house lots, ponds, roads, wasteland, etc.	farms	30 762	1.1
	acres	655 719	.9
Irrigated land	farms	1 762	.9
	acres	327 907	.4
Harvested cropland irrigated	farms	1 748	.9
	acres	322 879	.4
Pasture and other land irrigated	farms	79	2.6
	acres	5 028	.8
Land under federal acreage reduction programs:			
Diverted under annual commodity programs	farms	13 790	1.1
	acres	121 701	.7
Conservation Reserve or Wetlands Reserve Programs	farms	4 392	1.1
	acres	188 480	1.4
VALUE OF LAND AND BUILDINGS [1]			
Estimated market value of land and buildings	farms	46 079	1.2
	$1,000	12 199 047	1.1
Average per farm	dollars	264 742	1.6
Average per acre	dollars	912	1.5
VALUE OF MACHINERY AND EQUIPMENT [1]			
Estimated market value of all machinery and equipment	farms	46 071	1.2
	$1,000	3 998 005	1.1
Average per farm	dollars	86 779	1.7
AGRICULTURAL CHEMICALS[1]			
Commercial fertilizer	farms	40 105	1.3
	acres on which used	6 251 706	1.0
TENURE OF OPERATOR			
All operators	farms	46 096	1.2
	acres	13 359 338	1.0
Full owners	farms	20 771	1.1
	acres	4 324 936	1.0
Part owners	farms	20 761	1.1
	acres	7 962 503	.8
Tenants	farms	4 564	2.3
	acres	1 071 899	2.0
OWNED AND RENTED LAND			
Land owned	farms	41 586	1.1
	acres	9 670 188	.9
Owned land in farms	farms	41 532	1.1
	acres	9 316 173	.9
Land rented or leased from others	farms	25 433	1.3
	acres	4 081 225	1.1
	landlords	61 536	1.1
Rented or leased land in farms	farms	25 325	1.3
	acres	4 043 165	1.1
Land rented or leased to others	farms	3 892	1.1
	acres	392 075	1.1
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		39 452	1.2
Not on farm operated		4 667	1.5
Not reported		1 977	1.3
Operators by principal occupation:			
Farming		38 726	1.2
Other		7 370	1.2
Operators by days worked off farm:			
Any		13 685	1.3
200 days or more		7 217	1.3
Operators by sex:			
Male		44 330	1.2
Female		1 766	1.5
Average age of operator	years	49.1	1.6

Item		Total	Relative standard error of estimate (percent)
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	38 089	1.2
	acres	9 807 363	1.1
Partnership	farms	5 614	1.2
	acres	2 094 904	.9
Corporation:			
Family held	farms	2 109	.7
	acres	1 330 122	.4
More than 10 stockholders	farms	49	2.2
10 or less stockholders	farms	2 060	.7
Other than family held	farms	156	2.1
	acres	78 611	1.4
More than 10 stockholders	farms	24	2.4
10 or less stockholders	farms	132	2.4
Other—cooperative, estate or trust, institutional, etc.	farms	128	2.6
	acres	48 338	2.0
HIRED FARM LABOR			
Hired workers by days worked:			
150 days or more	farms	14 467	24.3
	workers	30 363	17.0
Less than 150 days	farms	18 541	28.2
	workers	70 252	22.5
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	1 215	1.4
	number	1 409	1.5
Hired workers	farms	449	1.0
	number	707	.7
Farm-related deaths:			
Operator and family members	farms	30	5.7
	number	(D)	(D)
Hired workers	farms	4	9.9
	number	(D)	(D)
FARMS BY SIZE			
1 to 9 acres		1 436	1.5
10 to 49 acres		2 217	1.5
50 to 69 acres		1 022	1.7
70 to 99 acres		2 990	1.3
100 to 139 acres		4 473	1.4
140 to 179 acres		5 401	1.4
180 to 219 acres		5 205	1.5
220 to 259 acres		4 460	1.4
260 to 499 acres		13 077	1.2
500 to 999 acres		4 617	.8
1,000 to 1,999 acres		1 000	–
2,000 acres or more		198	–
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			
Cash grains (011)		3 978	1.2
Field crops, except cash grains (013)		2 556	1.5
Vegetables and melons (016)		1 121	1.3
Fruits and tree nuts (017)		376	1.4
Horticultural specialties (018)		573	1.4
General farms, primarily crop (019)		778	1.4
Livestock, except dairy, poultry, and animal specialties (021)		7 362	1.0
Dairy farms (024)		28 064	1.3
Poultry and eggs (025)		175	1.4
Animal specialties (027)		434	1.8
General farms, primarily livestock and animal specialties (029)		679	1.4
LIVESTOCK			
Cattle and calves inventory	farms	37 084	1.2
	number	3 711 492	1.0
Beef cows	farms	5 599	1.1
	number	146 174	1.0
Milk cows	farms	29 520	1.3
	number	1 519 715	1.1
Cattle and calves sold	farms	37 416	1.2
	number	1 749 946	.9
	$1,000	815 276	.8
Hogs and pigs inventory	farms	5 013	1.2
	number	1 136 307	.7
Hogs and pigs sold	farms	5 161	1.1
	number	2 184 482	.7
	$1,000	192 727	.6
Sheep and lambs of all ages inventory	farms	1 063	1.5
	number	46 535	2.5
Sheep and lambs sold	farms	957	1.5
	number	46 031	2.1
Horses and ponies inventory	farms	3 728	1.4
	number	18 885	1.7
Horses and ponies sold	farms	650	1.9
	number	3 587	2.2

See footnotes at end of table.

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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)
POULTRY			
Chickens 3 months old or older inventory	farms	1 449	1.5
	number	3 685 882	.3
Hens and pullets of laying age	farms	1 438	1.5
	number	3 441 880	.3
Broilers and other meat-type chickens sold	farms	254	2.1
	number	13 644 882	.2
CROPS HARVESTED			
Corn for grain or seed	farms	31 309	1.2
	acres	2 742 387	.8
	bushels	277 090 680	.8
Corn for silage or green chop	farms	26 475	1.2
	acres	908 290	1.0
	tons, green	9 928 894	1.0
Wheat for grain	farms	2 270	1.0
	acres	62 171	.9
	bushels	2 434 132	.8
CROPS HARVESTED—Con.			
Oats for grain	farms	19 045	1.2
	acres	449 582	1.0
	bushels	25 899 916	1.0
Tobacco	farms	1 212	1.5
	acres	64 460	1.6
	pounds	12 168 656	1.5
Soybeans for beans	farms	7 782	1.0
	acres	548 932	.7
	bushels	17 101 110	.7
Irish potatoes	farms	360	1.2
	acres	78 118	.2
	cwt	26 624 142	.1
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	37 777	1.2
	acres	3 550 558	1.1
	tons, dry	8 027 951	1.0
Alfalfa hay	farms	32 148	1.2
	acres	1 976 981	1.1
	tons, dry	5 345 253	1.1
Vegetables harvested for sale (see text)	farms	3 543	.9
	acres	340 491	.6
Land in orchards	farms	352	1.8
	acres	9 442	1.9

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains of less than $1,000.

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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	–9.5	1.5	–10.9	1.8
Land in farms	acres	–6.9	1.5	–7.9	1.5
Average size of farm	acres	3.2	2.4	3.6	2.7
Estimated market value of land and buildings [1]:					
Average per farm	dollars	14.9	2.6	15.0	3.1
Average per acre	dollars	12.0	2.6	11.4	2.7
Estimated market value of all machinery and equipment [1]:					
Average per farm	dollars	22.1	2.9	20.9	3.3
Farms by size:					
1 to 9 acres		–10.1	1.6	–5.3	2.0
10 to 49 acres		–1.4	1.7	24.4	2.7
50 to 179 acres		–12.3	1.6	–15.3	1.9
180 to 499 acres		–11.3	1.9	–13.2	1.9
500 to 999 acres		–2.7	1.1	–3.6	1.1
1,000 to 1,999 acres		10.1	–	9.9	–
2,000 acres or more		19.3	–	17.2	–
Total cropland	farms	–9.9	1.6	–11.3	1.8
	acres	–5.8	1.4	–6.2	1.5
Harvested cropland	farms	–11.6	1.5	–11.8	1.8
	acres	–5.3	1.4	–4.5	1.5
Irrigated land	farms	16.0	1.5	13.2	1.5
	acres	16.2	.7	16.5	.7
Market value of agricultural products sold	$1,000	7.1	1.4	7.5	1.4
Average per farm	dollars	18.4	2.6	20.6	2.9
Crops, including nursery and greenhouse crops	$1,000	20.3	1.0	22.0	1.0
Livestock, poultry, and their products	$1,000	4.0	1.5	4.2	1.5
Farms by value of sales:					
Less than $2,500		1.0	1.4	(X)	(X)
$2,500 to $4,999		–11.3	1.5	(X)	(X)
$5,000 to $9,999		–12.4	1.5	(X)	(X)
$10,000 to $24,999		–15.8	1.7	–15.8	1.7
$25,000 to $49,999		–25.0	1.9	–25.0	1.9
$50,000 to $99,999		–21.7	2.0	–21.7	2.0
$100,000 to $249,999		7.7	1.8	7.7	1.8
$250,000 to $499,999		37.8	(L)	37.8	(L)
$500,000 or more		38.7	.1	38.7	.1
Total farm production expenses [1]	$1,000	10.7	1.6	11.1	1.8
Average per farm	dollars	22.4	2.6	24.4	3.1
Net cash return from agricultural sales for the farm unit (see text) [1]	farms	–9.5	1.5	–10.7	1.9
	$1,000	–1.8	1.7	–.5	1.7
Average per farm	dollars	8.6	2.6	11.5	3.0
Operators by principal occupation:					
Farming		–13.4	1.6	–13.3	1.8
Other		–	1.6	4.4	2.1
Operators by days worked off farm:					
Any		–6.4	4.8	–6.8	4.8
200 days or more		–2.5	5.0	.6	5.2
Livestock and poultry:					
Cattle and calves inventory	farms	–13.6	1.6	–14.0	1.8
	number	–6.6	1.5	–6.5	1.5
Beef cows	farms	.4	1.6	7.9	2.2
	number	8.6	1.7	12.2	2.0
Milk cows	farms	–19.2	1.7	–17.9	1.8
	number	–12.7	1.5	–12.3	1.5
Cattle and calves sold	farms	–14.4	1.6	–14.4	1.8
	number	–8.7	1.3	–8.5	1.3
Hogs and pigs inventory	farms	–22.6	1.4	–27.6	1.4
	number	–10.6	1.0	–10.7	1.0
Hogs and pigs sold	farms	–23.9	1.3	–27.3	1.4
	number	–10.8	1.0	–10.8	1.0
Sheep and lambs inventory	farms	–8.9	1.6	–21.0	1.9
	number	–10.0	2.1	–21.7	2.6
Chickens 3 months old or older inventory	farms	–38.6	1.1	–44.7	1.3
	number	–27.6	.3	–27.3	.3
Broilers and other meat-type chickens sold	farms	–25.2	1.8	–26.4	2.3
	number	27.2	.4	27.4	.4
Selected crops harvested:					
Corn for grain or seed	farms	–24.6	1.4	–22.0	1.6
	acres	1.5	1.3	3.1	1.4
	bushels	–9.0	1.2	–7.7	1.2
Corn for silage or green chop	farms	–1.3	2.0	–3.1	2.0
	acres	40.6	2.3	40.1	2.4
	tons, green	19.4	1.9	19.2	1.9
Oats for grain	farms	–28.6	1.4	–27.6	1.5
	acres	–28.1	1.3	–27.3	1.3
	bushels	–25.5	1.3	–25.0	1.3
Soybeans for beans	farms	59.2	2.6	67.4	3.0
	acres	93.5	2.4	97.0	2.5
	bushels	53.7	1.8	56.4	1.9
Irish potatoes	farms	–4.9	1.8	–6.7	1.8
	acres	8.4	.4	8.7	.4
	cwt	21.1	.3	21.2	.3
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	–15.2	1.5	–15.8	1.8
	acres	–18.3	1.4	–18.8	1.5
	tons, dry	–30.5	1.2	–31.0	1.2
Vegetables harvested for sale (see text)	farms	2.2	1.5	5.4	1.6
	acres	5.7	1.0	6.8	1.0

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

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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)
Wisconsin	**67 959**	**1.0**	**15 463 551**	**.9**	**228**	**1.4**	**210 179**	**1.5**	**4 481 945**	**1.1**
Adams	340	.9	119 354	.9	351	1.3	361 212	6.8	33 453	5.6
Ashland	198	1.3	51 208	1.9	259	2.3	100 693	14.7	7 167	18.8
Barron	1 474	1.6	350 866	1.6	238	2.2	158 115	5.1	90 378	3.6
Bayfield	360	1.2	97 521	1.6	271	2.0	126 448	5.9	12 672	7.6
Brown	1 101	1.1	205 363	1.0	187	1.5	223 073	4.2	78 818	4.3
Buffalo	982	1.1	323 482	1.1	329	1.5	172 669	3.8	65 336	4.8
Burnett	369	1.2	84 091	1.8	228	2.2	100 612	8.0	17 475	11.8
Calumet	796	1.0	162 205	1.1	204	1.4	229 006	4.5	62 555	5.1
Chippewa	1 571	1.6	386 857	1.5	246	2.2	162 564	4.2	102 146	5.3
Clark	2 010	1.8	426 884	1.7	212	2.4	147 279	4.5	121 635	4.4
Columbia	1 443	1.1	327 185	1.1	227	1.5	239 628	3.3	103 983	4.3
Crawford	978	1.4	248 956	1.5	255	2.0	150 944	6.7	42 999	6.7
Dane	2 639	.8	538 582	.7	204	1.0	280 434	2.1	191 903	2.6
Dodge	2 004	1.0	414 240	.9	207	1.4	250 207	5.6	168 743	3.5
Door	760	.9	130 051	1.2	171	1.5	174 078	4.4	45 326	5.3
Douglas	260	1.1	70 547	1.7	271	2.0	109 663	7.5	8 968	9.9
Dunn	1 383	1.0	366 593	.9	265	1.4	188 280	3.6	90 171	4.2
Eau Claire	886	1.3	189 905	1.3	214	1.9	169 264	4.1	44 610	5.7
Florence	78	1.3	21 008	2.3	269	2.7	142 636	6.1	3 570	4.7
Fond du Lac	1 552	.9	351 633	.9	227	1.2	242 245	3.6	124 706	3.4
Forest	115	.9	26 456	1.8	230	2.0	111 390	6.6	4 543	9.3
Grant	2 340	1.2	620 951	1.1	265	1.7	218 074	2.9	171 447	2.9
Green	1 271	1.2	293 134	1.2	231	1.6	222 576	2.8	95 400	4.6
Green Lake	705	.9	163 145	1.0	231	1.3	251 599	10.4	45 795	5.9
Iowa	1 328	1.3	361 918	1.3	273	1.8	244 857	3.9	91 433	4.9
Iron	55	1.1	10 263	2.4	187	2.6	(D)	(D)	(D)	(D)
Jackson	720	1.5	218 145	1.4	303	2.0	244 068	8.1	57 932	3.9
Jefferson	1 280	.7	232 591	.8	182	1.1	207 741	2.9	83 707	3.9
Juneau	675	1.3	195 287	1.2	289	1.8	240 626	3.9	44 833	4.0
Kenosha	420	.7	92 761	.9	221	1.2	380 708	3.5	28 775	7.9
Kewaunee	893	1.1	170 228	1.2	191	1.6	207 054	6.2	80 498	4.4
La Crosse	789	1.0	182 339	1.1	231	1.5	234 710	8.7	44 205	4.7
Lafayette	1 235	1.3	356 651	1.1	289	1.7	287 245	3.1	96 387	2.7
Langlade	418	1.1	120 383	1.0	288	1.5	220 479	4.6	38 827	4.6
Lincoln	399	1.4	85 500	1.8	214	2.3	138 862	8.8	17 613	9.8
Manitowoc	1 318	.7	248 862	.6	189	.9	204 408	3.6	102 994	4.6
Marathon	2 804	1.1	529 966	.9	189	1.4	149 999	3.1	170 269	3.0
Marinette	634	.8	145 980	1.1	230	1.4	163 589	4.6	51 243	9.8
Marquette	444	1.2	135 538	1.2	305	1.7	202 775	4.1	23 953	5.8
Menominee	1	–	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Milwaukee	97	.7	8 763	2.4	90	2.5	238 950	6.0	3 566	4.2
Monroe	1 549	1.2	346 398	1.3	224	1.8	200 348	4.3	91 462	4.9
Oconto	931	.9	208 888	.9	224	1.3	161 013	6.0	63 017	4.1
Oneida	99	1.3	31 777	1.6	321	2.0	218 169	3.9	7 164	2.9
Outagamie	1 404	.9	263 514	.9	188	1.3	211 118	2.8	90 083	3.6
Ozaukee	448	1.0	78 772	1.3	176	1.6	249 110	4.0	30 595	7.0
Pepin	419	1.6	113 548	1.8	271	2.4	179 407	7.6	25 696	6.3
Pierce	1 214	1.2	272 876	1.2	225	1.8	198 781	6.1	67 464	4.9
Polk	1 324	1.1	282 405	1.2	213	1.6	164 402	9.7	61 134	5.3
Portage	980	1.1	265 731	.9	271	1.4	269 179	3.7	95 016	4.2
Price	385	.9	94 596	1.3	246	1.6	133 818	6.5	12 943	7.5
Racine	607	.8	133 197	.8	219	1.1	321 010	3.9	41 445	3.8
Richland	1 094	1.3	270 930	1.5	248	2.0	170 789	4.1	57 426	4.9
Rock	1 398	.9	343 115	.8	245	1.2	308 336	2.2	96 942	4.0
Rusk	644	1.2	168 304	1.5	261	1.9	113 889	5.9	34 360	10.5
St. Croix	1 391	1.2	308 460	1.3	222	1.7	198 099	3.7	79 007	3.9
Sauk	1 383	.9	335 517	1.0	243	1.3	217 160	3.3	99 751	4.3
Sawyer	170	1.2	47 376	1.6	279	2.0	173 325	8.6	8 168	11.3
Shawano	1 437	1.0	297 984	1.1	207	1.5	189 379	7.0	113 736	4.5
Sheboygan	1 071	.8	207 128	.9	193	1.1	218 527	5.6	75 440	5.0
Taylor	931	1.4	231 427	1.5	249	2.0	129 892	6.0	50 051	5.5
Trempealeau	1 424	1.5	348 602	1.4	245	2.1	164 950	4.7	87 014	4.9
Vernon	2 061	1.2	365 511	1.3	177	1.8	137 242	4.2	86 789	4.0
Vilas	37	1.5	(D)	(D)	(D)	(D)	401 468	6.2	3 138	1.9
Walworth	868	.9	226 096	.8	260	1.2	405 972	2.8	62 754	3.0
Washburn	324	1.3	86 091	1.4	266	1.9	120 744	5.7	14 249	11.0
Washington	849	.9	147 207	.9	173	1.3	289 285	6.2	66 284	6.0
Waukesha	691	.8	114 184	1.1	165	1.4	383 791	4.5	36 690	6.7
Waupaca	1 190	.8	241 778	.9	203	1.2	191 021	3.7	70 956	4.2
Waushara	628	1.1	167 191	1.0	266	1.5	293 903	7.8	54 587	3.5
Winnebago	854	1.1	169 876	1.1	199	1.5	217 907	3.6	55 335	4.7
Wood	1 029	1.4	221 357	1.2	215	1.8	228 408	6.5	71 367	5.5

See footnotes at end of table.

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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]			
							Total farm production expenses			
							Farms		Value	
	Value (dollars)	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total ($1,000)	Relative standard error of estimate (percent)
Wisconsin	**66 001**	**1.5**	**5 259 670**	**.8**	**77 395**	**1.3**	**67 964**	**1.1**	**4 029 737**	**.8**
Adams	98 103	5.7	39 778	.6	116 995	1.1	341	1.2	36 250	4.8
Ashland	36 196	18.9	4 945	3.4	24 977	3.6	198	1.6	2 772	8.0
Barron	61 315	3.8	137 676	1.2	93 403	2.0	1 474	1.4	107 620	1.7
Bayfield	35 101	7.8	11 638	2.5	32 327	2.8	361	1.4	9 118	8.6
Brown	71 652	4.5	108 945	.9	98 951	1.4	1 100	1.2	83 533	1.7
Buffalo	66 602	4.9	81 401	1.0	82 893	1.5	981	1.2	63 550	2.4
Burnett	47 231	11.8	14 421	2.4	39 081	2.7	370	1.2	9 496	10.5
Calumet	78 685	5.2	77 226	1.0	97 018	1.4	795	1.2	57 818	2.2
Chippewa	64 978	5.6	115 253	1.4	73 363	2.2	1 572	1.8	86 948	2.5
Clark	60 515	4.6	140 433	1.7	69 867	2.5	2 010	1.5	100 624	2.6
Columbia	72 011	4.5	104 566	.9	72 464	1.4	1 444	1.3	86 840	1.8
Crawford	44 011	6.8	48 520	1.7	49 612	2.2	977	1.5	35 288	4.7
Dane	72 746	2.8	270 522	.5	102 509	.9	2 639	.9	189 306	1.0
Dodge	84 456	3.8	189 231	.8	94 427	1.3	2 004	1.3	143 133	1.4
Door	59 561	5.4	38 804	1.3	51 058	1.6	761	1.0	30 039	2.4
Douglas	34 494	10.0	5 407	2.3	20 797	2.6	260	1.4	4 654	12.9
Dunn	65 199	4.3	106 668	.8	77 128	1.3	1 383	.9	83 786	1.9
Eau Claire	50 407	5.9	52 957	1.3	59 771	1.9	885	1.5	42 560	2.4
Florence	45 765	6.2	2 393	4.1	30 685	4.3	78	4.1	2 155	5.1
Fond du Lac	81 295	3.6	151 097	.8	97 356	1.2	1 554	1.0	114 330	1.7
Forest	39 503	9.5	4 379	1.8	38 077	2.0	115	2.2	3 841	3.0
Grant	73 237	3.2	204 675	1.0	87 468	1.6	2 341	1.3	155 263	1.8
Green	75 059	4.7	118 153	1.1	92 961	1.6	1 271	1.2	91 221	2.2
Green Lake	64 957	6.1	55 999	1.0	79 431	1.3	705	1.3	43 387	2.8
Iowa	69 163	5.1	111 729	1.1	84 133	1.7	1 327	1.5	86 760	1.9
Iron	(D)	(D)	(D)	(D)	(D)	(D)	55	4.1	(D)	(D)
Jackson	80 574	4.2	63 264	1.2	87 866	1.9	719	1.7	49 290	2.6
Jefferson	65 345	4.0	106 270	.6	83 023	.9	1 281	.9	86 362	1.4
Juneau	66 419	4.3	55 708	1.1	82 530	1.6	675	1.4	43 089	2.1
Kenosha	68 188	8.0	30 623	.9	72 911	1.1	422	1.1	25 774	3.5
Kewaunee	90 143	4.5	79 699	1.1	89 249	1.6	893	.9	55 826	1.9
La Crosse	56 027	4.8	48 005	1.2	60 843	1.5	789	1.1	37 032	2.9
Lafayette	78 109	3.1	135 647	.9	109 836	1.6	1 235	1.5	102 347	1.5
Langlade	93 111	4.7	42 817	.9	102 433	1.4	417	1.1	32 262	2.3
Lincoln	44 144	9.9	16 847	2.0	42 223	2.4	399	1.4	12 421	5.3
Manitowoc	78 501	4.7	123 718	.6	93 868	.9	1 318	.8	91 231	1.9
Marathon	60 876	3.2	220 948	.9	78 798	1.4	2 805	1.1	143 337	1.5
Marinette	80 825	9.9	40 372	1.1	63 678	1.4	634	1.0	33 555	4.0
Marquette	53 949	5.9	28 058	1.2	63 193	1.7	444	1.1	22 927	5.6
Menominee	(D)	(D)	(D)	(D)	(D)	(D)	1	–	(D)	(D)
Milwaukee	36 020	4.8	6 803	.8	70 129	1.1	99	2.2	5 583	3.1
Monroe	59 429	5.2	96 457	1.3	62 271	1.8	1 549	1.7	69 687	2.7
Oconto	67 760	4.3	62 404	1.0	67 029	1.3	930	1.0	47 243	2.7
Oneida	71 635	3.6	7 778	1.6	78 562	2.1	100	2.2	5 779	1.8
Outagamie	64 208	3.8	130 219	.8	92 748	1.2	1 403	1.1	96 754	1.7
Ozaukee	68 140	7.0	31 084	1.1	69 384	1.4	449	.9	24 920	5.9
Pepin	61 473	6.6	28 022	1.9	66 877	2.5	418	1.9	21 920	5.4
Pierce	55 526	5.1	72 823	1.3	59 986	1.8	1 215	1.3	59 025	2.5
Polk	46 173	5.5	65 293	1.3	49 315	1.7	1 324	1.1	51 489	2.6
Portage	97 055	4.4	91 068	.7	92 926	1.3	979	1.2	79 044	1.5
Price	33 618	7.6	11 443	1.8	29 721	2.0	385	1.1	8 707	5.4
Racine	68 166	3.9	57 093	.6	94 057	1.0	608	.9	46 681	2.3
Richland	52 492	5.1	63 371	1.4	57 926	1.9	1 094	1.5	48 034	2.9
Rock	69 393	4.1	115 587	.7	82 680	1.1	1 397	1.0	99 269	1.5
Rusk	53 353	10.5	33 678	1.7	52 295	2.1	644	1.3	25 263	5.7
St. Croix	56 799	4.0	93 607	1.1	67 295	1.6	1 391	1.0	78 990	2.1
Sauk	72 126	4.4	113 584	.8	82 129	1.3	1 383	1.1	93 118	2.1
Sawyer	48 047	11.4	9 748	1.5	57 341	1.9	170	2.0	6 491	8.1
Shawano	79 093	4.6	124 594	.9	86 704	1.4	1 438	1.1	84 666	2.1
Sheboygan	70 373	5.2	89 766	.8	83 815	1.1	1 072	1.4	67 272	1.9
Taylor	53 703	5.7	58 705	1.5	63 056	2.0	932	1.6	46 284	3.0
Trempealeau	61 148	5.3	105 992	1.1	74 433	1.9	1 423	2.0	85 955	2.4
Vernon	42 110	4.2	96 785	1.4	46 960	1.9	2 061	1.4	67 874	2.3
Vilas	84 814	5.9	3 594	.6	97 122	1.6	37	5.6	2 809	.9
Walworth	72 298	3.2	92 093	.6	106 098	1.1	868	.9	78 521	1.4
Washburn	43 978	11.1	13 095	1.7	40 418	2.1	324	1.3	11 456	6.5
Washington	78 165	6.1	63 964	.8	75 340	1.2	848	1.2	50 594	2.1
Waukesha	53 174	6.8	44 005	.9	63 684	1.2	690	1.2	35 341	2.3
Waupaca	59 627	4.3	80 141	.9	67 345	1.2	1 190	.9	64 259	2.1
Waushara	87 061	3.8	64 161	.6	102 166	1.3	627	1.5	52 482	1.1
Winnebago	64 719	4.9	58 503	1.2	68 505	1.6	855	1.2	47 063	2.7
Wood	69 423	5.7	82 547	1.1	80 221	1.8	1 028	1.4	58 889	2.6

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 9
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**26 779**	**1.5**	**349 520**	**1.4**	**46 433**	**1.2**	**785 140**	**1.0**	**52 164**	**1.2**	**151 629**	**1.0**
Adams	103	23.0	551	42.0	129	18.5	701	21.9	267	7.0	2 903	7.5
Ashland	78	21.5	207	36.1	112	11.9	559	15.6	65	20.7	23	15.0
Barron	517	8.5	12 333	5.1	1 083	3.3	34 449	2.2	1 121	3.3	2 398	4.1
Bayfield	90	19.9	324	32.6	219	7.2	2 379	10.3	153	16.2	86	20.7
Brown	439	8.1	9 880	5.5	786	3.8	19 581	2.5	875	2.9	2 682	3.8
Buffalo	444	8.0	4 541	9.5	800	3.4	15 896	2.9	797	3.5	1 714	4.7
Burnett	161	11.8	651	13.8	272	7.0	1 901	19.3	244	7.8	289	9.7
Calumet	323	9.4	5 039	6.5	629	3.5	12 888	5.4	649	3.5	2 176	4.9
Chippewa	562	8.5	6 110	15.8	1 141	3.8	22 783	3.9	1 242	3.2	2 611	5.1
Clark	923	5.8	6 845	9.5	1 646	2.7	27 447	3.6	1 638	2.6	3 099	3.9
Columbia	594	6.3	9 979	10.1	881	3.6	13 484	3.2	1 188	2.7	3 717	3.0
Crawford	430	9.5	2 378	13.4	675	4.6	6 162	7.1	780	3.5	1 098	8.4
Dane	925	5.0	19 555	3.4	1 500	2.7	31 567	2.2	1 993	2.0	7 780	2.2
Dodge	807	6.1	14 956	5.7	1 436	2.9	29 664	2.7	1 720	2.2	5 466	2.7
Door	221	12.0	1 076	21.1	418	5.9	4 744	6.4	565	4.1	1 081	5.0
Douglas	74	23.1	288	15.7	182	9.6	1 380	19.3	76	22.6	69	23.2
Dunn	557	7.3	5 891	10.7	875	4.1	19 144	2.6	1 099	3.1	3 153	4.6
Eau Claire	340	10.3	3 543	11.2	546	5.2	8 098	4.4	651	4.2	1 453	5.8
Florence	22	6.9	142	9.4	53	4.9	473	7.8	37	5.6	66	3.9
Fond du Lac	567	6.7	10 075	7.0	1 076	2.6	23 024	3.6	1 338	2.4	4 675	3.0
Forest	35	10.8	956	2.1	73	6.2	1 073	4.2	46	9.7	51	9.4
Grant	1 187	4.4	22 894	6.4	1 897	2.4	33 027	3.2	1 882	2.1	4 664	2.9
Green	627	6.5	8 372	6.1	1 028	2.7	18 776	4.0	1 090	2.5	2 897	2.7
Green Lake	330	9.1	5 450	5.7	476	5.5	7 673	7.0	600	4.2	1 717	4.6
Iowa	567	6.8	13 710	4.2	911	3.9	14 488	3.4	947	3.4	2 687	5.8
Iron	16	6.9	179	3.2	35	5.1	334	3.6	20	6.4	(D)	(D)
Jackson	274	10.5	3 615	15.2	459	6.4	6 442	6.8	572	3.6	1 625	5.2
Jefferson	480	7.5	7 908	5.2	804	4.3	17 935	2.5	972	3.2	3 516	3.6
Juneau	272	10.7	1 700	10.5	466	6.7	5 518	5.9	541	4.0	2 124	3.8
Kenosha	142	15.0	1 611	14.2	195	8.6	2 980	12.4	270	6.6	1 560	3.1
Kewaunee	317	9.5	2 280	13.3	719	3.0	12 084	3.9	748	2.7	2 485	3.0
La Crosse	323	10.6	3 856	23.9	566	4.7	8 436	5.8	615	4.2	1 266	5.7
Lafayette	596	6.5	12 580	5.7	1 033	3.1	20 883	2.6	1 019	3.3	3 439	2.5
Langlade	181	14.0	1 515	23.4	272	7.9	3 570	7.8	336	5.0	1 641	2.0
Lincoln	143	15.9	823	35.2	286	6.7	2 643	7.3	272	6.7	440	27.4
Manitowoc	550	6.4	7 427	7.6	971	2.8	20 708	3.8	1 034	2.9	3 092	3.4
Marathon	903	5.6	8 003	6.3	1 753	2.1	32 185	2.8	2 000	2.7	5 455	5.1
Marinette	245	11.3	2 950	7.9	442	5.0	8 044	5.0	451	4.0	1 218	5.7
Marquette	115	16.4	1 234	12.1	251	8.6	3 465	8.3	354	5.5	1 099	7.6
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	8	41.0	2	48.9	18	21.1	29	51.5	54	8.7	357	3.4
Monroe	618	7.0	4 533	14.1	1 104	3.8	12 481	4.6	1 224	3.2	2 395	5.4
Oconto	277	11.7	2 910	15.3	645	4.8	9 259	4.0	691	3.9	1 676	3.6
Oneida	25	14.9	108	17.1	43	8.2	358	9.2	36	9.2	161	4.5
Outagamie	560	6.9	8 157	6.1	968	3.2	19 972	3.7	1 195	2.3	4 300	3.7
Ozaukee	158	14.8	958	11.6	239	10.8	3 400	8.0	340	5.1	1 079	9.4
Pepin	179	15.5	990	23.9	316	8.7	3 651	13.3	359	4.2	812	8.4
Pierce	484	8.2	6 603	8.6	845	4.3	8 378	5.1	1 001	3.1	2 544	5.9
Polk	572	7.4	4 501	13.4	918	4.0	10 012	4.5	888	4.2	1 424	6.1
Portage	354	9.7	4 222	19.7	600	4.7	6 106	5.6	747	3.6	3 778	2.6
Price	139	15.4	470	37.1	252	7.4	2 076	11.9	147	11.1	141	11.9
Racine	164	14.1	2 368	8.9	273	8.5	5 899	4.5	425	5.9	2 852	2.2
Richland	438	9.2	4 654	8.8	814	4.1	9 440	4.7	795	4.3	1 358	5.3
Rock	573	6.2	11 618	5.9	819	4.4	11 805	3.8	1 142	2.4	4 895	2.5
Rusk	284	11.3	1 678	17.2	438	5.1	7 003	8.7	435	6.0	616	12.4
St. Croix	629	6.8	7 593	6.6	941	4.1	15 793	4.4	964	3.8	2 662	4.0
Sauk	588	7.0	7 636	7.1	982	3.2	21 970	3.3	1 110	2.7	3 005	3.7
Sawyer	70	27.4	325	19.5	104	16.7	655	7.7	98	8.1	363	41.9
Shawano	563	7.0	6 782	11.4	1 075	2.7	18 026	3.7	1 209	2.3	2 673	4.0
Sheboygan	377	10.1	4 689	7.0	714	5.0	13 284	4.4	869	3.3	2 692	4.0
Taylor	421	9.2	3 513	10.3	734	4.4	12 049	3.9	706	4.7	1 214	9.4
Trempealeau	608	7.4	10 360	11.7	1 022	4.4	23 605	2.6	1 103	3.7	2 291	4.4
Vernon	825	6.2	6 301	6.7	1 343	3.3	12 876	4.2	1 591	2.7	2 160	5.5
Vilas	5	16.7	7	19.8	13	10.6	34	14.4	12	9.6	(D)	(D)
Walworth	337	7.9	8 254	5.5	532	5.1	11 777	3.3	605	3.7	4 107	4.1
Washburn	146	16.2	808	16.4	257	6.1	2 174	9.7	195	10.2	338	13.8
Washington	312	9.8	2 773	13.0	586	4.4	8 963	4.1	645	4.0	2 382	3.2
Waukesha	151	16.1	1 031	10.0	332	8.0	3 383	7.0	456	5.5	2 517	2.9
Waupaca	505	7.4	5 536	13.2	829	3.9	12 385	5.7	943	2.8	2 622	5.7
Waushara	237	11.3	3 093	9.0	375	6.2	5 101	5.7	496	3.9	2 478	2.5
Winnebago	319	10.8	2 727	10.8	500	6.1	7 167	5.8	683	4.1	2 119	5.2
Wood	373	10.2	2 894	19.1	706	4.6	9 438	7.2	733	4.6	1 828	14.1

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 10
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**50 843**	**1.2**	**248 410**	**1.0**	**56 383**	**1.1**	**135 926**	**1.0**	**64 978**	**1.1**	**183 421**	**.9**
Adams	271	6.9	4 791	5.1	268	6.4	3 364	10.5	315	3.6	1 690	6.5
Ashland	44	27.5	60	7.5	99	13.5	81	21.2	187	4.2	178	10.6
Barron	1 130	3.5	5 033	3.6	1 228	3.0	1 803	4.4	1 381	2.2	3 938	3.0
Bayfield	186	12.9	254	16.4	150	15.3	107	21.9	343	3.6	530	8.9
Brown	782	3.7	4 272	5.5	965	2.6	1 671	4.2	1 050	1.7	3 346	3.2
Buffalo	727	4.1	2 900	5.6	755	4.7	1 723	8.5	916	2.5	2 603	3.7
Burnett	235	8.4	575	13.6	190	11.4	225	14.6	364	2.0	476	10.9
Calumet	590	4.5	3 006	4.1	676	3.8	1 504	7.3	753	2.5	2 447	3.4
Chippewa	1 227	3.2	4 501	4.3	1 331	3.4	1 892	5.9	1 497	2.2	4 020	3.2
Clark	1 639	2.8	5 644	4.5	1 822	2.3	1 865	5.2	1 923	1.9	4 383	3.7
Columbia	1 124	3.1	6 857	3.2	1 232	2.4	4 697	5.4	1 357	2.0	4 514	3.6
Crawford	761	3.8	1 558	10.2	880	3.0	1 091	16.5	918	2.4	1 918	5.0
Dane	1 995	2.2	12 806	3.4	2 427	1.5	8 019	2.3	2 547	1.3	8 699	1.9
Dodge	1 673	2.5	9 059	3.6	1 741	2.3	4 843	3.5	1 915	1.6	6 695	4.0
Door	538	4.8	1 778	8.7	729	1.7	1 118	11.0	733	1.7	1 408	3.6
Douglas	80	18.9	69	16.8	60	28.0	45	38.6	251	3.4	376	13.8
Dunn	1 096	3.2	5 641	3.8	1 132	3.0	2 707	5.5	1 332	1.5	4 131	3.0
Eau Claire	695	4.0	3 051	5.9	671	4.3	1 501	5.0	827	2.6	1 967	7.1
Florence	41	5.3	121	4.7	70	4.3	71	6.8	70	4.3	124	4.9
Fond du Lac	1 256	2.8	7 436	4.0	1 276	2.8	4 185	4.5	1 490	1.4	4 793	3.0
Forest	48	10.2	127	8.9	101	3.7	109	7.3	109	3.0	224	15.8
Grant	1 797	2.5	8 810	2.9	2 076	2.1	4 408	3.4	2 250	1.5	7 412	2.5
Green	1 031	3.0	5 524	4.3	1 116	2.7	2 778	6.7	1 269	1.2	3 879	3.4
Green Lake	589	4.3	3 197	5.4	555	5.3	1 822	6.6	657	3.0	2 209	4.2
Iowa	933	3.6	4 619	5.8	1 159	2.7	2 702	5.5	1 247	1.9	3 691	3.7
Iron	19	6.0	58	4.7	48	4.4	(D)	(D)	53	4.2	(D)	(D)
Jackson	587	4.1	2 674	4.5	591	4.1	1 669	4.8	674	2.5	2 426	4.1
Jefferson	950	3.4	4 589	5.0	990	3.5	4 362	4.5	1 220	1.5	3 597	2.5
Juneau	485	4.7	3 341	4.3	553	5.0	2 189	4.7	629	2.6	1 984	4.5
Kenosha	278	4.9	2 265	6.1	334	4.8	1 415	5.1	388	3.1	1 419	3.5
Kewaunee	669	4.1	2 663	4.6	779	2.9	1 259	7.7	855	1.8	2 402	3.8
La Crosse	601	5.3	1 817	6.7	742	2.4	1 195	5.0	767	2.2	1 494	5.3
Lafayette	953	3.6	6 524	2.8	1 092	2.6	3 062	3.0	1 180	2.1	4 654	2.4
Langlade	333	5.0	2 920	5.9	300	7.3	1 645	7.3	386	3.1	1 415	5.0
Lincoln	249	8.1	542	8.7	227	9.0	227	22.7	382	2.9	591	5.0
Manitowoc	1 000	3.2	4 690	3.1	1 169	2.3	2 147	3.8	1 295	1.2	3 634	2.3
Marathon	2 207	2.3	7 574	2.6	2 520	1.8	2 779	4.4	2 730	1.3	6 268	3.2
Marinette	441	4.6	1 952	6.9	545	4.1	872	7.7	623	1.4	1 760	8.1
Marquette	356	5.5	1 825	4.7	257	8.5	946	7.9	409	2.8	1 337	5.2
Menominee	–	–	–	–	1	–	(D)	(D)	1	–	(D)	(D)
Milwaukee	62	7.1	199	7.0	71	6.0	(D)	(D)	96	3.5	480	3.8
Monroe	1 180	3.6	3 599	5.2	1 356	2.8	1 926	4.6	1 464	2.1	3 141	3.6
Oconto	698	4.5	3 046	4.7	738	4.5	1 291	6.1	896	2.0	2 410	4.6
Oneida	40	9.0	370	.6	82	4.6	245	1.0	90	3.9	355	2.2
Outagamie	1 108	3.1	6 451	5.2	1 257	2.0	2 880	5.5	1 367	1.4	4 196	3.1
Ozaukee	305	5.2	1 802	12.5	427	2.1	1 216	13.8	443	1.2	1 239	4.7
Pepin	320	8.0	1 700	12.6	341	5.3	902	11.2	403	3.1	995	6.4
Pierce	939	3.6	3 905	4.9	965	3.7	2 056	10.7	1 187	1.7	2 762	3.7
Polk	903	3.8	2 649	6.6	1 024	3.8	1 030	7.9	1 239	2.0	2 354	4.7
Portage	742	3.4	7 911	4.7	818	3.5	4 813	4.7	931	1.8	3 685	2.9
Price	159	11.5	367	13.0	117	15.7	102	22.3	368	2.5	444	7.3
Racine	407	6.6	3 183	6.7	514	4.4	2 670	4.8	575	2.5	3 013	2.4
Richland	738	4.3	2 278	6.4	834	4.2	1 054	6.4	1 067	2.0	2 206	4.3
Rock	1 121	2.6	9 139	3.1	1 201	2.2	6 102	2.7	1 369	1.3	4 942	2.8
Rusk	412	7.0	963	8.7	388	8.8	396	14.3	599	3.1	1 254	8.2
St. Croix	915	4.1	4 526	5.6	1 217	2.6	1 959	3.6	1 304	1.6	3 375	4.2
Sauk	1 043	3.1	4 879	5.1	1 186	2.7	2 957	4.0	1 327	1.7	3 988	3.8
Sawyer	100	10.1	380	5.0	105	11.8	274	7.4	161	4.8	325	9.2
Shawano	1 201	2.6	4 502	4.0	1 261	2.3	1 583	4.3	1 370	1.6	3 600	3.7
Sheboygan	816	3.8	4 608	4.6	950	3.2	2 526	6.5	1 026	2.3	2 768	3.7
Taylor	660	4.0	2 102	5.5	709	4.7	707	12.1	859	2.7	1 924	4.7
Trempealeau	1 063	4.0	4 167	4.7	1 164	3.6	2 094	5.7	1 400	2.2	3 415	3.6
Vernon	1 533	2.9	3 066	5.2	1 829	2.2	1 615	6.0	1 983	1.7	3 077	3.8
Vilas	20	6.7	144	1.1	29	6.4	124	1.7	37	5.6	156	1.6
Walworth	568	4.2	5 247	4.4	675	3.4	4 397	3.8	820	1.6	3 661	2.3
Washburn	202	9.5	727	16.5	199	9.8	355	13.4	308	3.4	638	7.5
Washington	594	4.4	2 837	5.0	589	5.2	1 635	8.3	797	2.0	2 350	3.5
Waukesha	447	6.0	2 770	5.8	534	4.4	1 929	5.7	648	2.7	1 811	3.1
Waupaca	950	2.8	3 844	4.4	959	3.4	1 675	6.8	1 152	1.4	2 860	3.2
Waushara	492	4.0	5 149	3.2	390	5.8	3 215	7.4	589	2.8	2 205	2.4
Winnebago	671	4.0	3 531	5.8	708	3.4	2 240	7.6	821	1.9	2 465	4.4
Wood	818	4.1	3 247	5.8	889	3.3	1 687	11.0	989	2.1	2 630	3.9

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 11
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**58 150**	**1.1**	**118 085**	**1.1**	**27 681**	**1.4**	**362 356**	**.8**	**5 005**	**3.1**	**18 705**	**2.3**
Adams	264	6.5	1 026	2.3	121	17.5	5 157	4.4	22	40.3	169	2.3
Ashland	148	8.0	149	11.7	47	28.4	155	17.9	17	51.5	15	23.5
Barron	1 330	2.5	3 343	2.8	609	7.2	8 031	5.1	132	19.7	270	20.3
Bayfield	258	6.3	392	8.4	109	17.8	559	16.7	59	31.1	106	48.6
Brown	952	2.4	2 716	15.1	483	7.0	7 117	4.5	108	20.2	251	13.7
Buffalo	911	2.5	2 097	3.1	450	7.9	4 552	4.6	40	26.8	124	18.2
Burnett	317	4.5	399	11.1	102	18.6	637	18.3	4	10.3	11	12.5
Calumet	711	2.8	1 831	2.7	389	6.0	4 069	5.6	91	23.1	254	23.0
Chippewa	1 396	2.6	3 413	3.0	687	6.6	6 270	8.2	99	21.4	272	12.8
Clark	1 824	2.1	3 864	3.0	920	5.8	6 462	7.3	166	19.8	398	20.5
Columbia	1 161	2.8	2 041	5.4	519	6.7	6 084	4.4	91	19.1	223	12.3
Crawford	881	2.7	1 292	5.3	390	9.6	3 124	19.2	31	33.1	39	49.1
Dane	2 186	2.0	3 859	1.9	1 166	4.1	17 508	2.2	195	13.3	561	6.8
Dodge	1 749	2.1	3 736	2.5	873	5.2	10 520	4.6	150	17.7	383	8.2
Door	601	3.6	1 118	11.8	306	9.5	4 024	7.6	121	19.6	292	18.7
Douglas	210	5.9	187	17.7	122	15.5	381	24.1	30	39.5	45	28.3
Dunn	1 170	2.4	2 894	4.1	594	6.8	5 944	7.5	101	21.7	245	11.4
Eau Claire	697	3.2	1 427	4.7	351	9.2	4 575	7.5	50	29.2	230	44.7
Florence	63	4.6	64	5.7	26	6.2	123	5.1	5	14.6	7	22.8
Fond du Lac	1 367	2.1	3 053	2.6	655	5.4	8 592	4.4	179	15.0	389	12.6
Forest	92	4.3	90	7.5	39	10.5	112	3.0	8	35.3	23	41.2
Grant	2 084	2.1	4 820	2.9	922	5.4	7 886	4.2	129	15.3	363	6.8
Green	1 135	2.0	2 394	3.2	545	6.6	6 013	6.7	88	22.7	378	39.5
Green Lake	567	5.0	1 065	6.0	217	10.6	2 412	11.0	39	30.8	141	17.4
Iowa	1 149	2.5	2 434	5.1	549	6.7	5 131	4.9	106	15.9	558	18.5
Iron	46	4.4	74	4.4	15	7.0	63	3.4	1	–	(D)	(D)
Jackson	560	4.6	1 316	4.6	351	7.7	5 919	4.3	46	31.7	403	5.0
Jefferson	1 065	2.5	1 855	3.0	455	7.1	10 565	3.5	96	19.0	264	18.0
Juneau	583	3.6	1 348	3.2	191	11.4	4 850	2.9	47	26.1	1 562	1.2
Kenosha	324	5.9	483	6.9	123	14.4	2 301	5.7	41	33.4	63	18.0
Kewaunee	809	2.4	1 720	2.6	380	7.5	5 433	6.0	85	22.5	198	21.8
La Crosse	617	4.1	1 183	6.2	333	9.6	2 717	7.1	86	25.3	118	17.7
Lafayette	1 137	2.5	2 662	2.7	531	6.0	5 352	6.0	56	20.3	160	11.9
Langlade	362	4.7	851	3.8	219	9.5	5 702	3.8	17	30.1	78	.8
Lincoln	312	5.7	416	8.9	124	14.0	1 539	9.2	13	64.2	25	67.6
Manitowoc	1 186	2.1	2 651	1.9	598	5.2	8 360	3.4	92	17.6	346	7.0
Marathon	2 353	1.9	4 524	2.3	1 353	4.2	17 814	3.1	256	13.1	785	10.2
Marinette	560	3.2	1 018	5.8	235	11.2	2 537	9.2	66	30.4	109	35.0
Marquette	323	6.9	559	7.2	129	13.7	2 227	4.0	20	24.4	380	1.0
Menominee	1	–	(D)	(D)	–	–	–	–	–	–	–	–
Milwaukee	80	5.7	113	3.2	24	11.7	1 809	1.4	2	–	(D)	(D)
Monroe	1 321	2.6	2 504	3.9	559	7.8	7 184	5.8	134	20.0	315	22.8
Oconto	822	3.0	1 577	3.5	396	7.8	4 784	7.5	54	27.2	115	17.8
Oneida	74	5.2	135	3.4	47	8.3	1 587	1.9	9	21.1	65	14.9
Outagamie	1 227	2.3	2 821	2.6	511	6.7	7 740	3.9	142	19.6	1 222	4.0
Ozaukee	401	3.7	630	8.0	174	11.9	2 869	10.0	26	42.7	69	14.4
Pepin	379	4.4	643	10.0	183	15.9	1 977	10.4	9	51.7	30	2.8
Pierce	1 120	2.3	1 924	3.5	490	6.9	5 065	11.0	52	24.8	148	10.0
Polk	1 078	3.0	1 884	4.3	561	6.9	4 366	10.1	73	26.9	129	28.9
Portage	789	3.3	2 764	2.0	414	7.4	13 827	1.6	62	23.2	312	17.5
Price	336	4.1	366	6.7	102	16.9	504	12.6	8	59.7	126	56.8
Racine	525	3.5	1 113	3.7	209	11.4	7 582	3.8	38	32.0	173	4.9
Richland	961	3.2	1 684	4.2	444	8.5	4 084	10.9	45	27.5	263	12.4
Rock	1 122	3.0	1 708	2.8	464	6.5	7 128	3.5	85	17.2	449	9.4
Rusk	552	4.1	1 017	6.6	256	12.4	2 061	11.3	72	30.3	217	55.9
St. Croix	1 228	2.4	2 621	2.9	607	6.8	6 164	10.4	101	20.9	421	22.9
Sauk	1 195	2.4	2 380	2.6	554	6.9	7 545	4.3	144	17.4	819	11.0
Sawyer	128	9.7	229	14.3	111	6.2	1 647	19.9	27	49.8	40	18.0
Shawano	1 281	2.1	2 630	2.7	687	5.8	6 552	6.0	81	20.5	167	12.2
Sheboygan	944	2.8	1 870	3.1	442	7.0	7 299	4.4	91	22.9	352	6.1
Taylor	833	3.1	1 894	4.1	372	8.4	3 255	9.8	110	22.8	241	20.6
Trempealeau	1 166	3.6	2 674	3.2	567	7.2	4 560	8.2	127	19.7	373	33.4
Vernon	1 695	2.6	2 521	3.6	855	6.4	3 237	7.7	177	17.3	248	27.2
Vilas	33	5.6	(D)	(D)	18	6.4	942	.4	5	11.8	14	2.0
Walworth	688	3.4	1 418	2.9	326	7.5	7 395	2.6	62	15.9	197	22.6
Washburn	246	5.7	331	12.3	95	21.1	1 067	17.4	45	18.2	85	11.5
Washington	737	3.2	1 246	2.5	335	7.9	5 766	3.6	56	34.3	274	11.7
Waukesha	518	4.7	672	7.5	189	12.1	5 290	3.0	21	30.1	295	2.4
Waupaca	1 053	2.5	1 804	2.9	578	6.2	5 101	7.0	85	20.3	339	32.4
Waushara	483	4.4	1 477	2.1	220	8.6	8 693	1.4	47	26.5	97	7.5
Winnebago	764	3.0	1 356	3.6	274	10.1	3 892	4.4	11	3.6	48	.2
Wood	910	2.6	1 686	5.0	389	8.0	10 565	2.6	21	2.0	143	2.0

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 12
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**60 811**	**1.1**	**322 254**	**1.0**	**31 683**	**1.4**	**64 464**	**1.6**	**38 286**	**1.4**	**346 096**	**1.2**
Adams	290	5.8	2 896	9.1	111	22.0	733	10.1	195	12.8	4 039	7.3
Ashland	176	6.2	204	11.7	33	35.4	20	27.8	69	23.4	164	27.2
Barron	1 312	2.7	7 018	4.4	785	5.5	1 443	7.4	893	4.8	8 388	5.3
Bayfield	335	4.0	891	15.8	79	21.2	84	25.2	186	11.8	803	23.0
Brown	1 002	2.2	6 702	4.2	622	5.6	1 114	7.2	648	4.8	6 522	5.2
Buffalo	887	2.7	5 662	5.8	514	7.4	1 144	7.3	612	5.4	6 174	7.3
Burnett	333	4.0	831	11.0	81	18.9	148	25.3	155	11.4	820	17.2
Calumet	764	2.0	5 239	4.0	491	5.8	1 028	7.3	485	5.7	5 350	6.0
Chippewa	1 399	2.8	7 315	4.3	693	7.0	1 102	10.1	834	5.8	6 139	7.6
Clark	1 920	1.9	8 418	4.0	1 007	5.3	1 705	7.0	1 264	4.1	8 297	6.2
Columbia	1 313	2.2	6 640	3.0	691	5.2	1 641	5.9	767	5.2	6 726	5.2
Crawford	872	3.1	2 880	7.1	354	11.2	365	12.6	582	6.3	3 665	11.1
Dane	2 384	1.6	14 418	2.2	1 244	4.0	2 852	4.4	1 442	3.5	15 860	3.0
Dodge	1 771	2.3	12 241	3.5	963	5.4	2 250	16.2	1 238	4.1	11 252	4.5
Door	714	2.1	3 130	5.0	278	10.6	505	11.2	311	7.4	2 347	10.5
Douglas	244	4.0	566	9.0	58	26.2	32	28.3	93	16.8	341	25.2
Dunn	1 185	2.7	6 619	3.7	696	6.4	1 494	7.3	790	5.3	6 417	5.1
Eau Claire	774	3.7	3 479	4.8	413	8.5	552	10.6	502	6.5	3 555	9.9
Florence	65	4.4	185	5.5	19	8.0	22	13.2	31	6.1	108	9.2
Fond du Lac	1 472	1.6	9 280	3.3	807	5.3	1 753	6.8	1 034	3.5	11 213	4.6
Forest	99	4.1	228	8.5	20	16.4	29	7.8	41	10.8	202	12.5
Grant	2 163	1.8	12 784	2.6	1 197	4.3	2 078	5.0	1 498	3.5	14 627	3.9
Green	1 132	2.7	7 511	4.7	726	5.6	1 642	12.0	813	4.7	9 534	6.0
Green Lake	611	3.5	3 679	5.6	338	9.0	647	10.8	393	8.1	3 799	7.4
Iowa	1 110	2.9	6 441	4.7	602	6.6	1 288	6.4	866	4.3	7 943	5.7
Iron	49	4.2	124	4.1	6	12.6	8	7.6	19	7.0	52	5.0
Jackson	652	2.8	3 977	4.5	353	7.2	860	5.7	432	7.2	4 396	7.5
Jefferson	1 109	2.3	6 109	3.8	638	5.8	1 557	7.0	621	5.9	6 921	5.8
Juneau	592	4.5	3 404	4.4	306	8.7	955	6.3	364	7.6	4 010	6.4
Kenosha	339	5.5	1 671	6.7	136	12.7	519	11.5	193	8.4	1 813	8.1
Kewaunee	840	2.0	5 349	4.1	492	5.9	823	8.5	506	6.2	5 449	7.9
La Crosse	721	2.7	3 010	8.5	400	8.6	494	10.4	386	8.7	3 431	10.6
Lafayette	1 163	1.9	7 727	3.1	694	5.1	1 515	4.7	867	4.5	10 377	3.6
Langlade	354	4.6	2 719	4.7	179	13.2	350	7.9	195	10.9	2 090	6.8
Lincoln	339	5.2	1 318	9.1	168	11.3	169	17.6	170	14.6	849	15.1
Manitowoc	1 158	2.4	7 569	3.2	697	5.0	1 588	6.8	799	4.4	8 323	4.4
Marathon	2 589	1.7	11 487	2.9	1 402	4.4	1 991	5.8	1 487	4.0	11 852	4.5
Marinette	517	4.0	3 170	11.7	203	14.0	314	15.9	334	7.5	2 739	14.3
Marquette	364	4.6	2 372	7.2	135	12.1	428	26.7	222	10.4	1 822	11.5
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	85	4.5	328	3.4	17	24.3	12	8.2	24	14.4	406	2.9
Monroe	1 352	2.8	6 280	3.6	706	6.4	1 132	6.8	900	5.2	7 222	7.4
Oconto	830	3.0	4 098	5.0	433	7.9	707	7.4	557	6.5	4 527	6.6
Oneida	84	4.5	540	3.4	20	16.5	21	6.8	50	9.3	397	4.1
Outagamie	1 252	2.3	7 398	3.2	746	5.1	1 724	6.8	754	5.2	7 448	5.5
Ozaukee	426	3.0	2 255	5.5	148	15.1	471	15.8	146	15.2	1 508	11.9
Pepin	370	4.8	1 889	7.0	253	11.9	557	24.9	221	13.5	2 186	16.3
Pierce	1 085	2.7	5 228	5.0	649	6.5	977	10.6	667	5.8	4 859	7.5
Polk	1 169	2.4	3 902	5.2	589	7.1	1 060	18.0	774	5.3	5 068	7.8
Portage	857	2.7	6 100	3.1	370	8.0	1 400	4.7	498	6.6	5 447	4.8
Price	345	4.1	962	8.3	93	18.9	77	31.7	189	11.7	800	10.2
Racine	508	4.0	3 133	6.2	200	11.4	423	5.5	297	8.2	2 808	4.8
Richland	963	3.0	3 724	5.0	542	7.8	824	7.2	578	6.9	4 097	9.3
Rock	1 221	2.2	6 401	3.0	480	6.1	1 706	6.4	800	4.5	8 188	3.6
Rusk	587	3.4	2 115	10.3	249	13.4	259	13.9	322	9.3	1 661	13.5
St. Croix	1 198	2.6	6 023	4.4	614	6.7	1 213	18.9	796	5.2	7 778	5.8
Sauk	1 239	2.4	7 025	4.3	601	6.4	1 289	9.0	783	4.8	8 437	6.3
Sawyer	150	6.3	399	10.7	28	48.0	19	7.4	91	17.1	355	21.0
Shawano	1 312	2.1	7 031	4.0	632	6.3	1 498	12.1	824	4.9	7 735	5.6
Sheboygan	954	3.0	5 428	4.1	601	6.7	1 179	9.4	602	6.3	4 931	5.1
Taylor	848	2.8	4 115	5.1	553	6.6	845	9.5	652	5.2	4 233	7.2
Trempealeau	1 323	2.8	6 289	4.7	717	6.4	1 279	7.8	832	5.6	6 755	6.6
Vernon	1 805	2.2	5 343	4.6	998	4.9	1 341	9.3	1 169	4.3	8 020	5.5
Vilas	34	5.7	326	1.2	5	12.7	15	.9	12	7.3	295	.5
Walworth	764	2.6	4 962	3.8	372	6.9	1 111	6.6	511	5.1	5 309	3.6
Washburn	256	6.8	1 161	9.0	133	13.4	141	18.4	153	10.5	1 023	13.2
Washington	782	2.3	4 195	5.2	349	8.3	833	13.2	412	8.1	4 038	11.3
Waukesha	589	4.0	2 579	5.4	304	8.6	1 173	3.9	257	9.7	2 070	6.2
Waupaca	1 085	2.1	5 464	5.3	543	5.9	962	8.7	706	4.4	6 073	6.6
Waushara	543	3.4	3 544	2.7	241	9.9	966	4.9	366	6.9	4 176	3.9
Winnebago	780	2.6	4 206	4.7	382	8.4	798	13.9	454	7.7	4 514	7.8
Wood	902	2.8	4 551	4.5	484	8.4	1 213	5.4	552	6.8	5 319	9.5

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 13
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**24 391**	**1.6**	**175 487**	**1.5**	**62 831**	**1.0**	**244 429**	**.9**	**64 346**	**1.1**	**523 816**	**1.1**
Adams	165	15.1	2 588	18.5	327	3.3	1 627	4.2	314	3.7	4 016	3.1
Ashland	25	39.3	143	63.6	198	1.6	367	8.6	180	5.9	445	11.1
Barron	589	6.9	2 569	7.7	1 403	2.1	4 651	3.1	1 378	2.2	11 953	4.3
Bayfield	111	16.9	152	14.0	353	2.2	853	7.3	327	4.7	1 598	14.1
Brown	485	6.9	3 025	6.1	1 062	1.8	3 814	3.4	1 065	1.6	10 842	4.8
Buffalo	303	11.0	1 983	16.5	908	2.7	3 982	4.4	948	2.0	8 454	6.0
Burnett	113	16.5	411	27.9	344	3.4	740	6.5	340	3.3	1 382	13.9
Calumet	308	8.4	2 066	7.6	769	1.9	3 188	3.6	778	1.8	7 733	5.2
Chippewa	487	8.8	2 582	13.2	1 471	2.4	4 724	3.9	1 524	2.2	13 212	4.9
Clark	691	7.1	2 320	11.6	1 898	2.1	5 949	3.0	1 959	1.6	13 928	4.8
Columbia	498	7.1	5 391	5.0	1 302	2.0	5 433	4.2	1 362	1.9	9 413	5.4
Crawford	288	12.4	1 997	21.1	844	3.7	2 490	5.8	942	2.2	5 230	8.7
Dane	1 043	4.4	12 752	5.6	2 345	1.7	11 507	2.3	2 500	1.3	21 564	1.5
Dodge	729	6.0	6 287	5.7	1 847	2.0	8 990	3.6	1 943	1.5	16 792	2.8
Door	278	8.2	1 062	17.4	750	1.4	2 044	4.8	727	1.9	4 311	6.5
Douglas	61	19.9	22	32.1	254	2.4	372	9.0	248	3.2	482	10.6
Dunn	491	7.5	3 209	10.7	1 320	1.7	5 544	3.9	1 325	1.6	10 752	4.8
Eau Claire	302	10.7	1 680	14.1	806	2.9	2 577	5.1	831	2.6	4 873	5.7
Florence	28	5.9	39	7.8	72	4.3	222	4.5	67	4.4	387	5.6
Fond du Lac	673	5.7	5 170	8.5	1 399	2.1	5 987	3.9	1 521	1.3	14 706	3.6
Forest	20	13.5	21	15.6	110	2.4	222	6.4	105	3.7	376	6.4
Grant	682	6.4	5 349	6.4	2 115	1.9	8 747	2.6	2 231	1.6	17 395	3.3
Green	433	8.5	3 623	6.9	1 129	2.8	5 465	3.6	1 214	1.6	12 434	3.6
Green Lake	244	11.8	2 435	17.7	627	3.5	2 313	5.4	650	3.2	4 829	5.8
Iowa	415	8.5	3 682	7.9	1 151	2.9	5 967	3.7	1 223	2.0	11 417	5.3
Iron	12	6.4	(D)	(D)	52	4.2	(D)	(D)	52	4.2	495	1.0
Jackson	329	8.0	2 540	11.6	665	2.5	2 839	3.8	697	2.3	8 590	5.4
Jefferson	475	6.7	3 612	6.7	1 161	2.1	4 738	3.3	1 214	1.6	8 838	3.0
Juneau	268	10.3	2 527	7.2	608	3.2	2 326	5.1	640	1.6	5 252	3.8
Kenosha	158	11.9	2 896	5.7	389	3.5	1 804	5.6	389	3.5	2 974	5.3
Kewaunee	356	8.4	1 977	9.6	863	1.5	3 126	2.9	877	1.3	8 578	5.6
La Crosse	261	11.9	1 270	11.7	720	2.9	2 444	5.0	717	2.8	4 301	7.1
Lafayette	416	7.6	4 872	5.4	1 091	2.4	6 644	3.1	1 208	1.7	11 895	4.5
Langlade	156	14.9	1 335	6.5	401	2.5	1 688	3.9	390	2.5	4 743	6.0
Lincoln	135	15.6	219	18.0	384	2.7	968	6.4	365	3.8	1 651	8.5
Manitowoc	594	5.3	3 232	5.7	1 234	1.7	4 777	3.2	1 258	1.5	12 688	5.3
Marathon	962	5.3	3 288	4.1	2 631	1.5	7 642	2.2	2 706	1.4	21 690	2.9
Marinette	236	11.6	808	18.0	626	1.4	2 102	5.3	607	1.7	3 962	8.6
Marquette	121	13.8	831	19.5	428	2.1	1 413	3.9	437	1.7	2 990	7.8
Menominee	–	–	–	–	1	–	(D)	(D)	–	–	–	–
Milwaukee	37	14.0	181	12.7	83	4.9	317	5.3	82	5.8	1 209	12.0
Monroe	398	9.7	1 534	13.7	1 470	2.2	5 524	4.2	1 463	2.1	9 916	4.7
Oconto	302	9.5	1 488	9.0	894	1.8	2 860	5.1	876	2.4	6 495	7.6
Oneida	12	17.5	77	3.4	95	2.6	365	3.1	90	3.7	997	2.4
Outagamie	579	6.0	3 597	7.2	1 342	1.7	5 295	3.6	1 338	1.6	13 552	4.1
Ozaukee	180	12.8	1 567	14.0	413	3.2	1 867	6.9	424	2.3	3 991	20.3
Pepin	163	17.6	968	24.8	377	4.9	1 509	7.6	395	3.3	3 111	9.6
Pierce	447	8.4	2 906	12.0	1 157	2.0	4 564	4.3	1 147	2.1	7 105	4.8
Polk	402	9.1	1 422	19.7	1 303	1.4	3 766	3.8	1 238	2.0	7 923	5.8
Portage	341	8.2	3 763	3.8	930	2.0	4 380	3.2	907	2.3	10 538	2.5
Price	126	15.5	92	14.9	385	1.1	887	13.2	337	4.0	1 293	6.4
Racine	265	8.1	4 438	5.9	474	4.6	2 521	4.8	516	3.5	4 503	5.9
Richland	337	10.0	1 559	15.9	1 015	2.5	3 962	4.4	987	3.0	6 847	8.3
Rock	603	5.7	9 700	3.7	1 241	2.3	6 215	3.7	1 314	1.7	9 273	2.1
Rusk	236	13.3	594	23.2	600	3.1	1 475	6.2	621	2.4	3 956	12.2
St. Croix	486	8.0	2 889	10.9	1 300	2.1	5 795	4.1	1 277	1.8	10 177	6.7
Sauk	475	7.8	4 117	12.3	1 245	2.4	5 304	3.7	1 348	1.6	11 767	6.5
Sawyer	56	26.6	78	17.6	170	2.0	396	6.3	161	4.8	1 006	4.7
Shawano	579	6.2	2 677	11.6	1 347	1.8	4 628	2.6	1 354	1.7	14 579	3.7
Sheboygan	516	5.6	3 468	8.2	975	2.7	3 727	4.1	1 032	2.0	8 452	5.4
Taylor	335	8.8	634	10.1	919	1.8	2 388	3.8	898	2.2	7 170	6.2
Trempealeau	410	9.6	2 530	11.8	1 267	2.9	4 549	3.9	1 371	2.4	11 015	5.7
Vernon	522	8.6	1 757	10.0	1 863	2.3	6 041	3.3	1 934	1.8	10 272	4.4
Vilas	5	12.8	(D)	(D)	34	5.7	174	3.3	33	5.7	405	.7
Walworth	364	7.0	6 827	5.6	767	2.4	4 327	4.2	795	2.2	9 533	3.5
Washburn	136	6.6	371	21.9	315	2.4	653	7.2	282	4.8	1 585	12.2
Washington	381	7.9	2 736	5.9	732	3.5	3 989	5.4	777	2.6	6 579	4.2
Waukesha	274	7.0	2 843	5.8	597	3.7	2 946	6.6	599	3.7	4 030	4.5
Waupaca	492	6.2	2 908	11.3	1 137	1.8	4 193	3.7	1 148	1.5	8 493	3.2
Waushara	234	9.1	3 284	5.0	591	2.4	2 762	4.2	583	2.9	6 241	3.1
Winnebago	377	7.9	2 698	10.5	785	2.9	3 202	5.0	816	2.0	6 101	8.8
Wood	380	9.7	1 698	19.9	950	2.7	3 459	3.5	944	2.3	8 532	5.0

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 14
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**67 964**	**1.1**	**1 230 986**	**1.2**	**64 229**	**1.0**	**10 948 614**	**.9**	**61 125**	**1.0**	**8 843 649**	**.9**
Adams	341	1.2	4 532	15.9	318	1.0	87 504	.9	298	1.0	69 130	.9
Ashland	198	1.6	(D)	(D)	193	1.4	28 772	2.0	176	1.5	19 711	2.3
Barron	1 474	1.4	28 165	5.4	1 403	1.6	234 856	1.6	1 342	1.6	188 502	1.6
Bayfield	361	1.4	2 090	32.7	357	1.2	54 219	1.7	340	1.3	39 305	1.9
Brown	1 100	1.2	25 506	4.5	1 024	1.1	176 139	1.1	990	1.1	156 835	1.0
Buffalo	981	1.2	17 942	7.9	933	1.1	176 959	1.1	886	1.2	132 903	1.1
Burnett	370	1.2	2 546	15.4	346	1.3	49 009	2.1	323	1.4	34 682	2.2
Calumet	795	1.2	20 535	5.3	745	1.0	140 254	1.1	723	1.0	125 145	1.1
Chippewa	1 572	1.8	30 641	4.9	1 510	1.6	254 961	1.5	1 439	1.7	196 075	1.5
Clark	2 010	1.5	39 604	4.7	1 931	1.8	293 967	1.7	1 862	1.8	231 205	1.7
Columbia	1 444	1.3	17 937	9.1	1 359	1.1	260 747	1.1	1 314	1.1	218 866	1.1
Crawford	977	1.5	10 067	14.6	910	1.4	120 514	1.6	867	1.5	90 609	1.7
Dane	2 639	.9	83 606	2.0	2 490	.8	451 122	.7	2 373	.8	378 682	.7
Dodge	2 004	1.3	50 334	3.1	1 881	1.0	352 875	.9	1 824	1.0	309 499	.9
Door	761	1.0	8 197	6.5	741	.9	101 313	1.3	723	.9	84 974	1.3
Douglas	260	1.4	659	27.1	245	1.2	34 317	2.2	230	1.4	23 568	2.4
Dunn	1 383	.9	22 191	6.4	1 306	1.0	248 865	.9	1 224	1.0	193 759	.9
Eau Claire	885	1.5	11 229	9.1	853	1.4	135 450	1.3	778	1.4	100 495	1.3
Florence	78	4.1	239	19.0	75	1.5	11 746	2.7	67	2.0	7 130	3.3
Fond du Lac	1 554	1.0	38 875	3.9	1 465	.9	300 707	.9	1 408	.9	263 566	.9
Forest	115	2.2	547	19.5	108	1.1	12 914	2.3	100	1.3	7 572	2.3
Grant	2 341	1.3	52 113	4.2	2 159	1.2	400 489	1.1	2 048	1.2	313 561	1.1
Green	1 271	1.2	27 477	6.3	1 196	1.2	241 533	1.2	1 151	1.2	199 948	1.2
Green Lake	705	1.3	11 445	8.9	677	.9	131 728	1.0	642	.9	108 964	1.0
Iowa	1 327	1.5	25 621	5.4	1 201	1.3	231 303	1.3	1 108	1.4	161 291	1.2
Iron	55	4.1	341	6.3	53	1.3	5 065	2.7	50	1.8	3 571	2.8
Jackson	719	1.7	13 634	7.8	694	1.5	125 241	1.5	661	1.5	94 687	1.6
Jefferson	1 281	.9	20 330	4.8	1 200	.7	189 251	.9	1 163	.8	158 618	.9
Juneau	675	1.4	10 982	6.0	652	1.3	123 129	1.3	622	1.3	103 139	1.3
Kenosha	422	1.1	3 605	22.4	389	.8	82 049	1.0	358	.9	70 633	1.0
Kewaunee	893	.9	22 648	4.2	857	1.2	140 130	1.2	835	1.2	124 050	1.2
La Crosse	789	1.1	10 513	8.9	749	1.0	100 571	1.2	717	1.0	80 407	1.2
Lafayette	1 235	1.5	34 154	3.9	1 143	1.3	282 410	1.0	1 094	1.3	222 847	1.0
Langlade	417	1.1	9 720	5.8	398	1.2	82 837	.9	370	1.2	62 443	1.0
Lincoln	399	1.4	3 835	13.6	384	1.4	46 674	2.0	358	1.6	32 167	2.1
Manitowoc	1 318	.8	30 794	4.0	1 235	.7	209 944	.6	1 199	.7	185 230	.6
Marathon	2 805	1.1	78 215	2.5	2 703	1.1	345 667	.9	2 632	1.1	277 997	.9
Marinette	634	1.0	9 833	13.9	609	.9	91 576	1.2	579	.9	71 363	1.2
Marquette	444	1.1	4 608	15.0	422	1.2	93 144	1.2	395	1.3	66 212	1.3
Menominee	1	–	(D)	(D)	–	–	–	–	–	–	–	–
Milwaukee	99	2.2	1 246	8.5	92	1.1	7 664	2.7	91	1.1	6 561	2.9
Monroe	1 549	1.7	25 298	6.3	1 467	1.2	188 677	1.4	1 413	1.2	146 570	1.4
Oconto	930	1.0	14 290	9.5	903	.9	152 413	1.0	868	.9	122 611	1.0
Oneida	100	2.2	2 285	5.7	89	1.7	13 489	2.2	75	2.3	7 623	3.4
Outagamie	1 403	1.1	32 562	3.7	1 327	.9	224 995	.9	1 278	.9	195 202	.9
Ozaukee	449	.9	6 248	15.5	410	1.1	67 860	1.4	383	1.2	57 918	1.3
Pepin	418	1.9	5 185	20.1	400	1.6	73 019	1.8	385	1.7	61 308	1.8
Pierce	1 215	1.3	13 301	11.2	1 143	1.3	197 622	1.3	1 066	1.3	156 852	1.3
Polk	1 324	1.1	14 473	9.2	1 260	1.1	183 789	1.2	1 177	1.1	138 929	1.3
Portage	979	1.2	12 083	8.0	947	1.1	192 121	.8	898	1.1	156 563	.8
Price	385	1.1	2 492	15.4	376	.9	39 745	1.5	361	1.0	27 137	1.7
Racine	608	.9	10 755	9.3	565	.9	120 838	.8	541	.9	108 625	.8
Richland	1 094	1.5	14 199	7.1	1 033	1.4	144 947	1.6	957	1.5	107 066	1.6
Rock	1 397	1.0	17 329	7.0	1 313	.9	305 218	.8	1 235	1.0	268 107	.7
Rusk	644	1.3	8 262	12.9	607	1.3	90 665	1.7	577	1.4	61 962	1.7
St. Croix	1 391	1.0	17 912	7.6	1 316	1.2	244 807	1.2	1 186	1.2	180 389	1.2
Sauk	1 383	1.1	20 440	8.0	1 304	1.0	223 668	1.0	1 235	1.0	178 085	1.0
Sawyer	170	2.0	2 898	23.3	165	1.3	27 305	1.5	159	1.4	17 254	1.8
Shawano	1 438	1.1	41 271	3.7	1 390	1.0	207 174	1.1	1 354	1.0	175 831	1.1
Sheboygan	1 072	1.4	24 267	6.0	994	.8	178 206	.9	951	.8	158 808	.9
Taylor	932	1.6	12 549	8.2	874	1.4	129 799	1.6	823	1.4	93 829	1.5
Trempealeau	1 423	2.0	20 275	8.0	1 308	1.5	225 177	1.4	1 215	1.5	169 922	1.5
Vernon	2 061	1.4	28 398	5.3	1 957	1.2	214 322	1.4	1 883	1.2	159 781	1.5
Vilas	37	5.6	785	1.8	34	2.5	3 731	3.9	30	3.2	2 091	3.6
Walworth	868	.9	13 918	5.8	778	1.0	200 422	.8	734	1.0	178 851	.8
Washburn	324	1.3	944	75.7	296	1.3	43 007	1.6	275	1.4	29 679	1.6
Washington	848	1.2	13 954	8.0	804	.9	123 763	.9	762	.9	109 500	.9
Waukesha	690	1.2	7 641	11.3	651	.9	96 441	1.2	599	1.0	82 953	1.3
Waupaca	1 190	.9	13 653	8.6	1 123	.8	175 235	.9	1 065	.9	142 615	1.0
Waushara	627	1.5	11 704	3.9	589	1.2	120 663	1.0	547	1.2	98 667	1.0
Winnebago	855	1.2	11 677	10.2	829	1.1	145 112	1.0	792	1.0	124 209	1.1
Wood	1 028	1.4	23 119	6.4	971	1.4	136 769	1.5	941	1.4	108 810	1.5

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 15
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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			
					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)
Wisconsin	**2 146**	**.9**	**330 838**	**.4**	**46 052**	**1.1**	**3 866 998**	**.9**	**10 394**	**1.0**	**195 810**	**.9**
Adams	65	2.5	38 008	.5	159	1.8	9 409	3.0	70	3.0	1 229	3.4
Ashland	–	–	–	–	138	2.0	5 822	2.7	59	4.1	728	5.5
Barron	40	4.0	11 498	.7	1 117	1.7	86 598	1.7	230	2.2	3 058	2.7
Bayfield	18	9.1	74	12.7	215	1.9	12 005	2.4	98	3.5	1 384	4.8
Brown	23	5.2	307	5.5	812	1.2	88 608	1.0	86	3.2	889	4.7
Buffalo	15	4.9	2 134	2.2	773	1.3	73 607	1.1	246	1.9	5 355	2.2
Burnett	8	10.0	281	17.2	248	1.7	13 550	2.5	98	2.8	1 538	4.6
Calumet	13	7.5	304	12.6	591	1.2	58 402	1.0	62	3.2	1 096	2.1
Chippewa	28	4.5	3 267	2.0	1 260	1.7	100 500	1.6	215	2.2	2 729	2.8
Clark	16	7.7	505	13.0	1 620	1.9	125 887	1.8	238	2.2	2 655	3.0
Columbia	46	4.2	3 137	3.2	802	1.2	64 363	1.2	201	2.2	5 130	3.0
Crawford	25	7.0	733	12.9	723	1.6	48 761	1.7	216	2.3	5 135	2.7
Dane	86	2.8	5 875	1.9	1 424	.9	150 513	.7	248	1.9	3 805	2.4
Dodge	27	4.8	2 430	4.7	1 348	1.1	143 107	.8	142	2.5	2 881	2.5
Door	32	5.3	1 180	3.0	400	1.5	26 655	1.6	58	4.0	573	5.6
Douglas	5	15.9	6	17.7	166	1.9	7 794	2.6	118	2.7	2 500	3.7
Dunn	57	2.8	16 006	1.5	1 017	1.1	80 532	1.1	280	1.9	4 298	2.4
Eau Claire	27	5.4	3 120	1.5	631	1.6	46 626	1.6	154	2.3	2 853	3.0
Florence	3	15.2	(D)	(D)	49	3.1	2 562	4.6	21	6.7	348	13.0
Fond du Lac	25	5.0	1 484	4.1	1 048	1.0	104 943	.9	91	2.9	2 268	1.8
Forest	2	14.4	(D)	(D)	73	2.1	7 582	1.3	33	4.6	539	5.1
Grant	21	6.9	360	4.1	1 896	1.2	195 510	1.1	671	1.6	20 935	1.6
Green	27	6.3	4 253	4.8	1 008	1.3	96 317	1.2	176	2.9	4 020	3.1
Green Lake	30	5.0	2 469	3.3	433	1.3	41 043	1.2	60	3.9	1 163	5.1
Iowa	34	5.0	6 398	1.9	1 000	1.4	103 507	1.3	333	2.0	11 713	2.0
Iron	3	16.8	(D)	(D)	28	3.8	1 659	2.2	10	7.0	73	10.2
Jackson	48	3.3	3 630	1.3	487	1.7	41 395	1.8	106	2.9	2 003	3.6
Jefferson	41	3.6	5 256	1.6	707	1.1	53 981	1.0	144	2.6	1 955	3.6
Juneau	28	5.9	14 652	1.1	442	1.6	33 402	1.9	121	3.3	2 355	5.1
Kenosha	28	5.0	1 736	4.0	166	1.8	13 397	1.8	40	4.7	710	6.1
Kewaunee	8	9.7	138	14.9	666	1.4	58 416	1.4	75	3.1	707	5.9
La Crosse	12	7.4	375	11.3	561	1.2	41 371	1.3	192	2.2	3 846	2.4
Lafayette	9	8.6	409	4.4	1 017	1.3	117 053	1.0	302	1.8	10 337	2.1
Langlade	53	2.7	13 614	.6	256	1.6	18 698	1.7	51	4.3	879	4.8
Lincoln	13	7.1	272	4.8	291	1.8	15 243	2.1	89	3.1	722	4.7
Manitowoc	25	5.5	551	7.3	919	.9	93 975	.7	92	3.0	804	4.6
Marathon	69	3.6	4 232	2.2	1 791	1.0	141 967	1.0	284	1.9	3 538	2.6
Marinette	22	6.4	1 428	4.0	426	1.3	34 955	1.2	116	3.0	1 433	3.9
Marquette	41	4.0	5 001	2.9	226	2.0	18 256	1.6	71	3.6	960	4.2
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	26	3.6	173	4.7	15	7.7	208	12.9	10	9.9	(D)	(D)
Monroe	51	3.2	2 462	1.8	1 199	1.4	79 998	1.5	279	1.9	4 914	2.5
Oconto	16	8.6	977	4.4	662	1.1	54 798	1.2	130	3.0	1 814	4.5
Oneida	18	4.8	1 786	.6	37	4.6	1 281	4.0	27	5.9	(D)	(D)
Outagamie	26	5.3	149	10.5	920	1.1	94 710	.9	116	2.7	1 528	3.1
Ozaukee	14	5.9	228	2.7	210	1.7	20 462	1.4	38	4.7	533	4.3
Pepin	4	12.5	323	10.9	296	2.0	23 989	2.0	57	4.3	1 201	5.3
Pierce	13	10.9	615	16.0	854	1.4	65 246	1.4	277	2.4	6 370	2.7
Polk	13	8.9	697	5.9	915	1.3	60 498	1.4	281	2.2	4 198	3.0
Portage	161	1.8	68 189	.6	598	1.4	42 669	1.4	161	2.4	2 818	2.7
Price	2	14.1	(D)	(D)	266	1.3	13 013	2.2	108	2.7	1 246	4.1
Racine	47	3.6	3 447	1.5	222	1.8	16 158	1.6	56	4.1	692	6.3
Richland	17	5.9	1 787	4.2	823	1.5	57 869	1.6	275	1.9	5 346	2.3
Rock	68	2.9	9 234	1.5	722	1.2	62 982	1.0	199	2.1	4 290	2.5
Rusk	10	10.8	242	17.9	493	1.5	33 786	1.7	152	2.9	2 263	3.7
St. Croix	43	3.6	6 433	1.9	973	1.3	77 147	1.3	291	1.8	5 939	2.5
Sauk	62	3.4	8 034	2.2	996	1.1	93 166	1.0	268	1.9	6 038	2.4
Sawyer	19	5.8	809	1.1	120	1.9	8 314	1.7	51	3.6	867	3.5
Shawano	22	6.9	604	11.1	1 138	1.1	94 723	1.1	146	2.6	1 699	4.1
Sheboygan	11	8.3	45	9.8	664	1.0	65 379	1.0	86	3.1	2 148	2.8
Taylor	3	19.0	11	21.0	751	1.5	55 365	1.5	134	2.7	1 834	3.1
Trempealeau	25	3.8	5 227	2.2	992	1.7	79 175	1.5	268	2.2	4 961	2.3
Vernon	11	10.4	579	17.0	1 489	1.3	94 310	1.4	312	1.8	4 876	2.8
Vilas	10	6.4	829	.4	5	17.9	119	26.4	3	26.4	74	26.8
Walworth	35	4.9	1 435	6.0	411	1.4	48 094	1.2	83	3.5	1 334	5.2
Washburn	21	5.5	1 689	2.6	211	1.8	14 058	2.3	80	3.3	2 098	3.2
Washington	29	5.4	442	3.8	527	1.2	41 978	1.1	93	3.1	1 076	5.2
Waukesha	50	3.7	4 220	.6	267	1.7	16 714	1.6	87	3.4	1 050	4.7
Waupaca	45	4.6	6 661	2.6	784	1.1	61 324	1.1	124	3.0	1 619	5.6
Waushara	111	2.4	42 777	1.1	339	1.6	21 421	1.6	82	3.3	856	4.3
Winnebago	22	5.3	861	7.0	466	1.5	39 001	1.4	56	3.8	535	6.3
Wood	68	2.7	3 813	2.0	753	1.5	51 072	1.6	167	2.5	2 077	2.9

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 16
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**30 156**	**1.3**	**1 521 969**	**1.0**	**6 760**	**1.1**	**1 173 783**	**.7**	**2 444**	**1.2**	**84 956**	**1.7**
Adams	64	3.3	2 635	3.5	34	5.2	615	11.0	12	10.4	133	23.3
Ashland	68	2.9	2 109	3.4	22	7.6	220	8.0	3	19.9	(D)	(D)
Barron	869	2.0	39 292	1.8	92	3.4	7 537	2.3	52	4.6	1 714	6.4
Bayfield	112	2.8	4 294	3.0	24	7.1	1 231	19.1	13	10.4	1 076	21.2
Brown	581	1.5	35 596	1.1	71	3.6	3 032	6.2	31	5.3	383	10.6
Buffalo	497	1.5	27 480	1.2	116	2.8	18 096	2.6	28	5.9	1 071	10.2
Burnett	141	2.4	4 997	2.9	51	4.2	3 780	6.1	18	7.0	361	11.2
Calumet	459	1.3	26 190	1.1	51	3.8	3 720	2.6	21	6.0	324	9.2
Chippewa	956	2.0	46 863	1.7	96	3.3	3 990	4.8	28	6.3	719	9.3
Clark	1 302	2.1	59 518	1.9	166	3.6	14 528	4.1	64	4.1	1 846	6.1
Columbia	413	1.7	20 328	1.4	212	2.0	54 393	1.5	100	3.1	3 959	3.8
Crawford	437	2.1	16 981	1.9	146	3.0	24 264	3.0	23	7.3	599	10.0
Dane	873	1.1	58 420	.9	273	1.7	67 572	1.2	119	2.8	6 014	6.5
Dodge	949	1.3	54 930	1.0	276	1.9	73 657	1.7	59	4.2	1 754	7.9
Door	280	1.8	12 578	1.8	51	4.0	2 392	9.2	23	6.5	728	8.5
Douglas	44	4.5	1 721	4.0	13	10.1	(D)	(D)	22	7.1	718	9.7
Dunn	669	1.4	33 077	1.2	134	2.8	21 031	1.7	38	5.6	1 132	7.0
Eau Claire	426	1.9	17 949	1.6	72	3.7	2 984	4.1	15	7.4	311	11.5
Florence	24	5.1	808	6.1	4	9.3	22	6.8	3	17.2	6	25.4
Fond du Lac	779	1.2	45 481	1.0	139	2.3	33 172	1.7	36	4.8	1 962	5.3
Forest	25	4.6	852	5.0	10	8.5	80	15.1	7	7.9	202	3.0
Grant	1 089	1.5	58 995	1.3	580	1.5	170 466	1.1	97	3.5	3 427	5.2
Green	728	1.5	40 379	1.4	209	2.6	63 949	1.5	57	5.1	2 910	8.8
Green Lake	286	1.6	15 009	1.5	99	2.9	17 308	3.1	26	5.9	491	7.7
Iowa	631	1.6	33 213	1.5	176	2.4	36 089	1.9	57	4.5	3 303	8.4
Iron	15	3.3	451	3.7	5	15.1	108	26.4	2	26.0	(D)	(D)
Jackson	332	2.1	15 810	1.8	57	3.8	7 190	2.2	22	6.4	1 520	13.6
Jefferson	387	1.4	19 801	1.3	143	2.4	21 635	2.6	64	3.8	1 362	6.4
Juneau	262	2.2	12 331	2.0	75	4.3	4 502	5.8	24	7.9	1 090	11.3
Kenosha	90	2.4	4 836	2.2	47	3.6	9 758	3.4	24	6.2	676	10.2
Kewaunee	534	1.6	28 279	1.4	90	2.8	8 225	3.5	14	7.0	124	13.4
La Crosse	316	1.6	15 396	1.5	107	3.0	30 133	1.3	24	6.6	763	13.1
Lafayette	648	1.5	39 947	1.3	274	1.8	87 737	1.6	61	4.4	2 097	5.5
Langlade	167	2.0	8 518	1.9	29	6.5	304	8.8	11	9.8	182	13.8
Lincoln	168	2.4	6 845	2.3	20	7.3	496	19.1	13	9.5	152	14.6
Manitowoc	708	1.0	41 371	.8	100	2.7	8 818	3.1	50	4.1	944	6.1
Marathon	1 338	1.2	65 892	1.0	112	3.2	6 811	4.8	71	4.0	1 973	5.7
Marinette	271	1.7	13 171	1.6	68	4.3	3 310	7.0	13	9.6	158	13.3
Marquette	114	2.5	6 246	1.9	45	4.3	13 501	2.8	25	6.6	1 713	15.2
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	2	25.1	(D)	(D)	3	22.4	8	27.1	1	40.8	(D)	(D)
Monroe	780	1.8	33 056	1.7	131	2.7	6 898	3.5	55	4.0	3 099	9.3
Oconto	464	1.4	23 671	1.2	64	4.5	6 197	3.9	19	8.6	471	18.7
Oneida	7	12.2	(D)	(D)	12	9.2	106	16.8	3	18.6	8	30.4
Outagamie	655	1.3	39 512	1.1	133	2.4	19 873	2.0	37	5.5	617	8.2
Ozaukee	133	1.9	8 604	1.5	37	4.0	2 972	5.9	13	8.2	484	12.5
Pepin	211	2.4	9 575	2.2	41	4.9	4 721	5.7	8	12.2	277	22.2
Pierce	470	1.8	21 730	1.7	135	3.2	18 392	3.5	45	5.9	3 078	13.1
Polk	543	1.6	23 800	1.5	94	3.7	5 445	4.9	64	4.6	1 851	8.9
Portage	363	1.8	15 663	1.7	74	3.5	9 520	4.0	35	5.3	1 515	9.7
Price	147	1.8	4 441	1.9	20	7.0	180	8.6	11	8.9	797	17.0
Racine	104	2.6	5 461	2.2	46	4.1	9 376	4.5	49	4.3	818	5.6
Richland	497	2.0	20 889	1.8	88	3.1	21 370	1.2	60	4.0	2 490	7.1
Rock	321	1.6	17 954	1.2	190	2.1	37 210	1.7	101	3.2	3 636	3.1
Rusk	359	1.9	14 381	1.9	41	5.7	3 284	10.6	19	8.4	393	15.4
St. Croix	540	1.8	28 651	1.5	81	3.4	12 111	2.4	49	4.6	1 144	7.2
Sauk	589	1.4	31 224	1.2	172	2.2	82 161	1.1	53	4.5	2 456	6.3
Sawyer	72	2.4	3 248	2.4	17	7.6	1 132	5.4	6	12.6	299	13.8
Shawano	868	1.4	43 483	1.3	90	3.4	3 939	5.5	25	6.7	645	9.1
Sheboygan	455	1.3	27 066	1.0	108	2.7	10 140	3.5	33	5.3	1 081	13.1
Taylor	557	1.7	22 971	1.6	47	4.6	1 216	8.2	26	5.9	896	9.1
Trempealeau	608	2.0	29 485	1.6	155	2.6	16 008	2.8	37	5.2	1 534	6.2
Vernon	985	1.7	37 520	1.7	171	2.7	10 583	4.6	48	4.9	1 307	12.2
Vilas	–	–	–	–	1	48.4	(D)	(D)	2	31.4	(D)	(D)
Walworth	221	1.8	13 881	1.3	114	2.9	25 347	1.9	51	4.5	1 430	6.8
Washburn	98	2.7	3 844	2.6	26	6.6	729	8.2	18	8.3	1 185	15.3
Washington	325	1.5	19 202	1.2	68	3.7	6 427	3.6	33	5.6	550	7.3
Waukesha	137	2.4	7 290	2.0	31	5.8	4 664	6.3	53	4.5	1 005	8.4
Waupaca	555	1.3	28 091	1.1	86	3.8	5 698	7.8	44	5.0	1 304	6.9
Waushara	183	2.2	7 815	1.9	84	3.5	7 711	4.0	19	7.2	685	10.1
Winnebago	334	1.9	17 478	1.6	61	3.5	4 664	5.1	34	5.2	800	11.1
Wood	521	1.9	23 241	1.7	50	4.5	8 482	2.4	23	7.6	947	11.3

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 17
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**2 830**	**1.2**	**3 485 859**	**.3**	**504**	**1.7**	**13 686 548**	**.2**
Adams	15	7.5	544	10.4	4	14.1	506	13.5
Ashland	18	8.3	926	10.5	–	–	–	–
Barron	50	4.6	1 895	5.6	11	9.7	967	12.2
Bayfield	19	8.8	(D)	(D)	2	30.8	(D)	(D)
Brown	39	4.7	926	7.5	2	19.7	(D)	(D)
Buffalo	38	4.5	114 317	.1	9	4.1	2 111 752	(L)
Burnett	34	5.2	1 238	7.4	1	30.6	(D)	(D)
Calumet	22	6.4	569	7.8	4	13.1	220	18.2
Chippewa	60	4.3	22 373	.7	4	19.8	1 527	26.9
Clark	115	3.2	3 744	4.1	15	8.3	2 309	14.0
Columbia	53	4.2	(D)	(D)	10	9.1	2 385	15.6
Crawford	44	5.1	978	7.0	6	15.6	1 180	23.4
Dane	79	3.6	63 914	7.0	21	6.2	2 423	9.7
Dodge	87	3.3	89 557	.4	13	8.3	1 618	14.1
Door	33	5.4	1 265	6.2	–	–	–	–
Douglas	16	8.2	(D)	(D)	5	15.3	123	19.4
Dunn	49	4.9	(D)	(D)	12	8.7	(D)	(D)
Eau Claire	67	4.3	2 669	5.5	10	7.1	(D)	(D)
Florence	5	16.7	51	17.5	–	–	–	–
Fond du Lac	29	5.6	(D)	(D)	9	9.6	2 530	26.5
Forest	9	10.8	214	13.5	–	–	–	–
Grant	84	3.8	33 722	.8	7	12.9	630	20.8
Green	33	6.6	807	11.4	5	16.2	324	18.1
Green Lake	19	7.3	1 035	9.0	6	13.4	1 675	19.8
Iowa	32	5.8	(D)	(D)	10	11.6	(D)	(D)
Iron	6	10.7	142	15.2	1	43.3	(D)	(D)
Jackson	21	6.8	1 059	17.3	2	25.1	(D)	(D)
Jefferson	78	3.6	1 191 103	.1	12	9.1	(D)	(D)
Juneau	23	7.6	7 829	1.2	2	30.6	(D)	(D)
Kenosha	37	4.7	2 375	8.5	7	11.1	1 364	11.4
Kewaunee	25	5.3	844	9.1	1	30.0	(D)	(D)
La Crosse	27	6.1	841	7.8	5	12.8	875	22.1
Lafayette	27	5.7	924	6.9	3	19.5	343	20.7
Langlade	17	8.1	(D)	(D)	3	16.1	(D)	(D)
Lincoln	26	6.3	1 939	12.3	3	21.1	(D)	(D)
Manitowoc	45	4.7	(D)	(D)	10	10.6	22 693	18.5
Marathon	98	3.6	4 532	9.1	22	8.0	2 972	11.2
Marinette	37	5.9	1 058	10.6	3	19.8	385	21.8
Marquette	18	7.4	8 308	2.6	3	18.0	288	22.2
Menominee	–	–	–	–	–	–	–	–
Milwaukee	4	15.9	58	22.1	–	–	–	–
Monroe	104	3.2	4 679	6.2	6	13.1	960	18.7
Oconto	45	5.0	5 520	31.1	4	18.5	(D)	(D)
Oneida	11	8.5	274	7.5	7	11.6	862	20.2
Outagamie	45	4.5	(D)	(D)	15	8.3	14 130	1.8
Ozaukee	21	6.3	(D)	(D)	3	20.4	(D)	(D)
Pepin	17	7.7	773	9.5	2	25.5	(D)	(D)
Pierce	33	7.0	1 108	14.0	13	9.8	1 430	18.9
Polk	67	4.7	3 496	9.0	3	19.4	233	20.3
Portage	63	3.9	9 194	1.3	12	9.7	2 942	14.5
Price	24	6.4	867	9.6	–	–	–	–
Racine	36	5.0	4 045	12.8	18	6.9	12 409	10.0
Richland	56	4.5	1 639	7.0	5	13.9	60	16.7
Rock	60	4.1	2 604	5.7	10	9.9	2 560	9.0
Rusk	25	7.5	822	11.4	2	19.0	(D)	(D)
St. Croix	45	4.8	12 512	1.7	11	8.0	(D)	(D)
Sauk	70	3.8	(D)	(D)	14	9.7	859	11.7
Sawyer	13	9.3	299	13.7	1	38.3	(D)	(D)
Shawano	54	4.6	3 517	14.2	6	15.0	(D)	(D)
Sheboygan	39	4.7	10 472	25.5	12	8.9	704	11.8
Taylor	51	4.8	1 966	5.5	4	14.2	(D)	(D)
Trempealeau	31	5.2	74 474	5.1	34	2.6	10 667 093	.2
Vernon	101	3.2	3 828	6.3	13	8.5	8 186	18.4
Vilas	–	–	–	–	–	–	–	–
Walworth	41	5.2	(D)	(D)	7	11.9	652	11.9
Washburn	20	7.9	(D)	(D)	6	15.0	(D)	(D)
Washington	35	5.3	362 948	(L)	13	9.1	7 420	18.3
Waukesha	39	5.2	1 544	15.1	8	11.7	2 101	17.6
Waupaca	48	4.8	1 756	8.5	12	9.4	833	13.4
Waushara	35	5.2	1 552	7.2	9	11.7	7 905	31.3
Winnebago	34	5.1	(D)	(D)	5	15.6	635	22.4
Wood	29	5.9	868	7.1	6	15.0	1 285	27.9

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 18
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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)
Wisconsin	**36 674**	**1.1**	**2 830 496**	**.8**	**283 709 848**	**.8**	**28 701**	**1.2**	**937 346**	**1.0**	**10 189 877**	**1.0**
Adams	187	1.6	16 977	2.1	1 598 257	2.2	74	2.9	3 112	3.6	28 692	3.8
Ashland	5	12.8	191	9.4	9 466	9.2	20	7.1	409	10.4	3 213	12.5
Barron	767	2.0	48 289	1.8	3 656 717	1.8	763	2.0	23 676	1.9	232 098	1.9
Bayfield	7	11.5	435	7.3	45 040	6.1	32	6.3	1 149	5.9	7 316	8.9
Brown	514	1.4	37 207	1.1	3 509 223	1.2	593	1.4	25 040	1.3	297 480	1.5
Buffalo	715	1.3	48 229	1.5	4 945 011	1.4	443	1.6	13 109	1.7	170 979	1.7
Burnett	154	2.4	10 260	2.9	729 589	3.2	117	2.8	3 262	3.4	30 184	3.2
Calumet	479	1.3	31 170	1.2	2 983 251	1.2	461	1.4	16 709	1.3	193 095	1.3
Chippewa	742	1.7	41 743	1.4	3 622 466	1.5	912	1.9	31 366	1.8	277 711	1.8
Clark	981	2.2	44 802	2.0	3 509 704	2.0	1 250	2.0	41 220	1.7	385 213	1.8
Columbia	994	1.2	109 330	1.2	12 102 417	1.1	443	1.5	14 443	1.4	168 332	1.7
Crawford	567	1.7	25 894	1.8	2 801 978	1.9	336	2.2	6 209	2.8	82 604	2.7
Dane	1 591	.9	187 388	.7	19 654 306	.7	883	1.1	29 496	1.0	378 180	1.0
Dodge	1 409	1.1	120 012	1.1	11 813 196	1.1	998	1.3	38 958	1.0	428 533	1.1
Door	220	1.9	11 769	2.2	979 751	2.4	300	1.7	9 917	1.9	98 951	2.1
Douglas	–	–	–	–	–	–	10	9.3	205	6.0	1 334	8.6
Dunn	855	1.1	62 644	.9	5 982 155	1.0	607	1.3	18 018	1.3	190 291	1.6
Eau Claire	521	1.6	28 038	1.4	2 310 499	1.4	362	1.8	10 143	1.8	91 899	1.8
Florence	2	30.0	(D)	(D)	(D)	(D)	26	5.5	837	9.2	9 167	11.8
Fond du Lac	1 012	1.1	78 757	.9	7 588 920	.9	844	1.1	36 656	1.1	381 682	1.2
Forest	1	24.9	(D)	(D)	(D)	(D)	15	5.5	426	5.2	2 303	7.0
Grant	1 692	1.3	136 806	1.1	16 898 272	1.0	831	1.5	17 056	1.4	234 482	1.7
Green	925	1.4	75 209	1.1	7 836 045	1.1	606	1.7	15 097	1.7	169 073	2.0
Green Lake	474	1.2	48 637	1.1	4 613 694	1.2	302	1.6	9 829	1.7	105 754	2.2
Iowa	798	1.5	58 119	1.2	6 178 519	1.3	565	1.5	14 445	1.4	172 922	1.4
Iron	3	18.6	(D)	(D)	(D)	(D)	3	8.6	(D)	(D)	(D)	(D)
Jackson	456	1.8	29 906	1.6	2 834 896	1.5	320	2.3	8 424	2.1	98 974	2.0
Jefferson	866	.9	70 107	1.1	7 280 581	1.0	381	1.5	10 134	1.5	117 848	1.6
Juneau	436	1.7	37 899	1.9	3 781 968	2.0	257	2.3	7 151	2.6	91 461	2.3
Kenosha	207	1.3	31 247	1.1	3 311 659	1.1	98	2.3	3 430	2.2	36 953	2.2
Kewaunee	394	1.6	21 139	1.4	1 849 523	1.5	537	1.5	20 147	1.5	217 425	1.5
La Crosse	551	1.2	28 512	1.3	3 520 381	1.4	322	1.6	6 754	2.5	102 463	2.2
Lafayette	899	1.3	107 606	1.0	11 910 144	.9	561	1.5	16 048	1.4	171 778	1.4
Langlade	56	3.9	2 942	3.0	230 186	3.5	151	2.1	6 359	2.9	49 427	3.6
Lincoln	26	5.4	847	5.4	55 229	4.5	135	2.8	3 938	2.9	26 918	3.0
Manitowoc	620	1.0	42 085	.8	3 759 987	.8	689	1.0	27 212	.9	348 373	.9
Marathon	781	1.3	40 763	1.0	3 189 446	1.0	1 311	1.2	47 597	1.2	419 107	1.2
Marinette	266	1.8	14 874	1.8	1 098 603	1.9	278	1.7	12 407	1.9	118 705	2.1
Marquette	270	1.7	24 735	1.6	1 976 144	1.3	143	2.3	7 847	1.9	68 719	2.0
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	14	6.2	1 725	4.5	139 912	5.7	4	16.8	89	22.5	900	25.7
Monroe	959	1.5	39 486	1.6	4 259 130	1.6	768	1.7	17 965	1.8	222 124	1.7
Oconto	510	1.3	29 475	1.4	2 470 070	1.5	522	1.3	19 955	1.5	190 311	1.7
Oneida	1	–	(D)	(D)	(D)	(D)	5	14.4	66	12.3	480	14.2
Outagamie	854	1.0	68 379	1.0	6 775 293	1.0	715	1.2	29 279	1.1	373 183	1.1
Ozaukee	205	1.8	16 044	1.5	1 463 729	1.6	137	2.1	5 249	2.0	60 176	1.6
Pepin	314	1.9	21 012	2.0	2 053 937	2.0	167	2.3	3 839	2.7	42 713	2.7
Pierce	795	1.5	63 357	1.3	6 302 967	1.3	454	1.9	11 866	1.9	153 241	1.8
Polk	669	1.5	38 863	1.6	3 100 183	1.6	533	1.6	15 679	1.7	158 334	2.0
Portage	496	1.4	31 864	1.1	3 079 675	1.1	371	1.7	10 793	1.7	118 718	1.8
Price	13	8.1	430	4.2	30 778	4.4	59	3.3	1 188	3.7	8 868	3.7
Racine	291	1.5	46 354	1.0	4 995 942	.9	117	2.3	3 748	2.1	48 088	2.3
Richland	636	1.6	30 076	1.5	3 349 277	1.4	372	2.1	7 783	1.9	98 750	2.0
Rock	912	1.1	144 956	.8	16 030 352	.8	318	1.5	10 941	1.6	156 032	1.9
Rusk	82	3.9	3 381	5.1	208 446	5.7	298	2.1	12 790	2.5	93 566	2.9
St. Croix	744	1.4	65 069	1.2	5 875 871	1.2	510	1.6	18 633	1.6	211 062	1.7
Sauk	926	1.1	65 728	1.2	6 964 974	1.2	618	1.4	19 835	1.3	224 296	1.2
Sawyer	15	5.9	991	5.8	61 350	6.4	41	3.8	2 711	3.1	17 128	3.7
Shawano	669	1.3	32 448	1.4	2 969 781	1.5	924	1.3	36 200	1.3	361 388	1.3
Sheboygan	563	1.1	39 687	1.0	3 601 020	1.1	454	1.3	17 724	1.2	204 448	1.2
Taylor	120	2.9	6 149	2.8	438 623	3.1	425	1.8	17 114	1.8	123 527	2.5
Trempealeau	902	1.7	60 089	1.4	5 861 615	1.3	592	2.0	15 859	1.7	181 922	1.7
Vernon	1 148	1.5	37 372	1.6	4 127 254	1.6	878	1.6	15 690	1.7	217 557	1.7
Vilas	–	–	–	–	–	–	1	48.4	(D)	(D)	(D)	(D)
Walworth	542	1.2	94 445	1.0	10 669 415	.9	222	1.8	7 428	1.6	96 840	1.8
Washburn	88	2.8	4 223	3.6	261 368	4.3	101	2.6	4 576	3.1	37 632	3.1
Washington	494	1.2	34 438	1.0	2 980 601	1.1	361	1.3	13 276	1.2	137 234	1.3
Waukesha	310	1.5	38 322	1.7	3 625 077	1.7	147	2.2	4 273	2.0	56 285	2.2
Waupaca	668	1.2	46 880	1.4	4 732 601	1.3	605	1.3	22 511	1.2	253 153	1.5
Waushara	340	1.5	28 191	1.4	2 765 093	1.3	207	2.1	6 680	2.0	59 162	1.9
Winnebago	509	1.3	43 459	1.2	4 469 415	1.2	311	1.9	10 826	1.7	125 703	1.6
Wood	442	1.9	22 933	1.8	1 872 570	1.9	485	1.8	14 483	1.9	146 777	1.8

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 19
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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

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

Geographic area	Selected crops harvested —Con.											
	Oats for grain						Soybeans for beans					
	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)
Wisconsin	**22 195**	**1.1**	**488 332**	**1.0**	**27 900 172**	**1.0**	**8 957**	**1.0**	**575 087**	**.7**	**17 659 688**	**.7**
Adams	51	3.7	862	4.8	31 226	5.3	94	2.4	6 698	3.0	164 262	3.3
Ashland	45	4.6	1 017	8.3	43 709	7.3	–	–	–	–	–	–
Barron	432	2.0	8 475	2.1	491 650	2.1	103	2.8	4 401	3.0	74 728	3.0
Bayfield	62	4.3	1 683	3.5	97 259	3.3	–	–	–	–	–	–
Brown	490	1.5	14 462	1.6	995 746	1.5	75	2.9	5 191	2.9	141 735	2.8
Buffalo	303	1.7	5 427	1.7	273 689	1.9	128	2.4	6 962	2.2	161 210	2.0
Burnett	51	4.0	1 143	6.5	43 534	5.6	56	3.9	2 132	4.8	36 989	5.0
Calumet	365	1.3	8 839	1.5	629 656	1.5	173	1.6	8 469	1.3	243 370	1.3
Chippewa	616	2.0	14 129	1.9	743 570	2.0	137	2.5	9 755	2.2	208 637	2.6
Clark	817	2.0	17 434	2.0	906 953	2.0	157	2.9	4 844	3.7	101 158	3.4
Columbia	430	1.7	8 059	2.0	418 250	1.9	386	1.7	21 388	1.4	685 236	1.5
Crawford	316	1.9	5 456	2.4	272 351	2.2	22	6.1	1 302	7.9	42 198	8.5
Dane	555	1.3	10 590	1.4	530 553	1.5	478	1.3	25 677	1.1	910 299	1.1
Dodge	782	1.3	16 076	1.3	944 977	1.4	405	1.7	21 586	1.4	652 586	1.5
Door	368	1.4	11 489	1.8	713 061	2.0	27	5.7	1 213	5.6	27 325	6.2
Douglas	23	6.4	591	6.1	31 595	5.7	–	–	–	–	–	–
Dunn	452	1.5	10 241	1.9	530 929	1.9	259	1.8	14 632	1.8	289 290	1.9
Eau Claire	361	1.8	8 264	1.8	439 030	1.9	98	2.9	5 562	2.9	106 286	3.0
Florence	9	9.6	101	6.6	4 600	4.6	–	–	–	–	–	–
Fond du Lac	652	1.2	15 330	1.3	873 746	1.4	354	1.6	21 013	1.5	586 763	1.4
Forest	28	4.4	467	4.4	21 000	5.4	–	–	–	–	–	–
Grant	1 125	1.3	24 804	1.1	1 368 050	1.2	145	2.2	7 245	2.0	274 190	2.1
Green	409	2.0	8 565	2.3	389 089	2.4	192	2.5	11 401	2.3	397 460	2.0
Green Lake	251	1.7	6 366	1.9	392 095	1.8	127	2.6	8 060	2.2	261 063	2.4
Iowa	405	1.8	8 051	1.8	397 552	1.7	92	2.7	4 890	2.5	198 492	2.2
Iron	11	6.7	159	8.0	6 105	8.4	–	–	–	–	–	–
Jackson	244	1.9	5 470	1.9	278 975	2.1	135	2.6	5 902	2.8	146 564	2.6
Jefferson	359	1.5	5 424	1.8	292 587	1.7	405	1.4	22 999	1.4	771 273	1.4
Juneau	215	2.5	3 836	2.8	219 056	3.1	132	3.1	11 166	2.6	280 203	2.5
Kenosha	69	2.9	1 359	3.2	77 367	3.3	146	1.9	20 352	1.5	721 954	1.6
Kewaunee	476	1.4	13 654	1.5	979 364	1.6	50	3.1	2 130	3.4	46 882	3.0
La Crosse	178	2.1	2 621	2.3	161 218	2.4	99	2.9	4 267	3.6	132 078	3.5
Lafayette	474	1.6	9 691	1.4	476 585	1.5	177	2.1	14 484	1.4	588 356	1.3
Langlade	189	1.8	12 018	1.2	787 260	1.1	2	–	(D)	(D)	(D)	(D)
Lincoln	132	2.8	2 541	3.2	137 303	3.3	6	12.0	88	7.2	1 265	12.0
Manitowoc	635	1.0	17 247	1.1	1 162 834	1.2	133	2.0	4 976	1.9	126 959	2.3
Marathon	1 026	1.2	22 534	1.2	1 326 838	1.2	122	2.3	4 268	2.2	86 736	2.1
Marinette	179	2.4	3 879	3.0	188 435	3.0	9	10.5	335	9.8	7 140	10.6
Marquette	88	3.1	1 918	3.5	62 995	4.5	60	3.5	4 052	2.1	84 003	2.0
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	3	13.0	(D)	(D)	(D)	(D)	27	4.7	2 677	3.7	79 346	3.3
Monroe	502	1.6	8 173	2.0	460 186	2.2	83	3.1	3 256	3.5	88 494	3.9
Oconto	312	1.8	6 226	1.9	353 570	2.2	45	4.2	1 725	5.6	33 384	3.8
Oneida	17	6.5	1 206	1.7	69 400	1.2	–	–	–	–	–	–
Outagamie	443	1.4	11 038	1.6	706 543	1.5	237	1.8	13 307	1.8	393 749	2.0
Ozaukee	149	2.0	4 493	2.1	302 435	2.3	82	2.4	5 152	2.4	153 614	2.2
Pepin	160	2.5	3 490	3.0	165 309	3.1	114	2.9	7 655	3.8	147 609	3.5
Pierce	490	1.9	12 685	2.1	685 506	2.0	181	2.8	10 609	2.8	268 597	2.8
Polk	359	2.0	6 647	2.4	353 826	2.6	139	3.1	6 869	3.2	137 321	3.1
Portage	282	1.9	5 904	1.8	298 178	1.8	23	5.2	780	3.4	14 885	3.8
Price	99	2.5	1 469	3.2	75 338	3.5	–	–	–	–	–	–
Racine	111	2.5	2 133	2.5	121 862	2.7	246	1.5	33 886	1.1	1 135 969	1.1
Richland	188	2.2	3 002	2.6	138 094	2.7	65	3.4	3 427	2.5	125 390	2.4
Rock	245	1.9	4 365	1.9	218 637	1.9	570	1.4	56 457	1.0	2 169 669	1.0
Rusk	180	2.9	3 500	3.7	181 371	4.0	9	10.9	268	9.5	4 145	11.5
St. Croix	509	1.6	12 993	1.6	726 893	1.7	193	2.1	14 985	2.1	360 568	1.9
Sauk	437	1.4	8 151	1.8	401 318	1.9	235	1.9	10 916	2.3	342 738	2.2
Sawyer	37	4.2	911	3.6	55 516	3.4	4	9.6	(D)	(D)	(D)	(D)
Shawano	577	1.4	12 753	1.6	810 899	1.6	99	2.6	4 247	3.7	111 990	3.9
Sheboygan	445	1.3	11 912	1.7	858 261	1.9	180	1.7	8 115	1.4	211 952	1.5
Taylor	317	2.0	6 704	2.2	365 204	2.2	13	5.5	414	6.0	7 149	7.9
Trempealeau	423	1.7	7 467	1.5	364 354	1.6	235	2.2	13 371	1.6	379 194	1.5
Vernon	486	1.7	6 691	1.8	373 308	1.9	54	4.0	1 945	4.0	65 618	4.2
Vilas	3	22.5	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Walworth	172	2.0	3 237	1.8	176 535	1.9	327	1.4	37 239	.9	1 455 855	.9
Washburn	49	4.1	981	4.7	48 186	5.0	5	10.0	93	8.7	1 400	4.2
Washington	375	1.4	8 082	1.6	482 730	1.7	121	2.5	6 474	2.2	173 204	2.0
Waukesha	152	2.3	2 620	2.5	127 473	2.8	134	2.5	11 464	2.6	354 102	2.8
Waupaca	329	1.9	6 164	1.9	369 004	2.1	113	2.9	5 364	3.5	133 912	3.2
Waushara	125	2.8	2 278	3.3	113 689	3.7	81	3.0	4 757	2.6	118 643	2.6
Winnebago	237	1.8	5 674	1.7	362 389	1.8	299	1.6	18 698	1.7	550 230	1.7
Wood	309	2.2	6 728	2.2	372 246	2.2	59	3.5	3 076	4.5	74 106	3.7

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 20
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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.											
	Irish potatoes						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)	Hundredweight	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)
Wisconsin	**447**	**1.3**	**78 231**	**.2**	**26 639 799**	**.1**	**51 238**	**1.0**	**3 911 258**	**1.0**	**8 621 168**	**1.0**
Adams	27	1.0	15 701	(L)	5 599 078	(L)	193	1.5	9 850	2.2	14 829	2.3
Ashland	–	–	–	–	–	–	166	1.7	17 541	2.3	29 060	3.0
Barron	5	10.6	1 906	(L)	864 055	(L)	1 226	1.6	104 000	1.7	225 560	1.7
Bayfield	–	–	–	–	–	–	285	1.5	34 261	2.1	59 540	2.4
Brown	2	19.7	(D)	(D)	(D)	(D)	855	1.2	77 448	1.2	144 446	1.3
Buffalo	1	26.0	(D)	(D)	(D)	(D)	793	1.2	68 731	1.2	161 167	1.3
Burnett	–	–	–	–	–	–	272	1.6	19 405	2.5	43 414	2.7
Calumet	–	–	–	–	–	–	639	1.1	57 344	1.3	116 748	1.3
Chippewa	1	–	(D)	(D)	(D)	(D)	1 297	1.7	113 992	1.6	231 011	1.6
Clark	1	–	(D)	(D)	(D)	(D)	1 760	1.8	135 662	1.7	263 226	1.8
Columbia	8	10.4	32	5.8	3 615	9.2	984	1.2	51 718	1.2	120 262	1.4
Crawford	5	15.6	(D)	(D)	(D)	(D)	763	1.5	57 389	1.7	147 647	1.8
Dane	2	20.2	(D)	(D)	(D)	(D)	1 703	.9	123 147	.9	333 174	.9
Dodge	2	21.7	(D)	(D)	(D)	(D)	1 449	1.1	96 490	1.1	239 282	1.1
Door	7	9.5	35	1.5	(D)	(D)	522	1.2	43 064	1.7	76 264	1.8
Douglas	–	–	–	–	–	–	222	1.4	23 765	2.3	37 258	3.1
Dunn	5	12.7	(D)	(D)	(D)	(D)	1 076	1.0	91 431	1.2	210 990	1.3
Eau Claire	6	10.3	6	18.1	900	14.2	683	1.4	53 809	1.5	107 593	1.6
Florence	2	–	(D)	(D)	(D)	(D)	65	2.1	5 476	3.8	8 201	6.4
Fond du Lac	–	–	–	–	–	–	1 099	1.0	88 704	1.0	173 753	1.1
Forest	3	12.7	(D)	(D)	(D)	(D)	90	1.6	6 594	2.5	9 115	2.8
Grant	–	–	–	–	–	–	1 903	1.3	142 936	1.3	432 846	1.3
Green	–	–	–	–	–	–	1 073	1.3	101 902	1.4	265 125	1.5
Green Lake	6	12.6	22	22.3	2 250	21.6	517	1.1	30 051	1.5	69 392	1.6
Iowa	3	11.7	(D)	(D)	(D)	(D)	1 002	1.4	83 400	1.5	230 833	1.4
Iron	3	11.7	(D)	(D)	(D)	(D)	44	2.3	2 717	3.7	4 038	3.4
Jackson	1	42.7	(D)	(D)	(D)	(D)	542	1.6	45 937	1.8	92 757	1.9
Jefferson	8	5.1	1 033	.6	332 506	.4	866	.9	43 344	1.2	128 909	1.3
Juneau	8	9.8	5 223	.8	1 952 673	.5	504	1.5	33 235	2.0	62 383	2.1
Kenosha	3	19.3	(D)	(D)	316	23.9	235	1.4	11 878	1.8	30 998	2.2
Kewaunee	2	17.1	(D)	(D)	(D)	(D)	754	1.2	65 212	1.4	117 775	1.5
La Crosse	4	14.1	1	16.1	96	15.0	641	1.1	41 256	1.3	106 427	1.5
Lafayette	3	20.6	(D)	(D)	595	23.2	971	1.3	86 309	1.2	237 518	1.2
Langlade	60	2.8	11 808	1.1	3 489 313	.7	287	1.5	27 187	1.8	46 853	2.0
Lincoln	–	–	–	–	–	–	330	1.7	25 579	2.2	40 124	2.4
Manitowoc	8	10.7	27	14.8	4 110	15.0	1 042	.8	91 140	.8	190 313	.8
Marathon	9	5.0	1 516	2.7	458 275	1.1	2 042	1.0	170 221	1.0	330 238	1.0
Marinette	12	9.8	(D)	(D)	(D)	(D)	499	1.1	40 317	1.5	68 649	1.8
Marquette	6	12.5	463	4.0	84 642	7.8	318	1.5	24 116	1.6	36 840	1.9
Menominee	–	–	–	–	–	–	–	–	–	–	–	–
Milwaukee	1	41.6	(D)	(D)	(D)	(D)	32	4.2	1 374	5.5	3 777	4.8
Monroe	2	22.4	(D)	(D)	(D)	(D)	1 288	1.3	86 808	1.5	189 689	1.5
Oconto	4	19.6	(D)	(D)	(D)	(D)	764	1.0	59 971	1.2	107 501	1.3
Oneida	7	–	1 821	–	347 550	–	49	3.6	2 837	8.8	3 116	6.5
Outagamie	2	27.7	(D)	(D)	(D)	(D)	962	1.0	67 619	1.0	139 197	1.0
Ozaukee	10	6.6	78	3.1	15 700	2.4	282	1.6	20 518	1.7	43 119	1.9
Pepin	1	38.6	(D)	(D)	(D)	(D)	338	1.8	28 099	2.0	65 110	2.2
Pierce	2	32.0	(D)	(D)	(D)	(D)	922	1.4	65 666	1.5	180 806	1.7
Polk	3	23.8	1	31.0	(D)	(D)	1 051	1.2	77 396	1.5	172 193	1.5
Portage	76	2.3	21 573	.4	7 412 992	.3	752	1.2	60 824	1.3	125 989	1.6
Price	1	30.9	(D)	(D)	(D)	(D)	346	1.0	24 984	1.8	36 741	1.7
Racine	9	8.6	63	2.6	(D)	(D)	297	1.4	12 907	1.8	31 946	1.7
Richland	–	–	–	–	–	–	884	1.5	68 549	1.8	150 134	1.8
Rock	9	10.5	14	11.1	2 890	11.0	839	1.0	44 427	1.1	130 753	1.1
Rusk	1	37.9	(D)	(D)	(D)	(D)	547	1.4	45 694	1.8	80 949	1.9
St. Croix	2	24.5	(D)	(D)	(D)	(D)	1 016	1.2	74 445	1.4	183 323	1.5
Sauk	4	17.0	1	19.8	62	17.4	1 112	1.0	82 122	1.1	180 550	1.3
Sawyer	1	–	(D)	(D)	(D)	(D)	138	1.6	13 081	2.0	26 495	1.5
Shawano	2	16.1	(D)	(D)	(D)	(D)	1 237	1.1	97 136	1.2	181 671	1.3
Sheboygan	3	19.5	8	20.0	(D)	(D)	752	1.0	63 053	1.1	125 474	1.2
Taylor	2	24.3	(D)	(D)	(D)	(D)	788	1.5	70 655	1.6	118 851	1.7
Trempealeau	–	–	–	–	–	–	1 052	1.6	81 604	1.6	177 854	1.6
Vernon	12	8.9	18	26.1	3 639	23.1	1 582	1.2	108 638	1.5	263 579	1.7
Vilas	1	–	(D)	(D)	(D)	(D)	14	7.9	690	9.5	1 098	12.4
Walworth	6	9.5	(D)	(D)	(D)	(D)	467	1.3	26 965	1.2	80 195	1.4
Washburn	4	12.6	(D)	(D)	(D)	(D)	240	1.6	18 896	1.9	36 401	2.4
Washington	11	9.2	79	14.7	14 072	15.7	637	1.0	43 598	1.1	110 784	1.2
Waukesha	4	14.9	(D)	(D)	(D)	(D)	410	1.3	20 488	1.8	53 443	1.9
Waupaca	16	6.6	1 007	1.0	166 290	1.9	914	1.0	65 392	1.1	120 141	1.3
Waushara	35	2.3	10 762	.3	4 235 780	.3	404	1.4	25 395	1.7	43 965	1.9
Winnebago	1	36.7	(D)	(D)	(D)	(D)	581	1.2	40 374	1.3	77 757	1.5
Wood	2	19.8	(D)	(D)	(D)	(D)	829	1.5	64 495	1.6	134 009	1.7

See footnotes at end of table.

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 21
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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.			
	Vegetables harvested for sale (see text)			
	Farms		Acres	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Wisconsin	**4 269**	**.9**	**347 581**	**.6**
Adams	38	3.0	18 953	.6
Ashland	–	–	–	–
Barron	84	3.0	7 489	1.8
Bayfield	9	13.7	35	19.2
Brown	65	3.7	3 311	4.5
Buffalo	14	8.3	80	18.6
Burnett	10	9.3	672	6.8
Calumet	73	2.6	5 084	2.6
Chippewa	13	7.5	629	5.2
Clark	8	10.2	23	18.1
Columbia	264	2.0	16 753	1.8
Crawford	15	9.0	68	10.8
Dane	254	1.5	16 934	1.0
Dodge	360	1.5	29 856	1.2
Door	69	3.3	3 304	4.1
Douglas	2	19.0	(D)	(D)
Dunn	24	5.3	1 918	3.1
Eau Claire	15	7.3	1 051	.9
Florence	1	45.6	(D)	(D)
Fond du Lac	391	1.4	31 199	1.5
Forest	1	24.9	(D)	(D)
Grant	17	6.7	326	11.4
Green	25	6.2	2 534	4.6
Green Lake	122	2.6	9 190	2.8
Iowa	28	5.1	2 480	2.7
Iron	2	25.2	(D)	(D)
Jackson	21	4.9	845	2.1
Jefferson	109	2.7	7 493	2.3
Juneau	21	7.8	7 207	1.0
Kenosha	36	5.0	3 116	1.2
Kewaunee	48	3.5	2 595	3.2
La Crosse	26	5.7	450	5.1
Lafayette	5	12.4	28	23.5
Langlade	36	3.7	3 477	1.6
Lincoln	4	15.2	21	22.9
Manitowoc	167	1.9	6 804	1.7
Marathon	34	5.1	1 693	5.7
Marinette	43	4.8	2 672	3.8
Marquette	20	5.7	1 480	3.3
Menominee	–	–	–	–
Milwaukee	14	7.2	255	4.1
Monroe	8	12.3	161	17.3
Oconto	71	4.0	7 734	3.0
Oneida	4	–	780	–
Outagamie	161	2.3	11 322	2.4
Ozaukee	108	2.0	6 197	2.2
Pepin	8	11.4	88	18.1
Pierce	13	11.5	28	25.6
Polk	40	5.5	1 679	7.8
Portage	97	2.1	31 224	.7
Price	–	–	–	–
Racine	73	3.1	7 700	.9
Richland	28	5.5	1 267	4.6
Rock	125	2.4	10 772	1.6
Rusk	7	11.0	411	7.3
St. Croix	53	3.9	3 069	6.9
Sauk	43	4.4	1 807	3.7
Sawyer	4	14.5	(D)	(D)
Shawano	43	4.4	3 085	3.9
Sheboygan	267	1.7	16 844	2.1
Taylor	2	19.7	(D)	(D)
Trempealeau	34	4.3	1 265	4.4
Vernon	9	12.6	42	20.5
Vilas	–	–	–	–
Walworth	123	2.4	9 815	2.5
Washburn	19	6.4	1 471	3.2
Washington	113	2.5	5 889	2.4
Waukesha	75	3.5	3 850	2.8
Waupaca	50	4.5	2 463	3.3
Waushara	82	2.7	21 260	1.0
Winnebago	109	2.6	7 128	3.0
Wood	12	7.9	131	16.7

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

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TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49

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	67 959	1.0	7 838	19.3	10.3	1.8
Land in farms ---- acres	15 463 551	.9	561 555	19.4	3.5	.7
Average size of farm ---- acres	227.5	.2	71.6	14.7	(X)	(X)
Farms by size:						
Less than 10 acres	3 605	1.2	799	52.5	18.1	7.8
10 to 49 acres	8 655	1.1	4 104	27.7	32.2	6.0
Less than 50 acres	12 260	1.1	4 903	25.5	28.6	5.2
50 acres or more	55 699	1.1	2 934	24.1	5.0	1.2
50 to 99 acres	9 492	1.0	1 192	35.0	11.2	3.4
100 to 179 acres	14 629	1.1	1 030	48.7	6.6	3.0
180 acres or more	31 578	1.1	713	38.2	2.2	.8
Harvested cropland ---- farms	61 125	1.0	6 140	21.1	9.1	1.7
acres	8 843 649	.9	209 289	22.0	2.3	.5
Farms by value of sales:						
Less than $1,000	5 209	1.3	4 856	26.3	48.2	6.5
$1,000 to $2,499	4 723	1.2	651	62.8	12.1	6.7
Less than $2,500	9 932	1.2	5 507	25.3	35.7	5.8
$2,500 or more	58 027	1.1	2 331	24.5	3.9	.9
$2,500 to $9,999	11 931	1.0	1 165	33.8	8.9	2.7
$10,000 or more	46 096	1.2	1 166	29.7	2.5	.7
Market value of agricultural products sold ---- $1,000	5 259 670	.8	73 500	36.9	1.4	.5
Farms by standard industrial classification:						
Crops (01)	20 724	1.0	3 693	27.3	15.1	3.5
Livestock (02)	47 235	1.1	3 947	23.4	7.7	1.7
Farms by type of organization:						
Individual or family	58 298	1.0	7 299	19.8	11.1	2.0
Partnership or corporation	9 432	1.0	518	70.1	5.2	3.4
Other	229	2.2	–	(X)	–	(X)
Farms by tenure of operator:						
Full owners	38 773	.9	6 983	21.2	15.3	2.7
Part owners and tenants	29 186	1.2	834	36.5	2.8	1.0
Part owners	23 362	1.0	456	44.7	1.9	.8
Tenants	5 824	2.0	378	61.2	6.1	3.6
Operators by place of residence:						
On farm operated	56 526	1.0	6 830	21.0	10.8	2.0
Not on farm operated	8 207	1.3	437	48.6	5.1	2.3
Not reported	3 226	1.1	570	49.5	15.0	6.3
Operators by principal occupation:						
Farming	46 180	1.1	1 782	33.7	3.7	1.2
Other	21 779	1.0	5 209	24.3	19.3	3.8
Operators by sex:						
Male	64 136	1.0	7 140	19.8	10.0	1.8
Female	3 823	1.2	697	62.5	15.4	8.2
Operators by race:						
White	67 848	1.0	6 991	20.5	9.3	1.7
Black and other races	111	3.1	–	(X)	–	(X)
Operators by years on present farm:						
4 years or less	7 906	2.1	2 307	31.8	22.6	5.6
5 years or more	51 412	.9	4 204	25.7	7.6	1.8
Average years on present farm	20.3	1.3	9.6	26.4	(X)	(X)
Not reported	8 641	1.0	1 326	33.7	13.3	3.9
Average age of operator	50.6	.1	45.2	17.2	(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.

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

TIPS [UPF] BATCH_438 [ACEN,C_ARLEDGE] 1/27/94 10:42 AM MACHINE: EPCV22 DATA:VOL1_TIPS_APX_35.TIPS;1 * 1/24/94 08:00:00 TAPE: NOreel FRAME: 23
TSF:TIPS92-08003651.DAT;1 1/24/94 08:00:44 UTF:TIPS93-08003651.DAT;1 1/24/94 08:00:44 META:VOL1_TIPS96_APX_35.DAT;3 1/24/94 08:01:49