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	11.3
Land in farms ---- acres	7.7
Estimated market value of land and buildings[1] ---- $1,000	3.5
Market value of agricultural products sold ---- $1,000	2.6
Harvested cropland ---- acres	6.1
Corn for grain or seed ---- acres	4.7
Wheat for grain ---- acres	5.2
Livestock and poultry inventory:	
Cattle and calves ---- number	5.5
Hogs and pigs ---- number	2.6
Hens and pullets of laying age ---- number	.2

[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	5.5
50	3.8
75	3.1
100	2.6
150	2.1
200	1.8
300	1.3
500	.9
750	.5
1,000	.1
1,500	.1
2,000	.1
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	25.3
50	19.8
75	17.6
100	16.4
150	15.1
200	14.4
300	13.7
500	13.0
750	12.7
1,000	12.6
1,500	12.4
2,000	12.3

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	44 870	1.1
Land in farms ---- acres	7 189 541	.8
Average size of farm ---- acres	160	1.3
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) ---- farms	44 870	1.1
$1,000	3 570 191	.3
Average per farm ---- dollars	79 567	1.1
Farms by value of sales:		
Less than $1,000 (see text) ---- farms	4 879	1.3
$1,000	1 304	1.4
$1,000 to $2,499 ---- farms	4 755	1.3
$1,000	8 080	1.3
$2,500 to $4,999 ---- farms	5 314	1.3
$1,000	19 316	1.3
$5,000 to $9,999 ---- farms	5 555	1.4
$1,000	39 702	1.4
$10,000 to $19,999 ---- farms	4 771	1.7
$1,000	67 802	1.7
$20,000 to $24,999 ---- farms	1 428	1.9
$1,000	31 851	1.9
$25,000 to $39,999 ---- farms	2 687	2.0
$1,000	85 273	2.0
$40,000 to $49,999 ---- farms	1 228	1.9
$1,000	54 600	1.9
$50,000 to $99,999 ---- farms	5 241	1.6
$1,000	390 851	1.6
$100,000 to $249,999 ---- farms	6 291	–
$1,000	958 715	–
$250,000 to $499,999 ---- farms	1 707	–
$1,000	580 627	–
$500,000 or more ---- farms	1 014	–
$1,000	1 332 071	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops ---- farms	27 506	1.0
$1,000	1 042 050	.3
Grains ---- farms	16 684	1.0
$1,000	231 170	.5
Corn for grain ---- farms	11 418	1.1
$1,000	144 006	.5
Wheat ---- farms	7 137	1.0
$1,000	25 748	.6
Soybeans ---- farms	5 135	.9
$1,000	48 580	.5
Sorghum for grain ---- farms	81	2.9
$1,000	385	4.4
Barley ---- farms	2 040	1.1
$1,000	4 766	.7
Oats ---- farms	3 645	1.2
$1,000	5 555	.9
Other grains ---- farms	1 192	1.1
$1,000	2 131	.9
Cotton and cottonseed ---- farms	–	–
$1,000	–	–
Tobacco ---- farms	1 345	1.6
$1,000	19 865	1.4
Hay, silage, and field seeds ---- farms	13 065	1.2
$1,000	87 005	1.1
Vegetables, sweet corn, and melons ---- farms	3 372	1.2
$1,000	59 167	.6
Fruits, nuts, and berries ---- farms	2 252	1.2
$1,000	88 634	.4
Nursery and greenhouse crops ---- farms	2 260	.9
$1,000	532 465	.1
Other crops ---- farms	862	1.2
$1,000	23 743	.4
Livestock, poultry, and their products ---- farms	31 097	1.1
$1,000	2 528 141	.3
Poultry and poultry products ---- farms	3 197	.9
$1,000	599 618	(L)
Dairy products ---- farms	11 593	.9
$1,000	1 237 131	.4
Cattle and calves ---- farms	26 008	1.1
$1,000	426 157	.5
Hogs and pigs ---- farms	4 577	1.1
$1,000	192 596	.3
Sheep, lambs, and wool ---- farms	2 697	1.2
$1,000	4 683	1.4
Other livestock and livestock products (see text) ---- farms	3 012	1.3
$1,000	67 957	.3
Value of agricultural products sold directly to individuals for human consumption (see text) ---- farms	4 862	1.2
$1,000	35 806	.8

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses ---- farms	44 865	1.1
$1,000	2 775 313	.4
Average per farm ---- dollars	61 859	1.1
Livestock and poultry purchased ---- farms	17 589	1.6
$1,000	306 690	.8
Feed for livestock and poultry ---- farms	28 684	1.2
$1,000	755 864	.4
Commercially mixed formula feeds ---- farms	17 080	1.5
$1,000	542 636	.4
Seeds, bulbs, plants, and trees ---- farms	30 107	1.2
$1,000	72 804	.7
Commercial fertilizer ---- farms	32 207	1.2
$1,000	108 455	.8
Agricultural chemicals ---- farms	27 229	1.3
$1,000	66 144	.9
Petroleum products ---- farms	43 287	1.1
$1,000	107 247	.7
Electricity ---- farms	34 830	1.2
$1,000	82 113	.5
Hired farm labor ---- farms	14 447	1.5
$1,000	352 456	.2
Contract labor ---- farms	3 240	3.4
$1,000	25 590	1.7
Repair and maintenance ---- farms	39 818	1.1
$1,000	183 367	.8
Customwork, machine hire, and rental of machinery and equipment ---- farms	16 010	1.5
$1,000	34 429	1.0
Interest expense ---- farms	17 895	1.4
$1,000	144 542	.9
Secured by real estate ---- farms	12 603	1.6
$1,000	105 401	1.0
Not secured by real estate ---- farms	9 508	1.8
$1,000	39 141	1.1
Cash rent ---- farms	14 464	1.6
$1,000	76 928	1.2
Property taxes ---- farms	40 766	1.1
$1,000	96 902	1.1
All other farm production expenses ---- farms	41 382	1.1
$1,000	361 780	.4
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT) [1]		
All farms ---- number	44 866	1.1
$1,000	758 341	.6
Average per farm ---- dollars	16 902	1.2
Farms with net gains [2] ---- number	24 345	1.3
$1,000	890 287	.5
Average net gain ---- dollars	36 570	1.4
Farms with net losses ---- number	20 521	1.5
$1,000	131 946	1.8
Average net loss ---- dollars	6 430	2.3
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments ---- farms	7 400	1.0
$1,000	28 134	.6
Other farm-related income [1] ---- farms	10 860	1.9
$1,000	52 118	2.6
Customwork and other agricultural services ---- farms	4 134	3.0
$1,000	21 302	3.2
Gross cash rent or share payments ---- farms	3 041	3.9
$1,000	9 296	5.5
Forest products and Christmas trees ---- farms	2 323	4.4
$1,000	14 948	5.7
Other farm-related income sources ---- farms	3 337	2.9
$1,000	6 572	6.6
COMMODITY CREDIT CORPORATION LOANS		
Total ---- farms	616	.9
$1,000	9 322	.3

See footnotes at end of table.

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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	42 390	1.1
	acres	5 021 773	.8
Harvested cropland	farms	40 090	1.1
	acres	3 861 435	.7
Farms by acres harvested:			
1 to 9 acres	farms	4 953	1.1
	acres	20 425	1.2
10 to 19 acres	farms	4 293	1.3
	acres	58 708	1.3
20 to 29 acres	farms	3 921	1.3
	acres	91 477	1.3
30 to 49 acres	farms	6 143	1.4
	acres	234 112	1.4
50 to 99 acres	farms	9 237	1.4
	acres	638 686	1.4
100 to 199 acres	farms	6 648	1.1
	acres	914 350	1.0
200 to 499 acres	farms	4 016	.5
	acres	1 166 827	.4
500 to 999 acres	farms	706	.2
	acres	469 890	.1
1,000 acres or more	farms	173	–
	acres	266 960	–
Cropland:			
Pasture or grazing only	farms	22 479	1.1
	acres	738 467	1.0
Other cropland	farms	13 565	1.1
	acres	421 871	1.0
Total woodland	farms	27 377	1.1
	acres	1 421 561	1.0
Pastureland and rangeland other than cropland and woodland pastured	farms	11 592	1.1
	acres	407 118	1.0
Land in house lots, ponds, roads, wasteland, etc.	farms	28 972	1.0
	acres	339 089	.9
Irrigated land	farms	2 121	.9
	acres	23 096	.6
Acres irrigated:			
1 to 9 acres	farms	1 713	1.0
	acres	3 799	1.2
10 to 49 acres	farms	307	1.3
	acres	6 313	1.3
50 to 99 acres	farms	59	1.5
	acres	3 768	1.3
100 to 199 acres	farms	25	1.1
	acres	(D)	(D)
200 to 499 acres	farms	15	–
	acres	4 655	–
500 to 999 acres	farms	2	–
	acres	(D)	(D)
1,000 acres or more	farms	–	–
	acres	–	–
Harvested cropland irrigated	farms	2 087	.9
	acres	22 519	.6
Pasture and other land irrigated	farms	59	3.5
	acres	577	3.0
Land under federal acreage reduction programs:			
Diverted under annual commodity programs	farms	3 239	.9
	acres	26 576	.4
Conservation Reserve or Wetlands Reserve Programs	farms	1 551	1.2
	acres	59 980	1.4
VALUE OF LAND AND BUILDINGS [1]			
Estimated market value of land and buildings	farms	44 866	1.1
	$1,000	14 751 728	1.0
Average per farm	dollars	328 795	1.4
Average per acre	dollars	2 056	1.4
VALUE OF MACHINERY AND EQUIPMENT [1]			
Estimated market value of all machinery and equipment	farms	44 852	1.1
	$1,000	2 214 947	.9
Average per farm	dollars	49 383	1.4
AGRICULTURAL CHEMICALS [1]			
Commercial fertilizer	farms	31 894	1.2
	acres on which used	2 716 020	.9

Item		Total	Relative standard error of estimate (percent)
TENURE OF OPERATOR			
All operators	farms	44 870	1.1
	acres	7 189 541	.8
Full owners	farms	25 983	1.1
	acres	2 737 577	1.1
Part owners	farms	14 161	.9
	acres	3 801 721	.6
Tenants	farms	4 726	1.7
	acres	650 243	1.4
OWNED AND RENTED LAND			
Land owned	farms	40 200	1.0
	acres	5 044 475	.9
Owned land in farms	farms	40 144	1.0
	acres	4 800 650	.9
Land rented or leased from others	farms	18 960	1.1
	acres	2 409 571	.8
	landlords	51 547	.9
Rented or leased land in farms	farms	18 887	1.1
	acres	2 388 891	.7
Land rented or leased to others	farms	4 480	1.1
	acres	264 505	1.1
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		36 501	1.0
Not on farm operated		4 980	1.3
Not reported		3 389	1.2
Operators by principal occupation:			
Farming		26 959	1.0
Other		17 911	1.2
Operators by days worked off farm:			
Any		21 243	1.2
200 days or more		13 501	1.3
Operators by sex:			
Male	farms	42 063	1.1
	acres	6 879 682	.8
Female	farms	2 807	1.3
	acres	309 859	1.3
Average age of operator	years	52.2	1.5
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	39 646	1.1
	acres	5 752 266	.9
Partnership	farms	4 063	1.3
	acres	1 092 055	.8
Corporation:			
Family held	farms	887	1.0
	acres	273 999	.5
More than 10 stockholders	farms	25	3.1
10 or less stockholders	farms	862	1.1
Other than family held	farms	129	2.0
	acres	20 881	2.6
More than 10 stockholders	farms	12	4.0
10 or less stockholders	farms	117	2.2
Other—cooperative, estate or trust, institutional, etc.	farms	145	2.3
	acres	50 340	.9
HIRED FARM LABOR			
Hired workers by days worked:			
150 days or more	farms	7 854	1.5
	workers	25 098	.6
Less than 150 days	farms	11 903	1.7
	workers	41 987	1.5
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	543	1.4
	number	608	1.3
Hired workers	farms	448	.7
	number	1 321	.3
Farm-related deaths:			
Operator and family members	farms	10	5.8
	number	10	5.8
Hired workers	farms	5	9.3
	number	5	9.3

See footnotes at end of table.

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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	3 005	1.1
	acres	12 020	1.2
10 to 49 acres	farms	9 095	1.2
	acres	252 376	1.2
50 to 69 acres	farms	4 323	1.3
	acres	253 163	1.3
70 to 99 acres	farms	5 646	1.3
	acres	471 297	1.3
100 to 139 acres	farms	6 208	1.3
	acres	721 189	1.3
140 to 179 acres	farms	3 959	1.3
	acres	622 027	1.3
180 to 219 acres	farms	2 869	1.3
	acres	565 523	1.3
220 to 259 acres	farms	2 038	1.2
	acres	485 273	1.2
260 to 499 acres	farms	5 379	.8
	acres	1 869 057	.8
500 to 999 acres	farms	1 880	.5
	acres	1 223 691	.5
1,000 to 1,999 acres	farms	391	–
	acres	502 323	–
2,000 acres or more	farms	77	–
	acres	211 602	–
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			
Cash grains (011)	farms	5 168	1.3
	acres	998 312	.9
Field crops, except cash grains (013)	farms	5 678	1.3
	acres	801 066	1.3
Vegetables and melons (016)	farms	1 202	1.4
	acres	117 847	1.2
Fruits and tree nuts (017)	farms	1 409	1.3
	acres	130 473	.9
Horticultural specialties (018)	farms	1 876	.9
	acres	105 399	.9
General farms, primarily crop (019)	farms	2 279	1.3
	acres	301 507	1.1
Livestock, except dairy, poultry, and animal specialties (021)	farms	12 802	1.2
	acres	1 624 982	1.2
Dairy farms (024)	farms	10 799	.9
	acres	2 743 421	.5
Poultry and eggs (025)	farms	1 307	.6
	acres	145 215	.4
Animal specialties (027)	farms	1 812	1.5
	acres	106 701	1.6
General farms, primarily livestock and animal specialties (029)	farms	538	1.8
	acres	114 618	1.5
LIVESTOCK			
Cattle and calves inventory	farms	27 984	1.1
	number	1 699 820	.7
Beef cows	farms	11 461	1.3
	number	157 773	1.3
Milk cows	farms	12 448	1.0
	number	625 165	.5
Cattle and calves sold	farms	26 008	1.1
	number	954 013	.6
	$1,000	426 157	.5
Hogs and pigs inventory	farms	5 097	1.2
	number	1 074 574	.4
Hogs and pigs sold	farms	4 577	1.1
	number	2 263 427	.4
	$1,000	192 596	.3
Sheep and lambs of all ages inventory	farms	2 922	1.2
	number	108 040	1.5
Sheep and lambs sold	farms	2 468	1.3
	number	81 013	1.5
Horses and ponies inventory	farms	9 254	1.3
	number	58 024	1.4
Horses and ponies sold	farms	1 902	1.5
	number	7 033	1.5
POULTRY			
Chickens 3 months old or older inventory	farms	3 784	1.1
	number	29 682 108	(L)
Hens and pullets of laying age	farms	3 706	1.1
	number	25 150 847	(L)
Broilers and other meat-type chickens sold	farms	839	1.0
	number	108 113 026	.1
CROPS HARVESTED			
Corn for grain or seed	farms	21 610	1.0
	acres	1 012 263	.6
	bushels	112 034 518	.5
Corn for silage or green chop	farms	13 267	1.0
	acres	389 977	.6
	tons, green	6 136 435	.5
Wheat for grain	farms	7 734	1.0
	acres	182 021	.7
	bushels	8 670 089	.6
Barley for grain	farms	4 424	.9
	acres	79 172	.6
	bushels	5 286 907	.6
Oats for grain	farms	11 205	1.2
	acres	184 186	.9
	bushels	11 064 027	.9
Tobacco	farms	1 348	1.6
	acres	8 445	1.5
	pounds	15 691 177	1.4
Soybeans for beans	farms	5 287	.9
	acres	267 633	.6
	bushels	9 598 286	.6
Irish potatoes	farms	956	1.2
	acres	17 393	.5
	cwt	4 030 015	.4
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	32 640	1.1
	acres	1 787 980	.9
	tons, dry	4 091 919	.8
Alfalfa hay	farms	21 343	1.1
	acres	795 326	.9
	tons, dry	2 188 135	.8
Vegetables harvested for sale (see text)	farms	3 372	1.2
	acres	44 829	.7
Land in orchards	farms	2 317	1.2
	acres	57 656	.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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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	24 367	1.1
Land in farms — acres	5 384 731	.7
Average size of farm — acres	221	1.3
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD		
Total sales (see text) — farms	24 367	1.1
$1,000	3 501 790	.3
Average per farm — dollars	143 710	1.1
Farms by value of sales:		
$10,000 to $19,999 — farms	4 771	1.7
$1,000	67 802	1.7
$20,000 to $24,999 — farms	1 428	1.9
$1,000	31 851	1.9
$25,000 to $39,999 — farms	2 687	2.0
$1,000	85 273	2.0
$40,000 to $49,999 — farms	1 228	1.9
$1,000	54 600	1.9
$50,000 to $99,999 — farms	5 241	1.6
$1,000	390 851	1.6
$100,000 to $249,999 — farms	6 291	–
$1,000	958 715	–
$250,000 to $499,999 — farms	1 707	–
$1,000	580 627	–
$500,000 or more — farms	1 014	–
$1,000	1 332 071	–
Sales by commodity or commodity group:		
Crops, including nursery and greenhouse crops — farms	16 441	1.1
$1,000	1 006 987	.3
Grains — farms	11 381	1.0
$1,000	218 349	.5
Corn for grain — farms	7 443	1.1
$1,000	135 611	.5
Wheat — farms	5 651	1.0
$1,000	24 230	.6
Soybeans — farms	4 408	.9
$1,000	46 965	.5
Sorghum for grain — farms	68	3.0
$1,000	368	4.6
Barley — farms	1 656	1.0
$1,000	4 470	.6
Oats — farms	2 302	1.3
$1,000	4 745	.9
Other grains — farms	990	1.0
$1,000	1 959	.8
Cotton and cottonseed — farms	–	–
$1,000	–	–
Tobacco — farms	1 241	1.6
$1,000	19 474	1.4
Hay, silage, and field seeds — farms	6 723	1.2
$1,000	71 918	1.1
Vegetables, sweet corn, and melons — farms	2 321	1.3
$1,000	56 653	.6
Fruits, nuts, and berries — farms	1 382	1.2
$1,000	86 790	.4
Nursery and greenhouse crops — farms	1 670	.9
$1,000	530 308	.1
Other crops — farms	671	1.3
$1,000	23 497	.4
Livestock, poultry, and their products — farms	19 399	1.0
$1,000	2 494 803	.3
Poultry and poultry products — farms	2 213	.9
$1,000	598 849	(L)
Dairy products — farms	11 394	.9
$1,000	1 236 340	.4
Cattle and calves — farms	17 297	1.1
$1,000	402 091	.5
Hogs and pigs — farms	3 088	1.2
$1,000	190 034	.3
Sheep, lambs, and wool — farms	1 030	1.3
$1,000	2 650	1.7
Other livestock and livestock products (see text) — farms	1 422	1.5
$1,000	64 839	.3
Value of agricultural products sold directly to individuals for human consumption (see text) — farms	2 597	1.4
$1,000	32 227	.7

Item	Total	Relative standard error of estimate (percent)
FARM PRODUCTION EXPENSES[1]		
Total farm production expenses — farms	24 261	1.1
$1,000	2 647 440	.3
Average per farm — dollars	109 123	1.2
Livestock and poultry purchased — farms	11 810	1.6
$1,000	298 411	.8
Feed for livestock and poultry — farms	18 150	1.2
$1,000	744 539	.4
Commercially mixed formula feeds — farms	13 110	1.4
$1,000	539 076	.4
Seeds, bulbs, plants, and trees — farms	20 275	1.2
$1,000	69 352	.7
Commercial fertilizer — farms	20 468	1.2
$1,000	100 223	.8
Agricultural chemicals — farms	19 285	1.2
$1,000	63 403	.9
Petroleum products — farms	23 899	1.1
$1,000	95 857	.6
Electricity — farms	21 862	1.1
$1,000	77 918	.4
Hired farm labor — farms	11 468	1.4
$1,000	350 488	.2
Contract labor — farms	2 402	3.4
$1,000	24 919	1.7
Repair and maintenance — farms	23 149	1.1
$1,000	162 973	.7
Customwork, machine hire, and rental of machinery and equipment — farms	12 025	1.5
$1,000	32 451	1.0
Interest expense — farms	13 815	1.3
$1,000	134 326	.8
Secured by real estate — farms	9 504	1.5
$1,000	96 542	1.0
Not secured by real estate — farms	8 013	1.7
$1,000	37 785	1.1
Cash rent — farms	12 058	1.5
$1,000	75 221	1.2
Property taxes — farms	21 481	1.1
$1,000	68 892	1.0
All other farm production expenses — farms	24 260	1.1
$1,000	348 466	.4
NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT) [1]		
All farms — number	24 262	1.1
$1,000	816 828	.6
Average per farm — dollars	33 667	1.3
Farms with net gains [2] — number	19 358	1.2
$1,000	880 484	.5
Average net gain — dollars	45 484	1.3
Farms with net losses — number	4 904	2.8
$1,000	63 656	2.3
Average net loss — dollars	12 980	3.6
GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
Government payments — farms	5 237	.9
$1,000	24 483	.5
Other farm-related income [1] — farms	7 013	2.0
$1,000	41 027	2.6
Customwork and other agricultural services — farms	3 034	3.1
$1,000	19 310	3.3
Gross cash rent or share payments — farms	1 441	5.1
$1,000	6 058	4.9
Forest products and Christmas trees — farms	1 262	5.4
$1,000	10 554	6.5
Other farm-related income sources — farms	2 746	2.8
$1,000	5 105	4.6
COMMODITY CREDIT CORPORATION LOANS		
Total — farms	564	.8
$1,000	9 270	.3

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)
LAND IN FARMS ACCORDING TO USE			
Total cropland	farms	23 356	1.1
	acres	4 061 555	.7
Harvested cropland	farms	22 805	1.1
	acres	3 336 713	.6
Cropland:			
Pasture or grazing only	farms	12 344	1.1
	acres	479 995	1.0
Total woodland	farms	14 168	1.0
	acres	849 862	.8
Pastureland and rangeland other than cropland and woodland pastured	farms	6 538	1.1
	acres	266 817	.9
Land in house lots, ponds, roads, wasteland, etc.	farms	15 434	1.0
	acres	206 497	.8
Irrigated land	farms	1 655	.9
	acres	21 436	.5
Harvested cropland irrigated	farms	1 637	.9
	acres	20 998	.5
Pasture and other land irrigated	farms	38	3.1
	acres	438	1.3
Land under federal acreage reduction programs:			
Diverted under annual commodity programs	farms	2 766	.8
	acres	25 513	.4
Conservation Reserve or Wetlands Reserve Programs	farms	805	1.1
	acres	29 756	1.0
VALUE OF LAND AND BUILDINGS [1]			
Estimated market value of land and buildings	farms	24 262	1.1
	$1,000	11 309 156	.9
Average per farm	dollars	466 126	1.4
Average per acre	dollars	2 105	1.3
VALUE OF MACHINERY AND EQUIPMENT [1]			
Estimated market value of all machinery and equipment	farms	24 262	1.1
	$1,000	1 818 104	.9
Average per farm	dollars	74 936	1.4
AGRICULTURAL CHEMICALS[1]			
Commercial fertilizer	farms	20 397	1.2
	acres on which used	2 476 287	.9
TENURE OF OPERATOR			
All operators	farms	24 367	1.1
	acres	5 384 731	.7
Full owners	farms	10 047	1.1
	acres	1 379 574	1.0
Part owners	farms	10 811	.8
	acres	3 433 114	.5
Tenants	farms	3 509	1.9
	acres	572 043	1.3
OWNED AND RENTED LAND			
Land owned	farms	20 899	1.0
	acres	3 352 181	.7
Owned land in farms	farms	20 858	1.0
	acres	3 232 131	.7
Land rented or leased from others	farms	14 368	1.0
	acres	2 169 053	.7
	landlords	43 408	.8
Rented or leased land in farms	farms	14 320	1.0
	acres	2 152 600	.7
Land rented or leased to others	farms	1 935	1.1
	acres	136 503	1.0
OPERATOR CHARACTERISTICS			
Operators by place of residence:			
On farm operated		19 900	1.0
Not on farm operated		2 503	1.5
Not reported		1 964	1.2
Operators by principal occupation:			
Farming		19 561	1.0
Other		4 806	1.5
Operators by days worked off farm:			
Any		8 350	1.4
200 days or more		4 159	1.5
Operators by sex:			
Male		23 396	1.1
Female		971	1.4
Average age of operator	years	49.4	1.5

Item		Total	Relative standard error of estimate (percent)
FARMS BY TYPE OF ORGANIZATION			
Individual or family (sole proprietorship)	farms	20 487	1.1
	acres	4 091 886	.8
Partnership	farms	3 038	1.1
	acres	983 312	.6
Corporation:			
Family held	farms	676	.7
	acres	253 263	.4
More than 10 stockholders	farms	22	2.0
10 or less stockholders	farms	654	.7
Other than family held	farms	95	1.6
	acres	16 125	2.0
More than 10 stockholders	farms	10	3.3
10 or less stockholders	farms	85	1.7
Other—cooperative, estate or trust, institutional, etc.	farms	71	2.1
	acres	40 145	.6
HIRED FARM LABOR			
Hired workers by days worked:			
150 days or more	farms	6 971	1.4
	workers	24 202	.5
Less than 150 days	farms	8 961	1.7
	workers	36 025	1.5
INJURIES AND DEATHS			
Farm-related injuries:			
Operator and family members	farms	427	1.3
	number	483	1.3
Hired workers	farms	422	.6
	number	1 295	.2
Farm-related deaths:			
Operator and family members	farms	8	5.4
	number	(D)	(D)
Hired workers	farms	2	–
	number	(D)	(D)
FARMS BY SIZE			
1 to 9 acres		1 301	1.1
10 to 49 acres		2 543	1.5
50 to 69 acres		1 691	1.6
70 to 99 acres		2 626	1.5
100 to 139 acres		3 321	1.4
140 to 179 acres		2 511	1.3
180 to 219 acres		2 018	1.2
220 to 259 acres		1 581	1.1
260 to 499 acres		4 579	.7
500 to 999 acres		1 746	.4
1,000 to 1,999 acres		375	–
2,000 acres or more		75	–
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			
Cash grains (011)		2 416	1.4
Field crops, except cash grains (013)		1 811	1.7
Vegetables and melons (016)		633	1.7
Fruits and tree nuts (017)		666	1.4
Horticultural specialties (018)		1 355	.8
General farms, primarily crop (019)		770	1.6
Livestock, except dairy, poultry, and animal specialties (021)		4 417	1.3
Dairy farms (024)		10 659	.9
Poultry and eggs (025)		1 071	.4
Animal specialties (027)		298	1.9
General farms, primarily livestock and animal specialties (029)		271	2.0
LIVESTOCK			
Cattle and calves inventory	farms	17 360	1.1
	number	1 525 734	.6
Beef cows	farms	3 695	1.4
	number	81 603	1.2
Milk cows	farms	11 686	1.0
	number	622 980	.5
Cattle and calves sold	farms	17 297	1.1
	number	893 965	.6
	$1,000	402 091	.5
Hogs and pigs inventory	farms	3 158	1.2
	number	1 048 805	.4
Hogs and pigs sold	farms	3 088	1.2
	number	2 224 908	.4
	$1,000	190 034	.3
Sheep and lambs of all ages inventory	farms	1 133	1.3
	number	51 100	1.9
Sheep and lambs sold	farms	909	1.4
	number	40 898	1.9
Horses and ponies inventory	farms	4 098	1.6
	number	27 939	1.4
Horses and ponies sold	farms	922	1.7
	number	4 764	1.7

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	1 965	1.2
	number	29 609 863	(L)
Hens and pullets of laying age	farms	1 903	1.2
	number	25 090 630	(L)
Broilers and other meat-type chickens sold	farms	667	.9
	number	108 053 757	.1
CROPS HARVESTED			
Corn for grain or seed	farms	15 141	1.0
	acres	942 182	.5
	bushels	106 133 722	.5
Corn for silage or green chop	farms	11 889	1.0
	acres	376 490	.5
	tons, green	5 982 237	.5
Wheat for grain	farms	5 906	1.0
	acres	166 746	.6
	bushels	8 074 396	.6
CROPS HARVESTED—Con.			
Barley for grain	farms	3 734	.9
	acres	74 333	.6
	bushels	5 023 802	.5
Oats for grain	farms	7 111	1.2
	acres	151 594	.9
	bushels	9 381 514	.8
Tobacco	farms	1 242	1.6
	acres	82 155	1.5
	pounds	15 308 853	1.4
Soybeans for beans	farms	4 517	.9
	acres	256 429	.6
	bushels	9 273 860	.5
Irish potatoes	farms	698	1.3
	acres	17 112	.5
	cwt	3 986 757	.5
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	18 534	1.1
	acres	1 406 910	.8
	tons, dry	3 515 021	.7
Alfalfa hay	farms	14 250	1.1
	acres	652 753	.8
	tons, dry	1 936 607	.7
Vegetables harvested for sale (see text)	farms	2 321	1.3
	acres	42 011	.7
Land in orchards	farms	1 099	1.3
	acres	51 968	.4

[1]Data are based on a sample of farms.
[2]Farms with total production expenses equal to market value of agricultural products sold are included as farms with gains 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	–13.0	1.2	–5.9	1.3
Land in farms	acres	–8.6	1.0	–5.9	.9
Average size of farm	acres	4.6	1.9	–	1.7
Estimated market value of land and buildings [1]:					
Average per farm	dollars	37.4	2.7	32.2	2.6
Average per acre	dollars	30.2	2.5	30.3	2.5
Estimated market value of all machinery and equipment [1]:					
Average per farm	dollars	18.6	2.4	14.7	2.3
Farms by size:					
1 to 9 acres		–20.1	1.2	–5.9	1.4
10 to 49 acres		–11.4	1.5	15.4	2.2
50 to 179 acres		–15.0	1.4	–7.5	1.7
180 to 499 acres		–10.2	1.2	–10.4	1.1
500 to 999 acres		–4.1	.7	–4.1	.6
1,000 to 1,999 acres		11.7	–	10.3	–
2,000 acres or more		16.7	–	17.2	–
Total cropland	farms	–12.7	1.2	–6.0	1.3
	acres	–7.0	1.0	–4.3	.9
Harvested cropland	farms	–13.1	1.2	–6.3	1.3
	acres	–5.4	.9	–2.6	.9
Irrigated land	farms	–3.9	1.0	–2.8	1.0
	acres	–21.7	.7	–21.3	.6
Market value of agricultural products sold	$1,000	16.0	.6	16.9	.6
Average per farm	dollars	33.3	2.0	24.3	1.9
Crops, including nursery and greenhouse crops	$1,000	26.1	.5	28.0	.5
Livestock, poultry, and their products	$1,000	12.3	.6	12.9	.6
Farms by value of sales:					
Less than $2,500		–24.4	1.1	(X)	(X)
$2,500 to $4,999		–18.5	1.5	(X)	(X)
$5,000 to $9,999		–12.9	1.6	(X)	(X)
$10,000 to $24,999		–7.8	1.9	–7.8	1.9
$25,000 to $49,999		–16.3	2.0	–16.3	2.0
$50,000 to $99,999		–24.0	1.7	–24.0	1.7
$100,000 to $249,999		14.4	(L)	14.4	(L)
$250,000 to $499,999		26.8	(L)	26.8	(L)
$500,000 or more		32.0	–	32.0	–
Total farm production expenses [1]	$1,000	16.3	1.3	17.9	1.4
Average per farm	dollars	33.6	2.1	26.0	2.0
Net cash return from agricultural sales for the farm unit (see text) [1]	farms	–13.0	1.3	–6.4	1.4
	$1,000	14.6	1.3	13.2	1.1
Average per farm	dollars	31.7	2.4	21.0	2.2
Operators by principal occupation:					
Farming		–9.5	1.2	–7.9	1.3
Other		–17.7	1.4	3.0	1.9
Operators by days worked off farm:					
Any		–20.2	4.1	–8.9	4.7
200 days or more		–21.1	4.1	–.5	5.2
Livestock and poultry:					
Cattle and calves inventory	farms	–16.2	1.2	–10.1	1.3
	number	–2.6	.9	–.8	.9
Beef cows	farms	–14.7	1.5	.1	1.8
	number	–1.8	1.6	10.3	1.8
Milk cows	farms	–17.5	1.2	–13.7	1.2
	number	–7.1	.8	–6.5	.8
Cattle and calves sold	farms	–16.8	1.2	–11.3	1.3
	number	–2.2	.9	–.2	.9
Hogs and pigs inventory	farms	–27.0	1.1	–24.7	1.2
	number	16.8	.7	19.1	.7
Hogs and pigs sold	farms	–29.5	1.0	–26.5	1.1
	number	13.3	.8	14.6	.8
Sheep and lambs inventory	farms	–11.8	1.5	–7.7	1.6
	number	–4.6	1.9	–2.1	2.6
Chickens 3 months old or older inventory	farms	–36.5	1.0	–30.1	1.2
	number	16.2	.1	16.4	.1
Broilers and other meat-type chickens sold	farms	–20.2	1.1	–10.0	1.2
	number	1.6	.1	1.6	.1
Selected crops harvested:					
Corn for grain or seed	farms	–19.9	1.1	–12.5	1.2
	acres	–5.4	.8	–2.1	.8
	bushels	12.8	.9	16.5	.9
Corn for silage or green chop	farms	–12.3	1.2	–11.5	1.3
	acres	–11.0	.8	–10.6	.8
	tons, green	–1.3	.8	–.9	.8
Wheat for grain	farms	–20.4	1.1	–15.0	1.2
	acres	–2.2	.9	2.8	.9
	bushels	13.1	1.0	18.3	1.0
Oats for grain	farms	–24.8	1.1	–22.5	1.2
	acres	–24.3	.9	–23.1	.9
	bushels	–20.3	1.0	–19.0	.9
Irish potatoes	farms	–14.1	1.4	–10.2	1.6
	acres	–19.9	.7	–19.3	.7
	cwt	–9.0	.7	–8.7	.7
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)	farms	–14.4	1.2	–9.2	1.3
	acres	–6.7	1.1	–4.6	1.0
	tons, dry	–8.6	1.0	–6.4	.9
Land in orchards	farms	–17.4	1.4	–8.6	1.6
	acres	–13.3	.7	–11.7	.6

[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)
Pennsylvania	**44 870**	**1.1**	**7 189 541**	**.8**	**160**	**1.3**	**328 795**	**1.4**	**2 214 947**	**.9**
Adams	957	.8	172 366	.5	180	.9	422 036	4.3	57 243	3.4
Allegheny	338	1.0	32 526	1.6	96	1.9	252 280	9.8	11 348	8.3
Armstrong	667	1.2	119 566	1.2	179	1.6	257 320	5.0	52 921	3.5
Beaver	512	1.2	57 960	1.3	113	1.8	217 513	6.3	17 259	7.0
Bedford	938	1.1	199 056	.9	212	1.5	270 305	3.9	46 687	3.0
Berks	1 558	.9	221 981	.7	142	1.1	459 453	2.6	99 583	2.4
Blair	415	.9	76 466	.7	184	1.2	331 309	5.5	27 129	3.5
Bradford	1 335	1.0	310 672	.7	233	1.3	253 003	2.5	68 754	2.3
Bucks	680	1.1	76 790	1.1	113	1.5	587 157	5.5	38 615	3.9
Butler	1 012	1.2	129 323	1.2	128	1.7	234 640	8.3	36 606	4.2
Cambria	518	1.3	76 997	1.3	149	1.8	170 510	6.1	22 421	4.5
Cameron	25	1.7	(D)	(D)	(D)	(D)	205 100	11.4	796	6.5
Carbon	147	1.2	19 026	2.1	129	2.4	368 059	7.7	6 560	5.0
Centre	734	1.2	139 918	.9	191	1.6	430 150	5.3	39 564	6.3
Chester	1 367	1.1	176 643	.9	129	1.4	679 379	2.6	80 712	2.7
Clarion	444	1.6	94 817	1.6	214	2.2	192 639	7.3	20 047	13.0
Clearfield	346	1.0	55 023	1.4	159	1.7	163 086	5.0	11 427	5.3
Clinton	243	1.8	39 412	1.8	162	2.6	277 603	6.6	12 522	8.1
Columbia	598	.9	101 816	.8	170	1.3	297 247	3.4	32 036	5.7
Crawford	1 122	1.4	211 037	1.2	188	1.8	161 052	3.6	53 989	4.2
Cumberland	940	1.1	141 919	.9	151	1.4	405 742	3.7	50 174	3.0
Dauphin	580	.9	90 298	.8	156	1.2	471 188	3.3	31 225	5.9
Delaware	68	.7	5 095	1.4	75	1.6	1 067 049	2.8	3 558	1.8
Elk	145	1.6	16 371	2.2	113	2.8	146 253	10.8	4 803	13.7
Erie	1 165	1.3	167 863	1.1	144	1.7	231 289	3.9	59 047	3.6
Fayette	767	2.1	106 390	2.4	139	3.2	173 188	6.1	27 227	6.3
Forest	36	1.2	4 702	3.5	131	3.7	(D)	(D)	1 141	4.2
Franklin	1 283	.8	234 391	.6	183	1.0	412 108	2.1	87 565	1.8
Fulton	438	1.1	88 982	1.0	203	1.5	198 168	4.6	17 844	3.2
Greene	633	1.2	125 707	1.4	199	1.8	135 561	6.2	16 532	12.3
Huntingdon	558	1.3	129 503	1.1	232	1.7	272 826	3.8	32 356	5.7
Indiana	747	1.2	143 036	1.1	191	1.6	226 493	4.8	29 629	3.5
Jefferson	410	1.3	79 310	1.4	193	1.9	191 515	8.9	16 372	9.1
Juniata	539	.9	85 113	1.0	158	1.3	335 487	15.9	27 712	8.5
Lackawanna	239	1.5	36 963	1.4	155	2.1	329 382	13.8	9 788	18.4
Lancaster	4 490	1.1	388 368	.8	86	1.4	427 332	1.9	223 453	1.6
Lawrence	625	1.7	86 402	1.6	138	2.4	180 205	6.3	25 130	4.4
Lebanon	892	.6	104 519	.5	117	.8	404 569	2.0	52 309	3.0
Lehigh	427	1.0	82 982	.7	194	1.2	748 196	5.6	28 581	4.3
Luzerne	376	1.1	49 850	1.3	133	1.7	306 432	15.5	14 300	5.4
Lycoming	803	1.0	132 999	1.0	166	1.4	244 433	3.7	34 100	4.7
McKean	211	1.3	39 561	1.8	187	2.2	176 321	11.2	5 240	10.3
Mercer	1 045	1.3	160 802	1.0	154	1.7	151 832	4.0	44 381	5.0
Mifflin	618	1.1	81 426	1.1	132	1.5	207 742	3.9	27 717	8.7
Monroe	147	1.7	20 777	2.2	141	2.8	370 035	9.2	7 469	18.9
Montgomery	461	1.0	44 425	1.2	96	1.5	594 088	7.7	24 125	13.3
Montour	249	1.1	41 347	1.4	166	1.8	332 159	7.1	15 146	17.0
Northampton	391	1.1	81 479	.8	208	1.3	653 862	4.9	27 303	4.8
Northumberland	561	.7	109 438	.6	195	.9	342 277	4.0	33 344	4.2
Perry	562	1.0	104 292	1.0	186	1.4	347 192	7.9	26 765	7.5
Philadelphia	6	2.4	(D)	(D)	(D)	(D)	(D)	(D)	288	4.2
Pike	36	.6	6 197	1.5	172	1.6	498 078	4.5	1 402	3.2
Potter	293	1.0	90 065	1.1	307	1.5	295 305	6.5	18 898	9.2
Schuylkill	578	.8	89 045	.9	154	1.2	321 172	5.1	32 115	4.4
Snyder	664	1.3	87 253	1.2	131	1.8	253 631	5.9	29 261	7.7
Somerset	973	1.1	219 933	.9	226	1.4	241 521	5.3	48 402	3.4
Sullivan	142	1.1	30 613	1.6	216	1.9	245 017	7.0	5 661	5.0
Susquehanna	710	1.6	177 215	1.6	250	2.3	271 957	4.4	34 490	6.8
Tioga	823	1.3	212 477	1.0	258	1.6	235 098	4.5	35 077	3.7
Union	451	1.0	63 159	.9	140	1.4	368 528	5.3	24 308	6.0
Venango	348	1.0	52 760	1.3	152	1.6	139 104	5.9	10 981	9.6
Warren	385	1.6	67 388	1.8	175	2.5	134 142	11.8	13 411	7.4
Washington	1 369	1.2	203 026	1.4	148	1.8	230 757	5.3	47 356	5.3
Wayne	600	1.4	121 907	1.4	203	2.0	391 430	7.6	27 136	5.2
Westmoreland	1 139	1.3	153 897	1.2	135	1.8	233 232	5.0	46 413	6.0
Wyoming	299	.9	62 740	1.1	210	1.5	265 922	4.6	15 026	7.1
York	1 692	.7	252 052	.5	149	.9	421 764	2.9	84 167	3.1

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)
Pennsylvania	**49 383**	**1.4**	**3 570 191**	**.3**	**79 567**	**1.1**	**44 865**	**1.1**	**2 775 313**	**.4**
Adams	59 877	3.5	123 700	.2	129 258	.8	956	1.1	107 377	.6
Allegheny	33 575	8.4	11 393	.6	33 708	1.2	338	1.3	9 945	2.2
Armstrong	79 342	3.7	67 933	.2	101 849	1.2	667	1.2	65 320	.8

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)
Beaver	33 840	7.1	12 309	1.0	24 042	1.6	510	1.2	8 923	4.5
Bedford	49 773	3.2	54 369	.5	57 963	1.2	938	1.3	41 680	2.1
Berks	63 917	2.7	237 695	.2	152 564	.9	1 558	1.1	172 048	.5
Blair	65 528	3.7	41 703	.3	100 490	1.0	414	.9	30 985	1.7
Bradford	51 540	2.4	129 578	.3	97 062	1.1	1 334	.8	101 986	.7
Bucks	56 787	4.1	61 812	.2	90 901	1.1	680	1.2	49 232	1.0
Butler	36 172	4.3	28 259	.8	27 924	1.4	1 012	1.1	22 898	2.9
Cambria	43 368	4.7	16 708	.7	32 254	1.4	517	1.5	15 061	5.4
Cameron	31 827	9.2	256	1.6	10 225	2.3	25	6.5	230	4.0
Carbon	44 930	5.4	5 283	.9	35 936	1.5	146	2.1	4 232	2.6
Centre	53 829	6.4	44 772	.7	60 998	1.4	735	1.4	34 591	2.9
Chester	59 043	2.9	282 566	.1	206 705	1.1	1 367	1.2	219 822	.4
Clarion	45 050	13.1	13 893	1.0	31 291	1.8	445	1.6	10 909	3.4
Clearfield	32 931	5.4	8 395	1.2	24 264	1.5	347	1.1	5 986	4.2
Clinton	51 318	8.3	17 081	1.0	70 292	2.0	244	1.8	12 659	4.9
Columbia	53 572	5.8	28 481	.5	47 627	1.1	598	1.1	25 183	2.2
Crawford	48 162	4.4	52 848	.9	47 102	1.7	1 121	1.4	41 305	2.0
Cumberland	53 376	3.3	75 633	.4	80 461	1.2	940	1.4	57 701	1.4
Dauphin	54 780	6.2	49 405	.3	85 180	.9	578	1.0	40 055	1.2
Delaware	52 325	3.2	6 943	.1	102 109	.7	68	2.7	5 352	.3
Elk	33 122	13.9	3 076	2.2	21 212	2.7	145	2.4	2 925	5.4
Erie	50 641	3.8	64 948	.6	55 749	1.4	1 166	1.2	48 875	1.7
Fayette	35 497	6.7	16 969	1.4	22 124	2.5	767	2.1	14 822	3.6
Forest	31 698	6.5	580	1.9	16 113	2.3	36	5.0	494	2.9
Franklin	68 304	2.0	168 546	.2	131 368	.8	1 282	.8	124 249	.7
Fulton	40 739	3.4	19 886	.6	45 402	1.2	438	1.1	15 912	2.7
Greene	26 158	12.4	6 752	1.3	10 666	1.8	632	1.3	6 381	5.4
Huntingdon	58 091	5.9	36 576	.5	65 549	1.4	557	1.4	30 899	1.9
Indiana	39 664	3.8	41 331	.5	55 329	1.3	747	1.3	31 830	2.0
Jefferson	39 931	9.2	14 856	.8	36 234	1.5	410	1.6	11 196	2.7
Juniata	51 414	8.6	51 004	.4	94 627	1.0	539	1.0	39 738	1.7
Lackawanna	40 955	18.5	11 441	.8	47 869	1.7	239	1.5	7 945	3.8
Lancaster	49 767	1.9	680 867	.4	151 641	1.2	4 490	1.1	511 550	.5
Lawrence	40 208	4.7	23 983	1.0	38 372	2.0	625	1.7	16 929	2.6
Lebanon	58 708	3.0	131 837	.2	147 799	.6	891	.6	99 603	.6
Lehigh	67 250	4.5	42 640	.3	99 859	1.0	425	1.4	36 929	1.4
Luzerne	38 132	5.6	14 832	.9	39 446	1.4	375	1.2	11 050	3.7
Lycoming	42 572	4.8	38 843	.5	48 373	1.1	801	1.0	30 577	2.6
McKean	24 836	10.4	3 797	1.9	17 993	2.3	211	1.7	2 959	9.8
Mercer	42 510	5.3	41 092	.7	39 322	1.5	1 044	1.8	31 158	2.1
Mifflin	44 849	8.8	46 695	.5	75 558	1.2	618	1.2	34 427	1.3
Monroe	50 812	19.1	4 038	1.4	27 470	2.2	147	2.5	3 416	3.1
Montgomery	52 332	13.3	27 714	.4	60 118	1.0	461	1.0	25 766	1.6
Montour	61 073	17.0	12 629	1.0	50 717	1.5	248	1.3	9 192	3.9
Northampton	69 650	4.9	29 356	.5	75 080	1.2	392	1.2	24 278	1.7
Northumberland	59 331	4.4	51 307	.2	91 456	.8	562	1.2	42 240	1.4
Perry	47 625	7.6	40 509	.3	72 081	1.1	562	1.1	31 897	1.6
Philadelphia	47 917	9.6	511	3.0	85 224	3.9	6	8.7	354	.2
Pike	38 943	4.8	2 092	.6	58 120	.8	36	3.5	1 619	.7
Potter	64 500	9.3	18 921	.6	64 576	1.2	293	1.3	15 361	2.0
Schuylkill	55 466	4.5	42 554	.3	73 623	.9	579	1.1	35 614	1.4
Snyder	44 001	7.9	55 582	.6	83 708	1.4	665	1.6	42 099	3.1
Somerset	49 694	3.6	57 335	.5	58 926	1.2	974	1.1	42 366	1.4
Sullivan	39 863	5.3	7 875	1.0	55 458	1.4	142	1.8	6 019	3.1
Susquehanna	48 509	7.0	42 073	.9	59 258	1.8	711	1.7	32 950	1.9
Tioga	42 621	3.9	47 385	.7	57 576	1.4	823	1.1	36 702	1.3
Union	54 624	6.2	37 404	.6	82 935	1.2	451	1.1	27 592	2.1
Venango	31 463	9.7	6 387	1.2	18 353	1.6	349	1.2	5 416	6.1
Warren	34 743	7.6	15 022	1.1	39 018	2.0	386	1.6	10 962	3.1
Washington	34 542	5.4	26 952	.9	19 687	1.5	1 371	1.3	22 955	3.0
Wayne	45 151	5.4	26 137	1.0	43 561	1.7	601	1.4	21 233	3.1
Westmoreland	40 749	6.2	38 614	.6	33 901	1.4	1 139	1.4	32 432	2.1
Wyoming	50 087	7.2	28 161	.4	94 186	1.0	300	1.4	11 896	3.2
York	49 744	3.3	120 068	.2	70 962	.8	1 691	.8	99 027	.7

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)
Pennsylvania	**17 589**	**1.6**	**306 690**	**.8**	**28 684**	**1.2**	**755 864**	**.4**	**30 107**	**1.2**	**72 804**	**.7**
Adams	305	9.9	10 398	2.7	523	6.4	33 135	.9	674	4.7	1 858	3.1
Allegheny	97	20.0	294	9.6	109	19.9	602	11.8	117	14.8	1 043	1.4
Armstrong	191	14.1	1 114	10.7	423	7.1	2 612	3.9	438	5.3	441	7.0
Beaver	142	13.7	280	9.6	260	9.1	1 500	11.1	306	8.3	287	4.2

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 9
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	307	9.6	2 510	4.3	663	5.1	12 561	3.5	597	5.0	1 226	3.8
Berks	722	5.3	13 962	2.9	952	4.1	33 962	1.0	1 186	3.2	4 169	3.0
Blair	212	8.9	2 471	18.0	320	5.1	9 035	2.3	327	5.8	898	5.3
Bradford	515	6.6	23 623	2.2	976	3.4	35 760	.9	747	4.8	1 319	4.4
Bucks	173	13.0	1 763	2.6	309	8.6	3 040	5.5	384	5.3	3 257	2.3
Butler	317	8.3	1 749	11.5	624	4.8	3 307	7.1	658	5.0	1 054	7.2
Cambria	168	14.1	1 267	6.2	260	11.2	1 906	12.0	382	6.0	899	11.8
Cameron	6	11.6	3	25.8	22	6.8	66	1.0	11	9.0	(D)	(D)
Carbon	55	11.1	258	11.7	73	7.7	325	10.1	113	5.1	435	1.3
Centre	322	9.8	1 947	9.3	526	5.7	8 250	6.6	547	4.2	1 200	2.9
Chester	467	7.0	11 349	1.2	815	4.5	18 218	1.9	804	3.7	6 232	.9
Clarion	163	14.3	798	23.2	320	7.2	2 431	7.0	272	9.8	338	3.9
Clearfield	91	19.0	206	29.2	188	8.5	1 164	4.8	232	7.8	242	7.8
Clinton	99	16.9	1 499	20.7	155	10.6	2 577	8.9	166	5.2	398	4.2
Columbia	154	12.9	1 171	7.6	282	8.8	3 003	4.0	446	5.0	1 773	3.4
Crawford	463	7.5	3 298	5.9	785	4.2	12 079	2.8	711	4.4	1 103	6.9
Cumberland	430	7.4	6 667	4.8	588	5.5	15 838	3.9	752	3.4	1 671	2.9
Dauphin	253	9.6	5 085	3.6	336	6.6	14 797	1.1	452	4.5	889	4.0
Delaware	13	6.8	62	4.2	21	5.2	192	1.3	27	3.2	234	.2
Elk	37	19.4	241	6.2	90	9.0	875	6.7	76	7.7	62	14.3
Erie	279	10.5	2 376	4.9	515	7.4	6 825	6.1	592	6.4	1 611	4.1
Fayette	203	14.9	722	16.7	490	7.1	2 727	8.7	414	8.1	427	6.8
Forest	18	7.3	22	8.7	25	6.0	118	2.0	20	6.6	13	3.9
Franklin	629	4.7	12 765	3.9	953	3.0	40 379	.9	990	2.6	2 636	2.7
Fulton	155	16.5	1 494	4.6	303	8.3	4 924	1.7	301	8.1	344	16.3
Greene	163	17.8	250	23.5	366	8.3	1 283	6.9	128	16.8	117	18.1
Huntingdon	202	11.5	3 386	4.4	418	5.2	8 137	3.3	370	6.5	754	2.2
Indiana	212	12.4	1 563	15.2	415	7.0	4 690	6.1	536	4.8	1 242	4.4
Jefferson	130	15.7	396	15.2	215	10.5	1 632	7.6	270	8.3	505	5.0
Juniata	278	9.4	4 877	9.1	360	5.4	17 945	1.8	420	5.5	768	4.4
Lackawanna	66	25.1	637	9.7	172	10.8	1 211	9.5	97	19.9	392	8.4
Lancaster	2 798	2.1	97 458	1.3	3 573	1.6	209 565	.5	3 767	1.6	7 220	1.4
Lawrence	245	12.3	1 037	19.1	450	6.0	3 575	4.2	461	5.2	625	3.7
Lebanon	482	5.2	14 871	2.6	648	3.9	40 074	.6	693	3.5	2 015	1.6
Lehigh	84	24.4	1 663	4.8	174	14.2	8 686	1.9	321	6.2	1 719	2.6
Luzerne	104	20.5	471	14.7	175	14.4	1 567	5.1	197	13.2	429	13.6
Lycoming	284	9.5	3 350	4.7	475	6.1	7 984	5.0	578	5.0	1 001	2.8
McKean	88	18.8	196	41.9	147	10.6	710	15.6	84	19.1	53	17.1
Mercer	375	9.9	1 756	11.3	656	5.4	5 675	4.1	763	4.8	1 216	4.3
Mifflin	307	8.2	3 451	5.6	470	4.8	10 492	1.7	462	5.3	617	3.7
Monroe	35	22.3	208	12.4	69	9.9	433	11.4	86	10.9	134	7.4
Montgomery	148	16.8	2 737	5.8	214	12.0	5 067	3.1	289	7.3	868	3.9
Montour	87	18.5	816	20.7	132	15.3	1 767	11.5	197	7.4	411	6.7
Northampton	105	15.5	1 082	4.5	184	11.4	3 198	2.2	291	5.3	1 586	3.8
Northumberland	273	9.2	5 178	5.3	310	8.0	10 639	1.8	484	3.2	1 680	3.8
Perry	211	10.9	4 195	5.5	368	6.3	11 323	1.0	442	4.8	715	4.3
Philadelphia	–	–	–	–	–	–	–	–	4	9.0	(D)	(D)
Pike	9	6.6	11	4.7	16	5.3	108	.7	19	4.1	58	.2
Potter	129	14.5	1 048	8.7	174	10.6	4 207	1.4	167	10.8	467	2.0
Schuylkill	192	10.5	3 851	4.9	290	8.2	10 242	2.0	443	4.5	1 322	2.8
Snyder	370	7.9	7 940	8.2	435	7.2	15 652	3.3	512	4.6	736	9.0
Somerset	409	8.3	3 267	4.0	684	4.0	11 025	2.6	714	4.8	1 568	2.2
Sullivan	59	13.1	764	4.3	86	8.3	2 147	4.9	73	9.3	84	4.0
Susquehanna	235	11.3	3 780	7.0	481	5.1	12 514	2.8	298	8.2	390	9.8
Tioga	253	10.0	2 892	5.5	602	4.4	12 864	2.7	407	7.5	624	5.8
Union	216	7.2	3 983	4.9	302	5.8	10 003	2.8	362	4.7	733	3.4
Venango	92	22.2	215	15.3	217	10.2	1 091	18.0	242	7.9	190	9.8
Warren	148	15.3	627	27.0	287	7.0	3 592	3.1	215	10.0	231	4.5
Washington	383	10.7	1 201	11.3	842	5.3	4 124	7.8	566	6.8	824	5.1
Wayne	230	11.4	2 012	10.7	418	5.9	7 380	4.5	181	9.7	149	6.1
Westmoreland	472	9.2	1 851	7.4	741	5.1	5 467	3.8	712	5.5	1 312	3.8
Wyoming	105	16.2	1 117	8.5	193	9.6	2 746	6.0	197	6.8	344	3.7
York	624	6.0	13 160	2.6	1 019	3.7	24 842	1.0	1 317	2.6	3 611	3.6

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)
Pennsylvania	**32 207**	**1.2**	**108 455**	**.8**	**27 229**	**1.3**	**66 144**	**.9**	**43 287**	**1.1**	**107 247**	**.7**
Adams	753	3.5	3 179	3.4	618	5.5	4 996	4.4	937	1.5	3 374	2.2
Allegheny	156	15.5	197	11.4	132	13.1	149	10.5	314	4.3	678	5.7
Armstrong	513	4.8	994	5.7	366	7.3	550	4.3	640	1.9	1 494	4.0
Beaver	339	6.2	352	6.1	258	8.3	175	7.9	505	1.6	636	6.1

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 10
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	663	4.9	2 278	3.0	470	5.9	1 332	9.6	914	1.9	2 077	3.6
Berks	1 205	3.0	6 324	2.5	1 138	3.3	3 635	3.0	1 520	1.4	6 555	1.4
Blair	327	5.7	1 436	3.3	309	6.4	1 031	2.3	398	2.6	1 397	2.5
Bradford	760	4.8	2 337	2.8	629	4.6	877	3.0	1 255	1.4	3 405	2.2
Bucks	438	5.1	2 099	6.7	387	6.0	1 318	3.8	678	1.2	2 687	1.7
Butler	711	4.6	1 508	7.1	564	6.0	561	7.7	964	1.9	1 837	4.3
Cambria	418	4.6	1 184	6.6	320	7.7	767	11.5	500	2.1	962	6.6
Cameron	16	7.8	(D)	(D)	8	9.7	(D)	(D)	23	6.6	14	4.7
Carbon	117	4.8	295	3.5	101	6.3	181	2.8	137	2.8	271	3.2
Centre	584	4.5	2 118	5.3	486	5.4	1 456	7.9	724	1.7	1 730	4.2
Chester	879	3.7	6 387	2.9	819	3.4	3 610	1.7	1 261	2.3	6 823	.9
Clarion	347	6.7	723	5.4	232	11.3	276	3.7	434	3.0	710	4.2
Clearfield	241	7.4	393	7.9	177	11.0	129	8.1	331	2.7	407	6.1
Clinton	148	7.1	738	6.0	146	11.2	585	7.3	220	4.3	636	6.0
Columbia	483	3.3	2 143	5.8	461	4.9	1 353	4.0	581	1.7	1 549	4.8
Crawford	780	3.7	2 385	3.2	700	5.0	769	3.7	1 077	2.1	1 990	3.1
Cumberland	789	2.9	2 381	3.4	638	4.9	1 843	8.8	929	1.6	2 286	2.7
Dauphin	471	3.9	1 429	4.3	458	4.3	1 173	6.5	568	1.7	1 169	2.3
Delaware	41	3.2	83	1.1	36	3.3	66	.9	64	2.6	311	.3
Elk	98	6.3	116	12.8	39	11.1	32	11.8	138	3.7	184	9.8
Erie	806	4.5	2 734	4.9	791	4.5	2 375	3.8	1 136	1.7	2 299	2.9
Fayette	511	6.4	846	6.7	277	10.4	272	7.3	733	3.0	1 235	4.6
Forest	24	6.0	29	4.7	17	6.4	11	7.9	33	5.1	41	4.2
Franklin	1 014	3.3	4 894	2.1	943	3.0	4 101	1.5	1 250	1.3	3 749	1.6
Fulton	313	7.6	848	5.3	228	11.3	245	5.0	438	1.1	788	6.6
Greene	250	11.4	221	14.8	109	21.7	84	15.1	624	1.9	507	14.5
Huntingdon	411	5.7	1 606	5.2	324	7.3	1 088	1.8	555	1.4	1 282	3.2
Indiana	554	4.7	1 687	7.6	460	6.1	851	3.7	734	1.6	1 980	3.0
Jefferson	288	6.8	678	6.6	232	9.3	208	24.2	396	3.0	717	6.6
Juniata	428	5.0	917	7.5	400	6.5	623	6.1	516	2.6	1 138	3.6
Lackawanna	99	19.5	295	6.5	66	23.7	425	9.8	228	4.7	478	9.4
Lancaster	3 597	1.7	9 673	1.8	3 622	1.7	6 368	1.8	4 303	1.3	10 494	1.2
Lawrence	496	4.6	1 182	4.0	411	6.7	541	4.9	624	1.7	1 101	3.8
Lebanon	680	3.4	2 240	2.5	654	3.6	1 560	2.5	848	1.9	2 615	1.2
Lehigh	374	4.3	3 179	4.3	342	5.6	1 542	4.0	413	2.6	2 025	3.2
Luzerne	257	9.6	741	8.6	204	12.0	556	9.3	366	2.2	690	8.4
Lycoming	649	3.9	2 002	6.2	519	6.0	813	4.3	762	2.2	1 573	3.0
McKean	92	21.0	64	19.4	23	39.2	17	47.6	187	7.5	204	11.9
Mercer	834	4.2	1 994	5.1	689	5.4	745	5.7	1 017	2.2	1 969	3.8
Mifflin	499	4.5	1 673	4.9	446	4.9	742	3.8	592	2.3	1 058	3.9
Monroe	81	11.5	274	5.8	62	11.4	152	6.6	129	5.0	228	6.3
Montgomery	285	7.6	1 146	7.7	222	10.2	487	6.1	428	3.7	1 287	3.9
Montour	180	9.0	747	8.2	160	9.7	317	17.1	247	1.3	582	6.0
Northampton	308	4.6	2 857	3.3	250	6.3	1 403	5.7	391	1.2	1 639	3.9
Northumberland	475	3.8	2 417	4.5	452	4.4	1 789	5.1	561	1.2	1 836	3.5
Perry	447	4.2	1 548	6.3	342	6.3	682	4.2	553	1.5	1 197	4.2
Philadelphia	4	9.0	(D)	(D)	3	–	(D)	(D)	6	8.7	10	.7
Pike	28	3.5	77	2.5	22	3.8	38	1.8	32	3.6	151	.6
Potter	173	10.7	780	4.1	111	14.4	348	1.6	274	3.8	721	5.4
Schuylkill	455	3.9	1 750	3.9	447	4.0	1 565	2.2	554	2.3	1 485	2.5
Snyder	498	5.2	1 163	7.4	458	6.3	630	4.5	640	2.3	1 834	2.9
Somerset	783	4.1	2 640	3.8	572	6.1	1 157	3.8	945	1.7	2 015	2.0
Sullivan	87	5.5	181	3.9	55	10.7	55	6.4	132	3.2	276	2.8
Susquehanna	402	7.1	820	4.9	279	8.3	368	22.1	701	2.0	1 434	3.6
Tioga	427	6.8	1 422	6.1	341	8.0	410	5.2	780	2.2	1 696	3.4
Union	358	4.8	1 135	4.0	344	5.3	570	4.6	436	2.1	1 010	3.8
Venango	259	6.2	446	10.0	193	10.1	219	5.2	341	2.6	329	7.3
Warren	248	8.9	428	5.4	173	12.8	166	4.7	372	2.8	572	5.8
Washington	666	7.0	1 238	19.6	450	8.4	527	7.4	1 338	1.7	1 857	3.5
Wayne	270	9.2	561	8.6	166	10.9	160	7.2	571	2.9	959	3.4
Westmoreland	746	5.6	1 614	6.4	556	6.4	690	4.9	1 074	2.4	2 078	4.6
Wyoming	226	6.5	645	7.4	165	8.4	273	4.7	283	3.7	515	5.8
York	1 348	2.7	5 841	2.5	1 157	3.3	4 076	3.2	1 632	1.4	4 412	1.9

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)
Pennsylvania	**34 830**	**1.2**	**82 113**	**.5**	**14 447**	**1.5**	**352 456**	**.2**	**3 240**	**3.4**	**25 590**	**1.7**
Adams	758	3.8	1 903	1.6	388	7.8	20 279	1.8	111	18.6	1 405	7.4
Allegheny	203	10.9	232	5.8	69	9.8	2 917	.5	12	4.0	50	1.5
Armstrong	500	5.6	1 278	1.3	190	11.2	(D)	(D)	57	31.5	(D)	(D)
Beaver	358	6.6	439	10.5	77	18.2	901	1.3	20	38.9	88	13.3

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 11
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	709	4.7	1 436	3.3	261	10.8	2 934	1.1	66	26.6	360	17.3
Berks	1 255	3.0	7 004	.7	585	5.8	42 743	.5	139	17.2	1 075	6.8
Blair	376	2.0	1 080	2.6	205	9.1	2 845	5.3	46	30.9	229	6.5
Bradford	1 088	2.9	2 730	2.0	498	5.9	5 707	2.8	139	14.9	1 085	3.0
Bucks	487	5.0	1 594	2.2	227	9.6	12 642	.2	77	20.2	1 975	1.0
Butler	779	3.9	736	4.2	240	10.4	2 829	1.5	66	25.1	166	8.6
Cambria	339	8.4	428	10.6	148	13.2	1 855	4.9	16	69.6	23	56.4
Cameron	12	8.3	6	2.6	4	13.7	(D)	(D)	–	–	–	–
Carbon	115	5.2	103	5.6	29	12.2	762	1.6	14	27.2	3	29.7
Centre	616	4.0	857	5.2	251	9.1	3 106	2.3	82	21.8	302	45.3
Chester	1 109	2.8	15 008	.4	644	5.3	59 988	.4	211	8.5	5 954	1.2
Clarion	318	7.5	350	10.0	105	16.5	1 028	.9	16	39.4	36	4.6
Clearfield	206	8.6	208	5.7	69	17.2	499	3.0	14	25.6	35	4.1
Clinton	196	6.1	272	5.3	49	20.4	1 350	.2	35	38.4	71	58.5
Columbia	461	4.7	695	3.1	151	12.7	3 549	2.5	16	2.4	78	3.7
Crawford	867	3.9	1 430	3.2	361	8.0	2 496	2.3	71	19.0	321	19.8
Cumberland	720	4.5	1 399	4.1	312	8.4	5 573	2.4	77	27.0	854	36.6
Dauphin	397	5.4	793	2.1	220	9.3	3 090	2.9	44	30.4	84	23.3
Delaware	51	2.8	369	1.5	23	2.3	1 584	.1	7	–	(D)	(D)
Elk	90	7.5	72	6.3	21	20.7	295	19.4	3	54.3	2	41.5
Erie	920	3.7	1 198	7.1	539	6.3	9 795	1.2	181	15.6	876	12.4
Fayette	524	6.4	391	6.3	167	15.2	1 458	3.1	22	44.0	39	11.1
Forest	24	5.5	20	3.2	4	7.8	(D)	(D)	3	15.0	2	15.0
Franklin	1 100	2.5	2 497	1.3	522	4.8	13 153	1.1	78	13.8	1 058	1.0
Fulton	312	8.2	403	3.1	119	15.9	1 416	18.4	27	.1	39	(L)
Greene	300	9.7	124	12.4	122	19.4	368	3.5	54	33.7	88	37.5
Huntingdon	458	5.0	899	3.2	187	9.8	2 708	1.4	28	24.4	106	1.4
Indiana	571	4.7	811	3.5	268	10.0	7 402	1.7	48	24.5	185	37.6
Jefferson	323	5.6	473	2.8	159	14.8	2 424	3.7	16	1.6	(D)	(D)
Juniata	481	4.0	1 148	2.0	154	8.4	1 617	5.9	25	37.0	182	25.0
Lackawanna	199	8.2	219	8.1	42	31.1	703	1.0	16	51.7	543	.4
Lancaster	3 929	1.6	10 674	.8	1 921	3.1	27 365	.9	329	9.1	2 419	3.9
Lawrence	508	4.7	550	3.6	166	14.3	1 444	1.6	32	24.1	139	2.7
Lebanon	802	1.9	2 354	1.6	324	7.1	6 037	.6	89	17.0	459	5.8
Lehigh	370	5.0	886	1.6	160	13.7	4 705	1.7	12	2.7	125	.1
Luzerne	238	12.4	303	8.4	80	20.0	2 118	1.2	10	4.4	72	1.0
Lycoming	691	3.0	809	3.1	221	11.0	2 919	1.4	50	23.8	141	13.9
McKean	143	13.1	79	20.2	35	36.1	203	1.4	30	37.6	11	22.7
Mercer	880	3.8	1 030	4.3	260	11.2	3 680	3.1	46	33.0	193	37.1
Mifflin	483	4.3	868	2.6	185	9.8	2 146	3.1	60	21.9	130	4.8
Monroe	103	7.3	113	5.2	26	23.7	413	2.7	2	10.8	(D)	(D)
Montgomery	298	7.6	689	4.1	158	13.8	4 909	1.0	40	34.4	173	12.5
Montour	161	8.3	279	3.2	45	16.8	747	.2	7	3.7	56	.1
Northampton	289	6.8	666	3.2	110	10.7	2 432	3.7	16	23.1	155	5.2
Northumberland	410	5.8	883	3.1	174	11.1	4 108	1.0	38	27.1	111	1.5
Perry	464	4.8	729	2.8	148	12.1	1 564	3.9	20	29.9	42	36.9
Philadelphia	4	9.0	4	.8	3	–	60	–	–	–	–	–
Pike	21	4.3	34	1.6	10	4.2	(D)	(D)	4	10.5	5	8.0
Potter	230	7.4	482	3.9	124	15.0	1 522	3.3	33	34.2	116	20.5
Schuylkill	432	4.7	979	2.5	179	10.3	3 953	2.7	27	36.0	111	5.5
Snyder	485	5.1	942	3.8	193	13.3	1 726	5.4	40	32.2	674	4.6
Somerset	789	3.9	1 376	2.1	342	8.0	3 964	2.0	66	23.6	113	9.5
Sullivan	111	4.8	193	3.2	30	11.3	353	.4	4	65.2	15	19.2
Susquehanna	588	3.7	1 144	3.7	230	9.5	2 007	4.6	28	21.3	92	7.1
Tioga	649	4.2	1 234	3.7	281	9.4	2 049	.9	48	22.7	91	3.1
Union	357	4.2	623	3.7	146	11.3	947	13.0	35	29.3	78	8.6
Venango	231	9.8	182	10.0	52	22.2	347	3.8	25	45.5	43	46.1
Warren	300	6.8	400	5.7	71	20.9	880	.5	28	36.2	141	4.6
Washington	859	4.8	583	4.4	292	10.3	2 194	2.6	63	28.5	104	41.3
Wayne	513	3.9	829	4.6	168	10.7	1 132	9.0	21	21.8	49	7.6
Westmoreland	792	5.1	909	3.4	314	10.5	5 287	1.4	52	21.8	124	5.6
Wyoming	256	5.5	412	3.4	95	14.2	1 533	6.2	28	33.5	156	4.8
York	1 222	3.3	2 268	1.7	494	6.7	8 291	2.4	120	19.3	1 358	1.4

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)
Pennsylvania	**39 818**	**1.1**	**183 367**	**.8**	**16 010**	**1.5**	**34 429**	**1.0**	**17 895**	**1.4**	**144 542**	**.9**
Adams	879	2.2	5 245	3.5	398	7.7	933	4.0	391	6.7	5 009	3.8
Allegheny	260	8.7	708	11.1	54	31.4	60	26.7	44	23.3	213	4.8
Armstrong	597	3.6	3 990	2.9	189	13.0	344	15.8	199	12.9	1 995	4.2
Beaver	453	3.9	900	5.9	58	23.0	71	12.3	142	15.1	583	11.1

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 12
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	808	3.4	3 350	3.4	355	8.8	608	10.1	365	8.7	2 902	3.8
Berks	1 422	2.2	11 511	1.6	681	5.5	2 419	2.5	720	4.9	7 694	2.2
Blair	371	2.9	2 494	2.3	194	7.9	582	2.8	203	8.2	2 005	4.0
Bradford	1 177	2.3	5 818	2.0	396	8.0	562	8.8	700	4.3	4 954	3.3
Bucks	630	2.3	3 619	3.1	196	12.1	415	7.9	231	9.4	2 291	4.0
Butler	869	3.3	2 436	5.3	292	10.3	197	10.7	325	9.4	1 451	9.5
Cambria	437	5.1	1 977	18.8	89	21.3	97	11.2	159	13.3	821	20.2
Cameron	20	6.7	32	7.0	1	42.0	(D)	(D)	6	8.8	(D)	(D)
Carbon	122	4.5	337	5.3	30	13.5	20	9.3	39	9.3	199	14.5
Centre	662	3.2	3 469	7.5	287	8.9	438	4.4	304	8.5	2 602	7.6
Chester	1 188	2.6	12 160	1.6	622	5.4	3 962	1.8	576	5.1	8 831	2.3
Clarion	397	3.9	1 100	5.2	83	23.1	105	5.7	124	14.7	573	6.9
Clearfield	279	5.8	688	6.5	57	23.5	34	14.2	97	15.5	414	12.8
Clinton	210	5.8	1 034	7.3	93	17.3	114	5.4	133	12.2	1 110	5.9
Columbia	564	2.4	2 228	2.6	207	11.8	362	7.7	254	9.9	1 722	10.0
Crawford	953	3.1	3 281	2.9	340	8.6	535	10.3	520	6.7	2 985	5.6
Cumberland	852	2.8	4 296	3.5	409	7.2	766	5.7	429	6.5	3 426	4.2
Dauphin	498	4.0	2 085	5.0	267	9.3	683	5.6	219	9.0	1 905	3.3
Delaware	57	2.7	274	1.4	9	6.7	(D)	(D)	16	–	157	–
Elk	130	4.5	245	11.0	21	24.7	11	30.2	42	16.3	199	17.4
Erie	1 038	2.6	4 281	2.9	375	8.9	788	8.4	500	7.2	3 137	6.2
Fayette	668	4.1	1 501	7.0	202	14.7	184	10.8	171	15.0	805	13.6
Forest	31	5.2	66	3.3	8	7.9	(D)	(D)	6	7.7	44	7.4
Franklin	1 174	2.1	8 264	1.6	706	4.4	2 112	2.4	693	5.1	6 502	3.6
Fulton	360	4.9	1 570	8.4	164	15.1	231	10.4	157	14.0	712	4.2
Greene	503	4.9	743	10.3	91	25.1	69	29.4	127	18.2	431	17.4
Huntingdon	499	3.6	2 478	3.5	253	9.6	415	6.1	239	10.5	1 938	5.2
Indiana	659	3.5	2 036	3.9	159	13.8	184	18.8	223	10.7	1 896	6.8
Jefferson	364	4.6	865	8.3	128	18.7	(D)	(D)	113	13.7	596	4.6
Juniata	525	1.9	2 355	4.5	272	11.0	323	8.7	253	9.4	2 097	6.3
Lackawanna	195	8.9	698	10.0	21	39.4	74	6.7	58	21.4	367	12.6
Lancaster	4 116	1.4	22 890	1.9	2 671	2.5	7 046	1.8	2 297	2.6	23 886	2.1
Lawrence	581	3.2	1 937	7.1	178	13.9	204	10.5	172	13.8	836	11.3
Lebanon	813	2.4	4 901	2.4	576	4.6	1 400	4.3	476	5.5	4 793	3.7
Lehigh	397	3.3	2 414	7.0	120	18.4	253	6.8	165	13.5	2 099	5.5
Luzerne	339	3.4	1 052	8.1	87	25.7	131	19.1	90	25.4	570	17.3
Lycoming	714	2.7	2 242	4.2	251	10.7	414	11.4	261	10.3	2 043	10.6
McKean	148	11.3	299	12.0	26	36.1	22	38.5	83	21.0	243	29.5
Mercer	955	2.9	3 017	4.4	296	11.2	487	10.4	385	9.4	1 856	7.0
Mifflin	571	2.9	2 262	3.7	304	8.5	456	7.4	296	8.0	1 728	7.9
Monroe	123	5.6	346	5.4	8	37.6	(D)	(D)	20	19.4	186	11.2
Montgomery	357	6.3	1 732	5.1	111	17.7	257	13.6	136	14.7	967	14.6
Montour	239	2.5	809	4.4	101	19.2	143	17.4	139	14.5	822	11.8
Northampton	360	3.3	1 804	4.9	116	17.2	258	4.4	130	14.6	1 283	11.9
Northumberland	536	2.4	2 470	3.1	201	10.3	589	20.1	277	8.8	2 814	3.1
Perry	499	3.5	2 132	4.6	204	9.8	304	6.0	212	9.5	1 725	5.6
Philadelphia	5	7.2	5	.7	–	–	–	–	3	–	(D)	(D)
Pike	31	3.7	89	3.1	10	3.0	19	.1	14	5.2	117	1.3
Potter	225	8.0	1 202	4.7	83	17.1	184	6.2	139	13.2	1 317	11.1
Schuylkill	513	3.7	2 362	4.1	263	8.9	401	10.7	199	8.1	1 839	1.9
Snyder	614	2.7	2 202	3.7	240	12.5	350	8.7	317	9.5	2 123	8.0
Somerset	871	3.0	3 615	3.4	369	7.8	606	10.0	403	7.5	2 528	4.8
Sullivan	126	4.8	449	3.1	24	19.1	28	6.7	47	12.0	356	8.6
Susquehanna	592	3.9	2 511	2.5	130	13.8	183	14.1	290	8.5	1 650	8.9
Tioga	716	3.3	2 993	5.0	252	10.0	299	6.0	429	6.5	2 871	4.4
Union	427	1.7	1 772	3.4	212	9.0	335	6.3	211	9.2	2 056	7.4
Venango	275	8.0	584	14.5	86	21.2	116	26.3	98	17.2	335	12.8
Warren	330	5.1	944	5.0	78	20.0	88	7.4	164	13.6	822	9.7
Washington	1 240	2.5	2 902	6.4	188	15.3	175	17.3	385	9.4	1 711	10.7
Wayne	524	4.0	1 810	5.9	61	19.7	131	11.5	221	11.2	1 307	14.8
Westmoreland	964	3.9	3 166	4.2	275	11.0	282	13.6	332	9.8	1 937	9.1
Wyoming	263	4.9	1 076	5.3	81	19.2	116	15.8	85	16.4	481	7.8
York	1 503	2.0	7 243	2.9	701	5.8	1 280	8.8	641	5.9	4 650	3.8

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)
Pennsylvania	**14 464**	**1.6**	**76 928**	**1.2**	**40 766**	**1.1**	**96 902**	**1.1**	**41 382**	**1.1**	**361 780**	**.4**
Adams	342	8.5	4 796	3.0	858	2.9	2 192	3.3	866	2.4	8 675	1.0
Allegheny	44	23.5	77	22.8	310	4.3	705	17.3	308	5.0	2 021	1.8
Armstrong	186	9.8	372	8.4	647	1.8	1 542	4.0	629	2.4	17 461	.9
Beaver	93	14.7	290	28.3	486	2.4	772	7.1	484	2.4	1 651	5.5

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 13
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	342	9.5	1 578	13.3	818	3.3	1 292	3.7	820	3.4	5 236	4.4
Berks	693	5.1	4 740	3.8	1 335	2.2	4 591	3.1	1 506	1.5	21 664	1.1
Blair	154	11.2	834	5.4	378	2.7	882	8.1	391	2.8	3 766	1.3
Bradford	472	5.4	985	8.3	1 266	1.6	2 624	2.7	1 245	2.0	10 201	1.2
Bucks	226	8.9	1 617	2.9	607	2.7	2 277	5.8	632	2.9	8 636	.8
Butler	256	10.1	400	7.3	991	1.4	1 851	3.8	915	2.6	2 817	3.6
Cambria	124	14.6	330	3.3	504	1.9	790	5.3	465	3.7	1 754	5.0
Cameron	4	14.9	(D)	(D)	25	6.5	30	6.6	15	7.8	27	6.4
Carbon	47	9.9	78	7.0	134	3.2	294	10.4	133	3.8	670	3.6
Centre	277	8.7	1 487	9.8	673	2.9	1 358	5.8	710	2.1	4 271	4.6
Chester	480	6.1	5 562	3.7	1 154	2.5	6 256	4.5	1 265	1.8	49 481	.3
Clarion	120	16.7	207	4.9	409	3.7	676	6.4	404	4.1	1 559	2.5
Clearfield	91	17.0	83	10.8	320	3.2	423	6.0	292	5.0	1 060	5.3
Clinton	76	18.9	340	10.6	229	3.2	662	4.2	205	5.9	1 272	9.6
Columbia	194	9.8	973	5.4	576	1.7	1 166	5.1	539	3.2	3 419	3.4
Crawford	328	8.0	593	15.6	1 095	1.8	2 296	5.8	1 004	2.7	5 744	6.9
Cumberland	289	10.0	2 032	12.7	813	3.3	1 856	3.1	886	2.4	6 814	1.4
Dauphin	199	9.4	1 138	6.6	500	3.6	1 732	7.5	507	3.6	4 004	1.5
Delaware	10	7.4	99	1.6	58	2.8	184	2.8	67	2.7	1 626	.1
Elk	29	17.6	26	20.5	145	2.4	202	4.7	115	6.1	363	4.2
Erie	332	8.2	1 200	4.1	1 123	1.9	2 767	3.8	1 008	3.0	6 613	3.3
Fayette	167	14.1	307	10.0	736	2.7	965	6.0	675	3.9	2 943	4.0
Forest	6	9.0	7	5.4	31	5.3	38	4.7	33	5.2	65	3.6
Franklin	531	5.2	4 282	3.0	1 091	2.3	2 783	2.6	1 236	1.5	15 072	1.4
Fulton	86	10.9	281	2.1	392	3.4	801	6.4	405	3.7	1 817	3.2
Greene	115	19.6	149	27.2	623	1.7	1 036	5.4	510	5.1	910	9.9
Huntingdon	201	9.5	908	10.2	494	2.9	1 044	5.6	512	3.6	4 149	3.1
Indiana	200	11.2	600	8.5	723	1.8	1 441	4.3	682	2.8	5 260	2.4
Jefferson	99	19.8	178	41.3	400	2.3	582	14.3	362	4.7	1 250	3.5
Juniata	193	11.9	711	14.6	503	2.9	678	4.6	520	2.6	4 360	2.3
Lackawanna	67	18.6	230	7.2	227	4.0	411	10.1	228	4.7	1 264	5.8
Lancaster	1 847	3.3	14 566	2.7	3 584	1.7	11 655	2.0	4 420	1.2	50 271	.7
Lawrence	202	11.4	504	9.6	578	2.9	1 048	4.6	557	4.1	2 206	3.6
Lebanon	398	5.3	3 058	2.6	780	2.2	2 729	2.4	847	1.6	10 497	2.1
Lehigh	180	11.8	1 784	5.5	377	4.2	1 414	4.4	395	4.0	4 435	1.9
Luzerne	82	23.0	334	16.4	365	2.2	709	8.9	335	3.8	1 307	4.7
Lycoming	281	9.4	700	6.0	730	2.8	1 620	5.5	735	2.6	2 966	3.2
McKean	15	60.1	50	10.2	209	1.7	373	9.7	198	4.2	435	10.1
Mercer	265	9.7	766	9.1	992	2.4	1 489	4.2	971	2.8	5 286	2.7
Mifflin	171	9.8	747	8.6	554	2.9	1 006	4.8	595	2.1	7 047	1.0
Monroe	41	18.7	82	5.6	140	4.3	419	9.6	133	5.0	378	3.2
Montgomery	145	14.3	545	6.4	412	3.9	1 516	9.0	429	2.9	3 385	1.9
Montour	119	12.9	384	9.6	225	6.0	305	6.2	220	5.1	1 005	4.3
Northampton	185	9.4	1 690	5.4	326	4.1	1 084	5.6	369	2.4	3 141	2.7
Northumberland	231	10.0	1 587	6.5	509	3.3	936	4.7	505	3.3	5 202	1.6
Perry	141	11.7	1 063	6.7	525	2.8	1 252	16.2	512	3.1	3 427	1.8
Philadelphia	1	–	(D)	(D)	5	7.2	18	.8	4	9.0	57	.7
Pike	3	9.9	(D)	(D)	35	3.6	82	2.6	34	3.5	469	1.2
Potter	92	18.3	243	13.7	265	5.3	803	7.1	235	6.8	1 920	2.5
Schuylkill	236	10.3	1 005	5.6	496	4.4	981	5.5	527	3.1	3 768	6.0
Snyder	254	9.9	903	5.8	609	3.2	965	6.7	638	2.3	4 261	6.0
Somerset	345	7.2	930	11.7	928	1.9	1 709	4.4	914	2.5	5 853	2.5
Sullivan	38	13.3	71	3.2	136	2.7	254	5.9	120	3.7	794	7.0
Susquehanna	213	10.1	619	9.8	668	2.6	1 349	4.2	654	2.9	4 088	2.8
Tioga	266	9.6	674	15.9	784	2.4	2 009	3.7	769	2.3	4 575	3.3
Union	142	12.1	767	5.4	415	3.2	845	7.1	432	2.2	2 734	4.2
Venango	83	20.4	85	7.0	349	1.2	540	9.0	325	3.8	694	7.7
Warren	85	17.3	116	6.0	375	2.4	712	7.5	352	4.3	1 242	5.4
Washington	190	14.5	327	10.1	1 297	2.1	1 889	4.5	1 231	2.5	3 299	2.9
Wayne	130	13.0	398	4.5	596	1.4	1 575	6.6	543	3.4	2 782	7.1
Westmoreland	265	12.1	575	8.7	1 081	2.1	2 296	7.0	965	3.2	4 843	2.6
Wyoming	102	12.1	204	3.3	296	1.4	690	6.7	246	5.3	1 590	5.0
York	643	6.1	4 639	4.8	1 451	2.3	3 430	3.9	1 598	1.6	9 928	1.5

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)
Pennsylvania	**44 866**	**1.1**	**758 341**	**.6**	**42 390**	**1.1**	**5 021 773**	**.8**	**40 090**	**1.1**	**3 861 435**	**.7**
Adams	956	1.1	16 559	3.1	896	.8	133 583	.6	849	.8	108 565	.6
Allegheny	338	1.3	1 318	19.6	309	1.2	19 064	1.9	269	1.4	11 413	2.2
Armstrong	667	1.2	2 728	15.4	645	1.2	78 452	1.2	614	1.2	56 080	1.2
Beaver	510	1.2	2 383	12.8	488	1.2	34 855	1.3	444	1.3	24 907	1.2

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 14
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	938	1.3	11 617	5.1	885	1.1	119 437	.8	852	1.1	90 519	.8
Berks	1 558	1.1	65 815	1.3	1 448	.9	189 706	.6	1 395	.9	166 884	.6
Blair	414	.9	11 321	7.6	394	1.0	56 633	.7	379	1.0	48 387	.7
Bradford	1 334	.8	24 780	2.5	1 251	1.0	191 128	.8	1 170	1.0	139 163	.7
Bucks	680	1.2	12 769	3.7	630	1.1	63 970	1.1	566	1.1	56 518	1.1
Butler	1 012	1.1	4 024	13.3	955	1.2	88 161	1.1	896	1.2	65 547	1.2
Cambria	517	1.5	2 786	21.8	492	1.2	50 393	1.1	470	1.3	37 047	1.1
Cameron	25	6.5	(D)	(D)	25	1.7	(D)	(D)	24	2.4	(D)	(D)
Carbon	146	2.1	1 028	7.5	141	1.2	13 938	1.9	137	1.3	10 632	1.8
Centre	735	1.4	9 177	8.5	706	1.2	96 013	.9	666	1.2	77 049	.9
Chester	1 367	1.2	63 101	1.5	1 226	1.1	136 827	.8	1 110	1.1	114 158	.7
Clarion	445	1.6	1 572	16.5	429	1.6	60 784	1.5	403	1.6	40 281	1.5
Clearfield	347	1.1	1 556	18.2	336	1.0	35 591	1.3	321	1.1	25 538	1.5
Clinton	244	1.8	3 150	13.0	232	1.8	27 319	1.7	216	2.0	23 026	1.5
Columbia	598	1.1	4 510	11.1	587	1.0	74 953	.8	545	1.0	59 271	.8
Crawford	1 121	1.4	11 324	5.6	1 085	1.4	137 617	1.1	1 025	1.4	95 416	1.1
Cumberland	940	1.4	17 927	2.4	895	1.1	123 076	.9	852	1.1	98 815	.8
Dauphin	578	1.0	8 447	6.3	543	.9	72 342	.8	516	1.0	60 581	.8
Delaware	68	2.7	1 591	1.0	62	1.3	2 670	1.5	54	1.6	1 983	1.9
Elk	145	2.4	(D)	(D)	141	1.7	10 583	2.5	135	1.9	6 219	2.8
Erie	1 166	1.2	16 332	4.0	1 120	1.3	112 806	1.1	1 068	1.3	79 966	1.0
Fayette	767	2.1	2 340	19.7	745	2.1	71 813	2.4	682	2.2	46 608	2.2
Forest	36	5.0	(D)	(D)	32	2.3	2 405	3.2	31	2.6	1 649	3.8
Franklin	1 282	.8	42 979	1.8	1 219	.8	190 892	.6	1 156	.8	162 103	.5
Fulton	438	1.1	3 786	10.8	413	1.1	51 887	1.1	399	1.2	36 654	1.0
Greene	632	1.3	(D)	(D)	590	1.3	62 927	1.8	554	1.3	28 538	1.6
Huntingdon	557	1.4	5 598	7.1	534	1.4	77 306	1.1	508	1.4	58 887	1.0
Indiana	747	1.3	7 577	4.9	730	1.2	92 659	1.1	692	1.2	67 438	1.1
Jefferson	410	1.6	3 077	12.8	396	1.3	51 857	1.5	381	1.3	35 387	1.4
Juniata	539	1.0	11 614	5.3	493	1.0	56 692	1.0	468	1.0	43 560	1.0
Lackawanna	239	1.5	3 315	19.2	229	1.5	25 709	1.4	221	1.6	17 058	1.5
Lancaster	4 490	1.1	165 677	1.2	4 141	1.1	334 362	.7	3 997	1.1	291 340	.7
Lawrence	625	1.7	6 157	9.0	597	1.7	62 447	1.6	564	1.7	46 891	1.5
Lebanon	891	.6	31 536	2.4	815	.6	90 276	.4	756	.6	78 347	.4
Lehigh	425	1.4	6 685	7.4	399	1.0	70 093	.7	377	1.1	63 292	.7
Luzerne	375	1.2	1 414	26.0	369	1.1	33 859	1.2	346	1.2	24 334	1.2
Lycoming	801	1.0	6 348	9.9	782	1.0	87 508	.9	740	1.0	66 258	.9
McKean	211	1.7	(D)	(D)	202	1.5	18 387	1.9	189	1.6	11 144	1.9
Mercer	1 044	1.8	8 919	7.8	1 006	1.3	110 460	1.0	964	1.3	81 378	1.0
Mifflin	618	1.2	11 795	4.4	581	1.1	57 001	1.0	549	1.2	45 115	1.0
Monroe	147	2.5	620	21.2	137	1.9	14 532	2.2	122	2.1	10 781	2.3
Montgomery	461	1.0	2 884	14.7	422	1.0	35 218	1.1	386	1.1	28 738	1.1
Montour	248	1.3	2 591	18.2	239	1.2	32 435	1.4	226	1.3	26 015	1.6
Northampton	392	1.2	4 655	10.6	368	1.1	72 146	.7	351	1.2	65 992	.7
Northumberland	562	1.2	7 408	4.6	533	.8	89 558	.5	506	.8	75 530	.6
Perry	562	1.1	7 165	5.4	535	1.0	74 222	.9	515	1.1	57 618	.9
Philadelphia	6	8.7	157	7.0	6	2.4	(D)	(D)	6	2.4	(D)	(D)
Pike	36	3.5	(D)	(D)	34	1.4	2 145	3.5	31	2.0	1 160	2.8
Potter	293	1.3	2 637	18.3	267	1.1	46 159	1.1	251	1.1	30 602	1.1
Schuylkill	579	1.1	6 872	7.8	550	.9	69 221	.8	527	.9	55 867	.7
Snyder	665	1.6	12 370	6.4	618	1.4	66 000	1.2	585	1.4	54 801	1.2
Somerset	974	1.1	13 667	5.2	932	1.1	134 831	.8	889	1.1	99 419	.7
Sullivan	142	1.8	2 189	7.7	137	1.1	16 079	1.2	129	1.3	12 681	1.2
Susquehanna	711	1.7	8 431	5.3	684	1.6	96 009	1.5	647	1.7	62 402	1.4
Tioga	823	1.1	9 707	5.6	782	1.3	129 797	1.0	728	1.2	88 692	.9
Union	451	1.1	9 359	6.0	432	1.1	52 946	.9	420	1.1	46 038	1.0
Venango	349	1.2	590	46.4	343	1.0	31 344	1.4	324	1.1	19 298	1.4
Warren	386	1.6	2 962	11.0	361	1.7	35 158	1.7	345	1.8	22 556	1.6
Washington	1 371	1.3	2 900	20.9	1 291	1.2	129 438	1.4	1 206	1.3	74 218	1.3
Wayne	601	1.4	4 346	10.9	580	1.4	61 594	1.3	568	1.4	42 091	1.4
Westmoreland	1 139	1.4	6 162	9.6	1 080	1.3	107 325	1.2	1 019	1.3	73 412	1.1
Wyoming	300	1.4	15 234	2.6	282	1.1	36 186	1.0	275	1.1	25 123	1.1
York	1 692	.8	19 977	3.2	1 583	.7	209 083	.5	1 484	.7	183 362	.5

Geographic area	Irrigated land				Livestock and poultry							
					Cattle and calves inventory				Beef cows inventory			
	Farms		Acres		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Pennsylvania	**2 121**	**.9**	**23 096**	**.6**	**27 984**	**1.1**	**1 699 820**	**.7**	**11 461**	**1.3**	**157 773**	**1.3**
Adams	43	2.0	2 222	.5	471	1.0	28 676	.8	222	1.6	4 136	1.4
Allegheny	47	2.9	231	2.0	125	2.6	3 022	3.2	91	3.2	983	4.7
Armstrong	9	7.6	(D)	(D)	457	1.4	16 949	1.3	307	1.6	3 391	2.1
Beaver	25	5.3	106	4.1	299	1.7	9 735	1.5	203	2.1	1 924	2.8

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 15
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	16	4.7	87	2.4	706	1.2	47 382	.9	361	1.7	5 158	1.9
Berks	114	1.9	1 030	4.0	864	1.0	65 257	.5	192	2.1	2 918	1.7
Blair	15	3.6	335	.5	301	1.1	27 926	.5	81	2.9	1 035	4.0
Bradford	26	4.4	196	2.3	979	1.0	104 072	.5	323	1.9	4 753	1.9
Bucks	84	2.4	1 171	1.0	191	1.9	9 961	.9	93	3.0	1 032	2.8
Butler	46	3.0	479	2.0	588	1.4	20 989	1.3	393	1.7	4 491	2.0
Cambria	14	6.1	67	7.7	334	1.6	12 009	1.9	240	1.8	2 646	2.4
Cameron	–	–	–	–	20	3.8	313	2.5	16	5.4	(D)	(D)
Carbon	11	7.8	14	8.4	45	3.4	1 290	3.8	14	7.4	109	10.0
Centre	39	4.1	383	2.2	493	1.4	31 809	1.0	165	2.2	2 657	2.4
Chester	190	1.4	1 353	1.0	677	1.3	50 795	.7	222	2.4	3 627	2.8
Clarion	7	9.0	28	8.6	318	2.0	14 272	1.5	210	2.5	2 582	2.9
Clearfield	20	5.9	125	12.7	220	1.5	7 898	1.2	149	2.1	1 606	2.6
Clinton	22	5.6	610	2.4	161	2.2	11 179	1.2	52	4.9	639	4.4
Columbia	33	4.0	193	1.8	281	1.5	11 836	1.2	143	2.3	1 903	3.2
Crawford	18	7.0	155	13.5	806	1.5	43 096	1.2	302	1.8	3 864	2.4
Cumberland	62	3.3	573	4.7	586	1.2	46 034	.9	144	2.4	2 262	2.1
Dauphin	30	4.0	519	2.2	287	1.4	19 381	1.3	76	3.1	1 643	1.7
Delaware	19	3.6	62	1.1	10	7.8	394	2.8	5	13.4	(D)	(D)
Elk	4	12.8	24	15.3	110	2.3	2 502	2.9	86	2.8	774	4.5
Erie	57	2.8	709	1.3	573	1.6	27 082	1.1	253	2.1	2 622	2.4
Fayette	17	7.9	84	14.7	557	2.4	19 300	2.5	431	2.6	6 516	3.4
Forest	–	–	–	–	18	5.6	727	4.2	14	6.3	150	9.3
Franklin	56	3.1	1 339	1.0	946	.8	93 087	.4	225	1.9	3 939	2.3
Fulton	9	9.1	63	19.9	311	1.4	16 901	1.1	184	1.9	2 960	2.2
Greene	8	8.0	89	19.8	478	1.4	16 896	1.8	420	1.5	8 283	2.2
Huntingdon	13	7.9	109	5.4	421	1.5	31 101	.8	187	2.3	2 622	3.2
Indiana	38	4.0	365	3.5	486	1.5	23 382	1.6	247	2.1	3 072	2.4
Jefferson	13	7.3	51	12.2	304	1.6	12 328	1.5	184	2.1	2 847	2.6
Juniata	20	5.4	80	18.3	345	1.2	20 356	1.1	81	3.0	723	3.5
Lackawanna	12	6.0	40	2.8	134	2.2	5 548	1.7	74	3.4	839	4.1
Lancaster	264	1.6	2 217	1.0	3 033	1.1	237 310	.7	264	1.9	4 373	1.6
Lawrence	13	8.2	126	12.6	417	1.7	18 946	1.4	211	2.3	2 863	3.0
Lebanon	35	3.9	572	3.8	598	.7	48 786	.4	116	2.2	1 693	2.2
Lehigh	44	4.0	322	3.8	98	2.4	3 979	1.8	39	4.5	306	5.4
Luzerne	29	4.6	182	12.1	177	2.0	5 549	2.3	95	3.2	940	5.1
Lycoming	32	4.4	1 023	1.8	496	1.2	25 699	.9	223	2.0	2 922	3.1
McKean	3	15.2	4	11.4	130	2.1	4 106	2.2	83	3.0	911	4.6
Mercer	30	4.0	258	4.3	733	1.5	31 828	1.1	339	1.7	4 146	1.9
Mifflin	24	6.5	110	18.7	475	1.2	27 886	.8	106	2.8	931	3.4
Monroe	5	12.3	22	2.8	51	4.2	1 373	2.6	28	5.4	272	4.9
Montgomery	53	2.8	563	.6	175	1.8	7 779	.9	70	3.6	608	4.7
Montour	10	9.1	36	6.4	141	2.0	6 887	4.5	47	4.4	544	5.2
Northampton	27	4.7	413	2.1	150	2.0	11 205	1.0	41	4.2	696	4.0
Northumberland	40	3.4	341	3.0	294	1.1	16 264	.9	93	2.4	1 140	2.3
Perry	8	7.9	60	1.9	354	1.3	21 192	.7	110	2.5	1 545	3.0
Philadelphia	3	16.7	3	16.7	–	–	–	–	–	–	–	–
Pike	4	7.9	5	6.3	9	5.8	236	1.1	6	8.7	55	4.2
Potter	2	13.8	(D)	(D)	205	1.4	14 426	1.0	89	2.8	1 082	4.1
Schuylkill	45	3.1	660	2.0	236	1.5	12 460	1.4	74	3.1	925	4.0
Snyder	40	4.8	249	8.7	437	1.7	23 907	1.6	84	3.5	1 071	5.9
Somerset	17	5.7	34	4.9	751	1.2	48 243	.7	278	1.9	4 743	2.0
Sullivan	2	14.8	(D)	(D)	107	1.7	7 585	1.4	61	2.9	603	3.8
Susquehanna	13	9.8	100	18.4	528	1.8	41 331	1.1	199	2.6	2 652	3.9
Tioga	11	7.4	379	.3	612	1.4	41 884	.9	251	2.1	3 033	2.6
Union	23	5.8	72	5.2	277	1.3	19 950	.8	51	3.5	471	3.2
Venango	6	4.2	15	1.7	241	1.4	7 369	1.5	169	1.8	1 627	2.7
Warren	4	11.0	(D)	(D)	273	2.0	13 753	1.8	119	3.0	1 039	5.0
Washington	40	3.7	484	1.1	956	1.4	35 323	1.4	754	1.5	12 344	1.8
Wayne	8	10.9	113	17.0	404	1.6	24 225	1.3	167	2.2	2 186	5.2
Westmoreland	52	3.4	263	1.1	701	1.5	27 593	1.1	451	1.9	6 369	2.2
Wyoming	12	8.7	49	12.0	213	1.4	12 105	1.1	93	2.8	1 106	4.0
York	85	2.4	1 182	2.3	810	.9	47 156	.7	360	1.4	5 802	2.4

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)
Pennsylvania	**12 448**	**1.0**	**625 165**	**.5**	**5 097**	**1.2**	**1 074 574**	**.4**	**2 922**	**1.2**	**108 040**	**1.5**
Adams	118	1.2	8 689	.3	110	2.1	26 882	.7	60	3.4	1 730	4.8
Allegheny	19	6.8	372	6.2	25	5.9	546	7.5	32	5.9	964	11.6
Armstrong	102	2.1	4 349	1.1	91	3.1	4 428	3.8	53	4.0	1 228	5.8
Beaver	78	2.6	3 355	1.4	51	4.5	1 212	3.8	47	4.8	1 227	6.4

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 16
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	312	1.2	18 723	.6	108	2.5	10 760	2.1	49	4.4	3 336	4.5
Berks	402	1.0	24 449	.5	206	1.8	63 056	.6	108	2.7	2 409	4.6
Blair	192	1.0	13 963	.4	56	3.6	5 121	1.8	18	6.4	696	9.9
Bradford	590	.9	31 793	.5	93	3.0	3 324	3.9	85	3.0	5 128	6.4
Bucks	58	1.9	4 113	.6	48	4.4	1 709	6.0	60	4.3	2 565	3.5
Butler	147	2.0	5 557	1.3	120	2.9	6 272	2.3	69	3.8	3 124	6.0
Cambria	61	3.1	2 472	1.5	89	3.2	4 953	3.1	13	8.7	844	17.3
Cameron	2	–	(D)	(D)	4	19.7	68	34.4	–	–	–	–
Carbon	12	4.9	401	3.7	21	4.9	1 218	9.0	7	11.4	221	14.1
Centre	275	1.5	13 482	.9	79	2.7	11 148	.7	45	3.9	2 194	4.4
Chester	375	1.2	21 186	.7	74	3.1	11 855	.9	79	3.5	3 421	4.3
Clarion	90	2.6	4 836	1.3	57	4.4	2 733	6.3	20	7.8	658	10.6
Clearfield	63	2.6	2 367	1.6	46	4.1	442	6.2	10	9.4	505	14.0
Clinton	87	2.5	4 141	1.6	28	5.9	2 122	2.5	13	8.1	82	16.8
Columbia	73	2.3	3 675	1.1	71	3.3	8 801	2.9	18	6.8	725	10.8
Crawford	453	1.8	18 534	1.1	118	3.1	3 175	5.2	34	5.3	509	8.2
Cumberland	313	1.2	19 172	.6	134	2.6	23 142	2.1	45	4.5	1 063	7.5
Dauphin	101	1.9	6 419	.9	76	2.6	13 285	.9	40	4.5	4 150	2.7
Delaware	2	–	(D)	(D)	4	12.5	(D)	(D)	5	10.0	142	6.7
Elk	24	5.5	662	4.2	18	7.4	121	9.0	4	16.1	(D)	(D)
Erie	284	1.7	12 566	1.1	50	4.3	1 481	12.8	19	6.8	219	7.7
Fayette	105	3.4	4 113	1.9	101	4.2	2 011	8.3	55	5.2	1 252	8.8
Forest	6	10.0	149	3.7	11	9.1	219	6.5	1	43.3	(D)	(D)
Franklin	563	.8	43 063	.3	171	2.0	72 580	.6	59	3.6	1 373	7.2
Fulton	97	1.8	5 879	1.0	63	3.4	23 984	.8	15	7.4	378	12.0
Greene	47	3.7	1 242	1.5	28	6.1	327	12.0	127	2.8	9 534	4.1
Huntingdon	191	1.6	12 468	.7	60	3.8	8 154	1.4	25	5.7	1 359	4.6
Indiana	210	1.9	7 998	1.2	80	3.5	8 774	1.7	57	4.3	2 253	8.4
Jefferson	93	2.3	3 502	1.3	44	3.8	684	6.6	14	7.8	1 157	24.2
Juniata	184	1.5	8 082	1.1	65	3.3	10 658	1.7	41	4.5	1 229	8.4
Lackawanna	58	2.8	2 080	1.9	15	8.6	425	20.3	11	8.5	267	11.6
Lancaster	2 030	1.1	92 595	.8	693	1.0	375 550	.3	373	1.5	6 909	3.9
Lawrence	178	2.2	7 045	1.1	83	3.9	6 112	4.4	32	6.0	1 466	9.2
Lebanon	309	.8	18 943	.4	129	1.8	74 679	.5	79	2.5	1 855	4.9
Lehigh	29	3.6	1 420	1.7	54	3.3	8 386	1.8	26	5.5	1 163	9.7
Luzerne	47	3.5	1 923	2.4	34	5.0	1 329	2.8	18	8.5	892	11.0
Lycoming	178	1.7	7 986	.9	84	3.2	7 752	1.6	27	5.8	655	9.7
McKean	39	3.8	1 183	2.7	20	6.7	182	8.8	18	7.4	703	12.5
Mercer	323	2.1	12 189	1.0	99	2.8	4 910	3.3	56	3.5	2 358	5.4
Mifflin	327	1.3	12 681	.7	114	2.6	9 391	3.3	79	3.2	1 026	6.1
Monroe	13	6.5	414	2.5	24	6.4	1 192	3.0	4	14.7	102	15.9
Montgomery	46	1.9	2 739	.7	49	3.2	6 722	.9	41	5.0	788	6.3
Montour	62	2.6	2 524	1.7	28	4.9	4 414	3.5	8	9.8	234	5.3
Northampton	68	2.4	4 853	1.1	35	4.7	3 925	5.1	23	6.5	472	8.1
Northumberland	77	1.7	4 027	.7	80	2.2	29 420	.9	27	4.3	1 451	11.6
Perry	133	1.4	7 441	.6	71	3.3	21 117	1.7	41	4.2	1 666	7.8
Philadelphia	–	–	–	–	–	–	–	–	–	–	–	–
Pike	4	–	69	–	1	31.4	(D)	(D)	–	–	–	–
Potter	112	1.7	6 189	1.1	29	5.6	1 349	14.5	16	6.6	948	10.5
Schuylkill	73	1.9	3 350	1.3	77	2.8	23 153	1.1	25	5.6	502	8.2
Snyder	226	1.9	7 995	1.2	127	2.6	43 766	.9	41	4.2	919	8.0
Somerset	406	1.3	20 161	.7	126	2.4	9 312	3.1	43	4.4	2 591	7.7
Sullivan	49	2.9	2 297	1.2	14	8.7	164	15.3	12	7.8	1 685	10.5
Susquehanna	325	1.8	16 563	1.1	36	4.6	2 872	3.5	36	5.6	1 517	8.4
Tioga	359	1.4	18 220	.8	57	3.5	5 749	2.3	40	4.6	2 658	7.4
Union	158	1.6	7 103	1.2	54	3.1	10 424	2.3	35	4.7	567	11.4
Venango	64	2.6	1 836	2.0	56	3.5	2 682	4.5	21	6.0	1 011	8.0
Warren	128	2.8	5 791	1.6	51	4.7	434	8.1	15	8.8	1 889	2.0
Washington	159	2.2	6 883	1.2	75	3.7	3 694	3.2	193	2.5	9 077	3.8
Wayne	243	1.8	11 264	1.3	39	4.7	281	7.4	31	5.5	709	7.9
Westmoreland	177	1.8	7 977	1.0	104	3.1	5 409	3.8	75	3.8	2 076	5.8
Wyoming	101	1.6	4 878	1.1	21	7.3	333	10.2	12	9.9	452	18.2
York	218	1.1	12 521	.4	218	1.7	74 150	.7	137	2.4	3 672	3.4

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)
Pennsylvania	**3 706**	**1.1**	**25 150 847**	**–**	**839**	**1.0**	**108 113 026**	**.1**
Adams	46	3.6	(D)	(D)	7	3.1	431 952	(L)
Allegheny	36	5.2	3 905	3.8	3	15.8	(D)	(D)
Armstrong	50	4.1	12 100	1.9	6	11.7	1 270	27.8
Beaver	28	5.8	(D)	(D)	4	18.9	181	23.9

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 17
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	67	3.3	2 224	7.6	4	14.3	532	19.5
Berks	134	2.3	955 295	(L)	47	3.0	9 501 335	.1
Blair	28	4.9	(D)	(D)	2	20.4	(D)	(D)
Bradford	81	3.2	(D)	(D)	3	15.3	460	25.1
Bucks	53	4.3	13 626	1.3	3	16.5	(D)	(D)
Butler	79	3.5	34 277	1.3	10	8.7	3 930	8.6
Cambria	39	5.1	9 150	.8	3	16.5	(D)	(D)
Cameron	5	13.0	288	10.9	–	–	–	–
Carbon	17	6.4	3 958	9.3	2	14.4	(D)	(D)
Centre	50	4.0	10 940	.9	4	13.8	3 288	8.7
Chester	102	3.0	344 523	.3	8	–	1 500 149	–
Clarion	31	5.5	1 371	11.7	8	11.3	2 073	20.2
Clearfield	39	4.7	1 034	9.3	3	16.4	265	16.1
Clinton	27	4.8	42 722	.1	–	–	–	–
Columbia	34	5.0	1 861	7.6	14	6.1	375 119	1.0
Crawford	86	3.4	(D)	(D)	14	7.1	8 107	5.9
Cumberland	64	3.7	331 577	.1	10	4.2	1 640 474	(L)
Dauphin	43	4.1	809 458	(L)	18	2.2	3 966 753	.1
Delaware	4	11.1	(D)	(D)	–	–	–	–
Elk	21	6.9	(D)	(D)	1	35.0	(D)	(D)
Erie	38	4.9	(D)	(D)	2	22.0	(D)	(D)
Fayette	82	4.3	(D)	(D)	7	14.1	488	14.1
Forest	10	9.4	495	5.8	–	–	–	–
Franklin	97	2.4	1 168 216	(L)	27	4.0	2 891 602	(L)
Fulton	34	5.3	1 089	6.9	–	–	–	–
Greene	39	5.3	911	6.4	1	37.2	(D)	(D)
Huntingdon	38	5.0	1 384	5.5	9	8.7	943 132	1.9
Indiana	63	4.1	8 720	4.7	1	36.9	(D)	(D)
Jefferson	25	5.6	640	7.4	–	–	–	–
Juniata	51	4.0	391 727	.5	47	1.7	9 931 764	.1
Lackawanna	16	8.6	430	9.4	1	29.6	(D)	(D)
Lancaster	618	1.2	12 577 143	(L)	241	1.4	42 419 203	.1
Lawrence	70	3.9	(D)	(D)	4	18.4	363	20.6
Lebanon	85	2.3	1 975 025	(L)	41	1.5	12 301 815	(L)
Lehigh	39	4.6	87 722	.2	7	10.1	1 865	9.0
Luzerne	18	8.1	(D)	(D)	6	11.4	1 470	9.0
Lycoming	50	4.4	(D)	(D)	6	7.5	333 033	3.7
McKean	20	7.3	508	12.0	–	–	–	–
Mercer	76	3.3	(D)	(D)	14	7.7	2 260	14.2
Mifflin	94	3.0	97 468	1.0	30	4.3	1 565 362	1.7
Monroe	24	6.5	1 077	6.1	2	26.6	(D)	(D)
Montgomery	52	3.7	150 944	.2	5	10.8	2 700	9.1
Montour	18	5.6	774	7.3	8	9.0	380 347	4.0
Northampton	40	5.0	33 995	.8	6	14.9	394	8.7
Northumberland	40	3.1	722 159	(L)	34	2.4	2 920 404	.4
Perry	30	5.3	(D)	(D)	12	2.2	3 818 817	.1
Philadelphia	–	–	–	–	–	–	–	–
Pike	5	10.4	527	3.2	–	–	–	–
Potter	21	5.5	585	6.2	1	37.8	(D)	(D)
Schuylkill	45	4.0	571 483	.4	23	4.8	2 277 651	1.1
Snyder	71	3.3	341 422	.1	37	2.2	5 267 075	.4
Somerset	106	2.9	(D)	(D)	5	15.3	210	16.3
Sullivan	10	9.4	302	14.8	2	14.4	(D)	(D)
Susquehanna	39	4.5	1 091	7.6	1	42.3	(D)	(D)
Tioga	43	4.2	(D)	(D)	5	11.1	(D)	(D)
Union	45	3.8	116 853	2.7	25	3.8	3 340 053	.6
Venango	28	5.3	1 587	16.1	7	11.4	541	14.2
Warren	28	6.6	656	9.7	2	17.6	(D)	(D)
Washington	69	3.8	2 061	6.0	6	12.1	3 083	25.5
Wayne	44	4.6	1 717	8.1	4	10.8	124	2.5
Westmoreland	78	3.6	61 956	.2	15	8.4	648	11.8
Wyoming	22	6.6	495	11.4	–	–	–	–
York	121	2.1	840 148	.1	21	3.9	2 054 967	(L)

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)
Pennsylvania	**21 610**	**1.0**	**1 012 263**	**.6**	**112 034 518**	**.5**	**13 267**	**1.0**	**389 977**	**.6**	**6 136 435**	**.5**
Adams	436	1.0	22 532	.9	2 223 726	.9	151	1.3	6 773	.7	98 037	.7
Allegheny	73	3.4	1 478	3.6	155 336	3.7	23	5.7	354	4.2	4 903	4.2
Armstrong	364	1.5	13 011	1.4	1 265 946	1.3	122	2.1	2 887	1.6	41 040	1.7
Beaver	216	2.0	5 326	1.3	622 684	1.5	73	2.6	1 332	1.8	20 391	1.5

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 18
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	436	1.2	17 830	.8	2 020 549	.8	357	1.2	13 362	.7	234 597	.6
Berks	931	1.0	58 488	.6	6 827 213	.6	459	1.0	14 279	.6	232 076	.6
Blair	238	1.2	10 777	.9	1 205 062	.8	215	1.0	9 332	.6	171 115	.5
Bradford	283	1.2	13 320	.8	1 247 965	.7	542	1.0	20 759	.6	262 520	.6
Bucks	207	1.9	15 502	1.4	1 591 920	1.4	67	2.0	2 532	.6	36 141	.6
Butler	508	1.6	14 262	1.4	1 489 990	1.4	167	2.0	3 609	1.5	52 935	1.5
Cambria	262	1.8	6 251	1.5	576 338	1.6	110	2.4	2 904	1.3	43 115	1.5
Cameron	4	11.7	43	22.2	4 430	4.1	2	–	(D)	(D)	(D)	(D)
Carbon	73	2.4	2 360	1.9	195 404	1.8	16	5.2	365	5.9	5 105	5.6
Centre	425	1.4	24 070	1.0	2 559 297	.9	281	1.7	7 551	1.1	119 213	1.1
Chester	594	1.2	39 513	.6	4 957 808	.5	356	1.3	10 519	.7	197 008	.8
Clarion	195	2.3	7 178	1.8	707 488	1.7	104	2.7	3 490	1.5	41 947	1.4
Clearfield	157	1.9	4 806	1.9	430 479	2.0	71	2.8	1 681	2.5	22 425	3.7
Clinton	150	2.3	8 194	1.8	880 526	1.8	96	2.6	2 736	1.3	48 706	1.2
Columbia	360	1.3	20 675	.8	2 243 684	.7	75	2.5	2 383	1.4	29 639	1.3
Crawford	516	1.6	21 555	1.1	2 107 787	1.2	354	1.9	8 606	1.4	118 395	1.4
Cumberland	562	1.4	29 483	.8	3 188 072	.7	354	1.3	13 278	.7	214 246	.7
Dauphin	341	1.3	17 849	.9	1 838 555	.9	135	1.7	4 709	1.1	73 180	1.5
Delaware	5	12.0	(D)	(D)	(D)	(D)	2	22.3	(D)	(D)	(D)	(D)
Elk	27	5.4	412	4.8	28 186	5.7	34	4.7	714	4.4	6 223	4.2
Erie	299	1.6	14 644	1.3	1 442 784	1.3	276	1.8	7 389	1.4	101 182	1.3
Fayette	296	2.9	8 552	1.7	918 483	1.6	97	3.5	2 456	3.6	35 596	3.9
Forest	13	6.4	103	5.7	15 368	4.0	5	8.7	99	7.3	1 460	9.0
Franklin	786	.9	44 375	.5	5 400 081	.4	588	.8	24 369	.4	413 817	.3
Fulton	218	1.7	6 039	1.2	594 692	1.4	132	1.9	3 777	1.7	50 567	1.7
Greene	73	3.5	1 162	3.0	111 173	2.8	35	4.4	605	2.4	9 336	2.9
Huntingdon	310	1.6	13 439	1.0	1 522 520	.8	227	1.5	8 705	.9	132 924	.7
Indiana	447	1.5	17 954	1.3	1 837 031	1.3	191	2.0	3 951	1.4	61 197	1.6
Jefferson	183	2.1	5 065	1.3	438 227	1.3	118	2.4	2 793	2.0	32 373	1.9
Juniata	350	1.2	11 542	1.1	1 183 689	1.0	196	1.5	5 241	1.1	73 940	1.0
Lackawanna	15	4.1	1 413	1.3	163 220	1.4	44	3.3	962	2.6	12 432	2.8
Lancaster	2 963	1.0	106 903	.6	13 900 451	.6	2 481	1.2	62 670	.7	1 211 122	.7
Lawrence	396	2.0	16 885	1.6	1 850 524	1.6	193	2.3	3 334	1.5	52 812	1.5
Lebanon	563	.8	27 079	.5	3 478 876	.5	376	.7	12 108	.4	232 379	.4
Lehigh	221	1.5	28 714	.5	3 677 987	.5	28	3.8	653	2.9	11 246	3.1
Luzerne	157	2.1	6 533	1.6	593 250	1.4	75	3.2	1 813	2.6	23 228	2.6
Lycoming	482	1.3	22 813	1.1	2 503 321	1.2	213	1.7	5 166	1.0	73 698	1.1
McKean	11	9.4	147	10.0	14 863	9.2	47	3.3	951	2.6	10 762	2.8
Mercer	620	1.6	23 959	1.1	2 286 307	1.1	319	2.1	7 401	1.0	101 053	.8
Mifflin	422	1.3	13 259	1.4	1 522 486	1.4	318	1.4	7 269	1.1	115 535	1.0
Monroe	62	3.5	3 116	3.0	299 231	3.6	18	6.8	443	2.4	3 879	2.8
Montgomery	182	1.7	8 594	1.3	826 171	1.4	40	1.8	1 842	.6	25 195	.7
Montour	176	1.6	8 723	1.5	862 254	1.6	64	2.7	1 195	2.2	18 276	2.3
Northampton	226	1.5	33 632	.6	4 058 164	.6	65	2.2	2 925	1.2	41 619	1.6
Northumberland	355	1.0	30 823	.6	3 410 603	.6	119	1.6	2 577	1.1	41 211	1.0
Perry	350	1.3	16 600	.9	1 777 582	.8	174	1.3	4 750	.7	72 187	.6
Philadelphia	2	25.0	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Pike	4	7.9	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Potter	42	3.6	1 936	1.0	164 780	.9	106	1.7	4 707	1.2	57 669	1.1
Schuylkill	348	1.2	17 891	.8	1 799 193	.8	100	2.0	2 572	2.7	38 481	1.4
Snyder	437	1.6	16 804	1.4	1 635 792	1.3	223	2.0	5 179	1.5	69 221	1.5
Somerset	496	1.3	18 106	.7	1 849 196	.7	429	1.3	11 746	.9	162 577	.8
Sullivan	24	4.5	829	3.2	78 008	2.5	47	2.9	1 958	1.2	24 683	1.1
Susquehanna	46	2.8	1 955	1.4	200 609	1.3	224	1.8	7 041	1.3	92 161	1.1
Tioga	137	1.9	5 456	1.7	496 602	1.9	287	1.3	11 065	.9	133 868	.7
Union	326	1.3	15 076	.9	1 744 218	.9	178	1.8	3 982	1.5	67 963	1.5
Venango	140	2.2	3 787	1.7	323 347	1.8	70	2.7	1 462	2.6	15 324	2.1
Warren	47	4.6	1 059	2.5	83 879	2.4	118	2.9	3 931	1.5	49 005	1.6
Washington	384	1.8	9 670	1.3	967 261	1.2	150	2.3	3 382	1.7	44 797	1.4
Wayne	17	5.8	1 525	1.1	170 266	1.2	136	2.0	3 412	2.7	43 532	2.0
Westmoreland	532	1.6	17 896	1.0	1 895 828	.9	186	1.9	4 557	1.6	69 474	1.3
Wyoming	76	2.7	3 480	2.5	334 353	2.5	121	1.8	3 787	1.1	50 367	1.1
York	1 013	.8	68 684	.5	7 116 163	.5	287	1.0	11 377	.6	181 530	.5

Geographic area	Selected crops harvested —Con.											
	Wheat for grain						Oats for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Pennsylvania	**7 734**	**1.0**	**182 021**	**.7**	**8 670 089**	**.6**	**11 205**	**1.2**	**184 186**	**.9**	**11 064 027**	**.9**
Adams	355	1.2	12 328	1.0	607 085	1.0	111	2.1	1 363	2.0	74 119	2.2
Allegheny	34	5.2	330	5.5	13 753	6.0	56	4.0	716	4.1	38 488	5.0
Armstrong	88	2.5	2 178	1.7	76 148	2.1	270	1.5	4 939	1.4	270 941	1.2
Beaver	76	3.1	900	2.3	42 069	2.0	166	2.2	2 399	1.6	123 192	1.9

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 19
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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

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

Geographic area	Selected crops harvested —Con.											
	Wheat for grain						Oats for grain					
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)
Bedford	89	2.3	1 414	2.8	65 869	2.8	264	1.4	4 288	1.3	283 238	1.2
Berks	502	1.2	12 693	.9	600 181	.9	401	1.4	6 324	1.2	370 607	1.1
Blair	39	3.5	664	3.0	35 828	3.9	74	2.8	1 125	3.1	67 158	2.9
Bradford	12	7.9	177	9.5	5 926	10.6	189	1.6	3 197	1.4	178 363	1.4
Bucks	144	2.1	4 363	1.7	192 084	1.7	65	3.2	934	3.6	52 456	3.7
Butler	156	2.4	2 893	2.0	124 212	2.2	411	1.6	6 627	1.6	373 747	1.5
Cambria	33	4.4	673	2.0	34 555	2.6	289	1.6	7 394	1.1	442 030	1.1
Cameron	–	–	–	–	–	–	5	13.0	51	7.5	1 126	10.1
Carbon	45	3.2	754	2.6	28 066	2.6	61	2.7	1 029	2.1	59 589	1.8
Centre	128	2.1	3 163	1.6	166 805	1.7	231	1.9	4 042	1.4	301 166	1.3
Chester	194	1.7	5 684	1.3	287 362	1.3	55	3.5	560	4.6	33 987	3.4
Clarion	35	5.1	799	3.4	38 734	2.6	172	2.6	3 439	1.8	195 371	1.8
Clearfield	20	5.9	200	5.7	11 575	6.8	125	2.3	1 808	3.4	96 235	3.4
Clinton	30	6.4	845	3.3	48 711	2.9	53	4.7	749	3.4	34 816	4.0
Columbia	155	2.1	3 007	1.9	134 301	1.8	248	1.7	4 269	1.8	248 565	1.7
Crawford	47	3.4	1 114	1.4	51 220	1.6	395	1.7	7 826	1.4	489 127	1.4
Cumberland	286	1.6	7 133	1.6	369 633	1.4	276	1.8	3 966	1.7	265 157	1.7
Dauphin	176	1.8	5 120	1.9	219 977	2.1	194	1.7	3 085	1.7	188 428	1.7
Delaware	1	44.5	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Elk	3	19.7	8	18.8	204	26.7	53	4.1	620	5.3	25 854	5.5
Erie	32	3.3	1 767	1.2	79 609	1.0	250	1.7	5 701	1.1	392 109	1.0
Fayette	66	4.8	978	3.9	42 108	3.8	184	3.3	2 018	4.0	102 388	3.6
Forest	–	–	–	–	–	–	14	4.8	183	4.9	11 090	5.3
Franklin	405	1.1	9 651	1.0	479 681	.9	225	1.8	2 739	1.7	185 981	1.9
Fulton	121	2.2	1 596	2.2	66 148	2.3	180	1.9	2 466	1.9	158 040	1.8
Greene	5	10.0	42	13.5	1 260	13.9	10	9.0	51	8.5	1 530	10.1
Huntingdon	67	3.5	1 195	3.4	48 935	3.0	179	2.1	2 575	2.4	165 165	3.3
Indiana	75	3.5	1 534	2.8	66 633	2.7	357	1.7	7 570	1.8	434 736	1.7
Jefferson	34	4.6	671	1.6	29 900	1.6	181	2.1	3 185	1.8	163 559	1.9
Juniata	120	2.2	1 632	2.4	70 328	2.3	195	1.8	2 651	2.0	162 028	2.1
Lackawanna	4	–	916	–	44 440	–	4	13.7	165	6.5	13 110	6.7
Lancaster	1 020	1.2	13 385	1.0	721 715	.9	148	2.3	1 309	1.9	91 631	1.6
Lawrence	154	2.8	2 449	2.6	102 488	2.7	280	2.3	3 793	2.3	213 827	2.3
Lebanon	221	1.3	3 898	1.2	201 784	1.2	131	1.8	1 432	1.8	82 161	1.8
Lehigh	196	1.7	7 609	1.3	392 984	1.4	159	1.9	3 224	1.4	208 876	1.4
Luzerne	25	4.9	1 065	1.5	41 882	1.3	114	2.6	1 810	2.0	112 515	2.0
Lycoming	103	3.0	1 433	3.3	59 894	4.3	299	1.7	4 731	1.6	266 724	1.7
McKean	2	15.0	(D)	(D)	(D)	(D)	24	6.2	200	5.3	9 290	5.0
Mercer	149	2.0	2 837	1.2	127 889	1.2	491	1.8	7 878	1.4	438 692	1.4
Mifflin	147	2.2	2 024	1.6	89 311	1.8	182	2.3	1 781	2.2	134 713	2.4
Monroe	18	5.6	595	4.8	27 225	5.1	34	4.9	534	3.9	26 149	4.1
Montgomery	101	2.1	2 705	2.1	118 106	2.1	68	3.0	684	2.8	40 073	2.9
Montour	103	2.4	2 061	3.0	77 704	2.6	126	2.1	2 298	2.7	131 059	2.6
Northampton	101	2.2	5 972	1.3	331 728	1.3	72	2.9	1 510	1.9	88 995	2.1
Northumberland	161	1.5	5 001	.9	247 045	.8	229	1.3	4 161	1.2	256 238	1.1
Perry	181	1.9	3 952	1.6	164 376	1.6	252	1.7	4 093	1.7	256 786	1.8
Philadelphia	1	–	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Pike	1	–	(D)	(D)	(D)	(D)	–	–	–	–	–	–
Potter	4	–	181	–	8 490	–	53	3.0	1 970	1.6	112 192	.9
Schuylkill	190	1.7	5 535	1.0	243 993	1.0	240	1.5	5 382	1.0	326 432	1.0
Snyder	175	2.3	2 744	1.9	104 696	2.0	267	1.9	4 086	1.7	233 449	1.9
Somerset	39	3.4	477	4.0	20 905	3.8	456	1.4	10 964	1.0	719 702	1.0
Sullivan	1	28.7	(D)	(D)	(D)	(D)	24	4.2	369	4.5	22 421	4.9
Susquehanna	1	–	(D)	(D)	(D)	(D)	33	4.4	565	4.3	28 728	4.3
Tioga	11	7.0	109	7.5	4 352	5.8	156	1.8	2 928	1.2	159 624	1.5
Union	120	2.2	2 046	1.7	101 854	1.7	187	1.8	2 489	1.7	171 009	1.7
Venango	16	6.8	145	7.3	4 915	6.2	139	2.1	1 601	2.5	82 145	2.7
Warren	3	18.8	33	23.5	916	9.5	58	4.2	995	3.2	59 756	2.4
Washington	78	3.5	704	2.9	28 318	3.0	248	2.1	2 777	2.1	163 458	2.1
Wayne	–	–	–	–	–	–	7	10.0	49	16.5	1 453	5.3
Westmoreland	168	2.3	2 824	2.2	117 083	2.0	362	1.9	5 371	1.8	295 686	1.7
Wyoming	3	8.3	(D)	(D)	(D)	(D)	36	4.3	548	3.0	33 835	3.4
York	664	1.0	25 637	.6	1 240 223	.6	387	1.3	4 600	1.1	292 912	1.1

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)
Pennsylvania	**956**	**1.2**	**17 393**	**.5**	**4 030 015**	**.4**	**32 640**	**1.1**	**1 787 980**	**.9**	**4 091 919**	**.8**
Adams	13	5.5	83	1.6	14 998	1.1	595	.9	35 173	.8	77 977	.7
Allegheny	4	11.9	(D)	(D)	7 700	2.3	178	2.0	7 601	2.5	16 022	3.2
Armstrong	11	7.3	22	2.8	6 044	2.9	558	1.3	34 360	1.4	67 962	1.2
Beaver	9	9.1	(D)	(D)	2 504	13.6	370	1.5	15 233	1.5	35 864	1.5

See footnotes at end of table.

TIPS [UPF] BATCH_1496 [ACEN,C_ARLEDGE] 6/17/94 11:55 AM MACHINE: EPCV20 DATA:VOL1_TIPS_APX_23.TIPS;1 * 6/ 9/94 15:00:00 TAPE: NOreel FRAME: 20
TSF:TIPS92-15002436.DAT;1 6/ 9/94 15:00:39 UTF:TIPS93-15002436.DAT;1 6/ 9/94 15:00:39 META:VOL1_TIPS96_APX_23.DAT;2 6/ 9/94 15:01:55

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)
Bedford	15	6.7	19	5.1	5 198	6.8	781	1.1	54 399	.9	123 756	.7
Berks	28	4.4	66	5.7	10 149	4.9	1 049	1.0	53 445	.8	150 059	.7
Blair	12	8.7	11	7.9	1 533	6.5	336	1.1	24 187	1.0	64 894	.7
Bradford	12	6.8	202	2.7	43 242	2.3	1 095	1.0	106 771	.8	208 277	.8
Bucks	5	8.5	21	4.5	2 548	4.3	314	1.6	17 840	1.6	37 513	1.4
Butler	18	6.1	255	4.3	63 140	4.3	771	1.3	37 044	1.3	84 740	1.3
Cambria	46	3.0	2 756	1.1	586 994	1.1	416	1.4	17 459	1.5	34 643	1.5
Cameron	–	–	–	–	–	–	22	2.9	710	4.8	976	3.5
Carbon	5	10.4	(D)	(D)	(D)	(D)	102	1.8	4 048	3.5	7 466	3.5
Centre	12	6.7	64	1.6	16 216	2.2	542	1.4	32 268	1.1	83 847	1.0
Chester	11	7.8	359	.5	61 415	.2	770	1.2	40 911	1.1	109 104	.9
Clarion	5	10.7	(D)	(D)	(D)	(D)	368	1.7	26 561	2.0	51 437	1.8
Clearfield	11	10.4	100	40.1	(D)	(D)	276	1.2	17 072	1.6	32 178	1.5
Clinton	7	10.3	(D)	(D)	(D)	(D)	177	2.2	9 434	1.8	26 256	1.5
Columbia	21	4.7	404	.3	113 626	.2	399	1.3	16 374	1.5	40 931	1.8
Crawford	14	7.7	258	1.9	(D)	(D)	910	1.4	59 590	1.3	131 747	1.2
Cumberland	15	7.1	17	7.2	1 712	8.6	702	1.2	37 243	1.1	89 740	1.0
Dauphin	6	11.4	(D)	(D)	(D)	(D)	401	1.1	18 175	1.1	49 107	1.1
Delaware	–	–	–	–	–	–	14	4.8	845	1.9	1 819	2.5
Elk	3	18.7	7	17.5	195	17.5	119	2.1	4 602	2.5	9 872	2.6
Erie	30	3.3	3 069	.6	689 370	.3	644	1.4	33 637	1.4	78 028	1.4
Fayette	7	13.9	4	19.2	260	16.3	624	2.2	32 244	2.4	59 704	2.5
Forest	1	43.3	(D)	(D)	(D)	(D)	28	3.5	1 277	4.4	2 979	3.6
Franklin	30	5.1	206	5.9	39 057	3.5	974	.8	70 313	.8	194 331	.6
Fulton	12	8.2	5	8.8	551	10.4	372	1.2	22 113	1.2	49 780	1.2
Greene	5	15.5	9	17.0	1 524	24.4	539	1.3	27 506	1.7	42 208	1.9
Huntingdon	18	7.3	15	15.8	1 549	12.2	462	1.4	34 339	1.3	84 782	1.0
Indiana	7	12.5	69	21.9	6 763	6.5	586	1.4	35 839	1.2	71 221	1.2
Jefferson	10	7.9	33	12.0	5 562	15.4	347	1.4	25 001	1.6	50 193	1.4
Juniata	16	7.9	11	13.2	1 445	14.9	390	1.1	19 543	1.1	51 725	1.0
Lackawanna	8	8.1	85	14.4	12 552	3.3	190	1.8	12 431	2.0	21 513	2.2
Lancaster	133	2.1	1 281	.7	347 785	.6	2 961	1.2	78 604	.9	266 400	.9
Lawrence	–	–	–	–	–	–	480	1.8	19 140	1.6	46 883	1.4
Lebanon	11	7.0	23	11.1	6 560	11.2	581	.7	24 788	.5	72 021	.5
Lehigh	25	4.3	850	1.4	230 137	1.1	221	1.6	10 889	1.5	27 969	1.2
Luzerne	21	6.5	385	.7	92 749	.6	240	1.6	10 123	2.1	21 327	2.2
Lycoming	16	8.0	223	1.3	(D)	(D)	592	1.2	29 942	1.1	70 565	1.1
McKean	–	–	–	–	–	–	172	1.7	10 205	2.0	16 820	2.1
Mercer	11	6.8	153	3.3	35 747	4.2	847	1.4	35 635	1.1	83 997	1.2
Mifflin	19	6.0	17	12.5	2 435	12.4	474	1.2	21 485	1.0	60 514	1.1
Monroe	4	11.4	14	6.5	3 000	4.5	87	2.9	4 481	3.3	8 376	3.0
Montgomery	3	14.5	1	18.2	164	23.6	238	1.5	8 946	1.4	20 233	1.2
Montour	3	14.1	2	15.7	700	15.4	169	1.7	6 642	1.7	16 270	1.7
Northampton	15	7.9	228	10.9	55 711	11.2	222	1.6	11 469	1.7	32 088	1.6
Northumberland	14	7.2	268	.9	71 355	.5	344	1.0	12 130	.8	32 135	.9
Perry	5	13.7	(D)	(D)	964	17.1	446	1.2	23 535	1.1	58 916	1.0
Philadelphia	–	–	–	–	–	–	–	–	–	–	–	–
Pike	2	–	(D)	(D)	(D)	(D)	21	3.3	616	4.9	835	2.9
Potter	12	5.9	1 187	.4	304 600	.4	239	1.2	21 251	1.4	38 279	1.4
Schuylkill	44	2.8	1 441	1.0	381 411	1.0	382	1.2	16 291	1.1	35 991	1.1
Snyder	32	5.4	32	8.2	4 178	8.2	487	1.5	20 879	1.4	53 189	1.7
Somerset	21	4.9	909	2.5	169 994	2.4	806	1.1	58 730	.8	121 712	.8
Sullivan	4	12.1	(D)	(D)	(D)	(D)	122	1.4	10 037	1.5	19 940	1.5
Susquehanna	4	10.8	3	8.6	389	4.8	627	1.7	56 172	1.5	104 755	1.4
Tioga	7	10.5	21	10.1	5 143	9.3	686	1.2	71 452	1.0	133 208	1.0
Union	4	–	8	–	1 630	–	352	1.3	16 200	1.6	41 929	1.3
Venango	4	15.5	(D)	(D)	(D)	(D)	289	1.2	12 354	1.6	21 462	1.8
Warren	7	8.3	343	.3	94 200	.2	314	1.9	17 265	1.8	34 979	1.8
Washington	12	8.6	29	19.6	7 640	28.6	1 133	1.3	57 656	1.5	111 916	1.5
Wayne	5	14.5	4	15.8	795	16.2	535	1.5	38 656	1.5	71 904	1.3
Westmoreland	11	9.9	46	18.6	3 836	12.0	875	1.4	41 084	1.3	84 637	1.3
Wyoming	1	38.3	(D)	(D)	(D)	(D)	241	1.3	17 300	1.1	39 092	1.4
York	79	2.6	1 016	2.0	199 578	2.5	1 036	.8	38 435	.8	100 926	.7

Geographic area	Selected crops harvested —Con.			
	Land in orchards			
	Farms		Acres	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Pennsylvania	**2 317**	**1.2**	**57 656**	**.5**
Adams	160	1.6	19 398	.4
Allegheny	25	5.6	126	6.6
Armstrong	25	5.8	201	6.7
Beaver	35	4.9	224	4.9

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	Selected crops harvested —Con.			
	Land in orchards			
	Farms		Acres	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Bedford	33	5.0	927	2.6
Berks	79	3.2	1 785	1.2
Blair	19	6.4	685	4.4
Bradford	40	4.7	327	6.8
Bucks	51	4.5	416	5.8
Butler	45	4.6	153	5.9
Cambria	21	6.2	58	10.7
Cameron	3	15.1	(D)	(D)
Carbon	18	6.8	75	8.2
Centre	44	4.1	414	2.7
Chester	52	4.6	593	2.7
Clarion	18	7.1	98	9.7
Clearfield	9	11.5	74	25.5
Clinton	12	9.8	55	21.5
Columbia	23	5.7	366	3.3
Crawford	32	5.7	132	9.5
Cumberland	35	4.7	1 028	2.3
Dauphin	32	5.1	289	1.7
Delaware	9	7.7	84	4.2
Elk	5	16.1	16	24.2
Erie	314	1.6	12 285	.8
Fayette	17	9.1	24	12.8
Forest	5	15.0	7	16.5
Franklin	60	2.7	5 874	.4
Fulton	9	9.6	53	24.7
Greene	13	8.8	64	9.8
Huntingdon	16	8.3	111	16.2
Indiana	31	5.5	235	8.1
Jefferson	15	7.4	90	7.1
Juniata	17	5.7	532	2.6
Lackawanna	26	6.4	142	9.7
Lancaster	134	2.3	1 054	2.4
Lawrence	17	7.7	117	5.9
Lebanon	28	4.7	236	2.9
Lehigh	43	4.2	800	2.5
Luzerne	36	5.2	493	7.6
Lycoming	42	4.7	522	3.4
McKean	11	10.2	40	11.0
Mercer	34	4.6	223	4.1
Mifflin	35	4.9	257	7.5
Monroe	13	8.0	136	2.6
Montgomery	21	6.4	229	4.4
Montour	4	10.6	92	2.6
Northampton	29	5.8	229	4.8
Northumberland	31	4.3	422	5.4
Perry	18	7.4	121	15.1
Philadelphia	–	–	–	–
Pike	8	6.5	24	8.7
Potter	8	11.4	12	11.2
Schuylkill	56	3.3	598	2.5
Snyder	41	4.2	875	1.8
Somerset	27	5.6	183	10.9
Sullivan	1	36.1	(D)	(D)
Susquehanna	12	8.1	92	5.4
Tioga	25	5.8	206	7.6
Union	20	5.7	166	11.1
Venango	17	6.2	107	8.7
Warren	14	10.0	43	13.5
Washington	36	4.9	490	3.2
Wayne	55	4.1	364	6.1
Westmoreland	45	5.0	205	5.1
Wyoming	13	9.3	178	15.4
York	95	2.7	2 193	1.4

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

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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	44 870	1.1	7 937	21.2	15.0	2.7
Land in farms ---- acres	7 189 541	.8	354 022	18.1	4.7	.8
Average size of farm ---- acres	160.2	1.3	44.6	15.6	(X)	(X)
Farms by size:						
Less than 10 acres	3 005	1.1	1 070	56.7	26.2	10.8
10 to 49 acres	9 095	1.2	4 260	24.3	31.9	5.3
Less than 50 acres	12 100	1.1	5 329	27.9	30.6	5.8
50 acres or more	32 770	1.1	2 608	21.9	7.4	1.5
50 to 99 acres	9 969	1.2	1 746	26.0	14.9	3.3
100 to 179 acres	10 167	1.3	668	39.6	6.2	2.3
180 acres or more	12 634	.9	193	48.7	1.5	.7
Harvested cropland ---- farms	40 090	1.1	5 089	18.7	11.3	1.9
acres	3 861 435	.7	102 005	18.3	2.6	.5
Farms by value of sales:						
Less than $1,000	4 879	1.3	4 246	25.6	46.5	6.3
$1,000 to $2,499	4 755	1.3	1 880	39.4	28.3	8.0
Less than $2,500	9 634	1.2	6 126	26.6	38.9	6.3
$2,500 or more	35 236	1.1	1 811	21.6	4.9	1.0
$2,500 to $9,999	10 869	1.3	1 068	29.5	8.9	2.4
$10,000 or more	24 367	1.1	744	31.6	3.0	.9
Market value of agricultural products sold ---- $1,000	3 570 191	.3	40 634	28.6	1.1	.4
Farms by standard industrial classification:						
Crops (01)	17 612	1.2	2 954	25.6	14.4	3.2
Livestock (02)	27 258	1.0	4 983	28.2	15.5	3.6
Farms by type of organization:						
Individual or family	39 646	1.1	7 147	18.2	15.3	2.4
Partnership or corporation	5 079	1.2	616	91.5	10.8	8.7
Other	145	2.3	85	(H)	37.0	23.4
Farms by tenure of operator:						
Full owners	25 983	1.1	6 375	24.2	19.7	3.8
Part owners and tenants	18 887	1.1	1 497	31.9	7.3	2.2
Part owners	14 161	.9	1 233	35.7	8.0	2.7
Tenants	4 726	1.7	264	62.2	5.3	3.1
Operators by place of residence:						
On farm operated	36 501	1.0	6 641	23.6	15.4	3.0
Not on farm operated	4 980	1.3	1 128	41.9	18.5	6.4
Not reported	3 389	1.2	168	58.6	4.7	2.6
Operators by principal occupation:						
Farming	26 959	1.0	2 718	26.0	9.2	2.2
Other	17 911	1.2	4 312	22.1	19.4	3.4
Operators by sex:						
Male	42 063	1.1	6 242	17.0	12.9	2.0
Female	2 807	1.3	1 695	68.7	37.6	15.8
Operators by race:						
White	44 783	1.1	7 031	18.0	13.6	2.1
Black and other races	87	3.0	–	(X)	–	(X)
Operators by years on present farm:						
4 years or less	4 215	2.2	2 553	29.9	37.7	6.9
5 years or more	33 109	1.0	3 615	21.7	9.8	2.0
Average years on present farm	20.9	1.4	11.3	21.0	(X)	(X)
Not reported	7 546	1.1	1 770	41.9	19.0	6.4
Average age of operator	52.2	1.5	45.8	14.9	(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.

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