

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. .	12.6
Land in farms.....acres. .	8.9
Estimated market value of land and buildings ¹.....\$1,000. .	4.8
Market value of agricultural products sold ..\$1,000. .	6.0
Harvested cropland .....acres. .	8.0
Corn for grain or seed .....acres. .	7.3
Wheat for grain .....acres. .	8.1
Livestock and poultry inventory:	
Cattle and calves .....number. .	9.0
Hogs and pigs .....number. .	6.6
Hens and pullets of laying age.....number. .	.4

¹Data are based on a sample of farms.

Sample Estimation

Sample data estimates the population totals that would have resulted from a complete census for the items in sections 21 through 26 of the sample report form. The estimates were obtained from a ratio estimation procedure that resulted in the assignment of a weight to each respondent record containing sample items. For any given county, a sample item total was estimated by multiplying the data items for each farm in the county by the corresponding sample weight and summing over all sample records in the county.

Each respondent sample farm was assigned a sample weight for use in producing estimates for all sample items. For example, if the weight given to a sample farm had the value 6, all sample data items reported by that farm would be multiplied by 6. The weight assigned to a sample certainty farm was 1.

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

TVP	SIC	Acres
\$1 to \$999	01 All crops	1 to 69
\$1,000 to \$2,499	02 All livestock	70 or more
\$2,500 to \$4,999		
\$5,000 to \$9,999		
\$10,000 to \$24,999		
\$25,000 to \$49,999		
\$50,000 to \$99,999		
\$100,000 or more		

The first step in the estimation procedure was to classify the sample records into 32 mutually exclusive initial post strata formed by the three sets of groups. The total and sample farm counts were expanded to account for nonresponse. Each cell containing sample farm records was assigned an initial sample weight equal to the ratio of the total farm count to the sample farm count. This weight was approximately equal to the inverse of the probability of selecting a farm for the census sample.

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

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

CENSUS SAMPLING ERROR

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

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

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

1. Approximately 90 percent of the intervals from 1.65 standard errors below the estimate to 1.65 standard errors above the estimate would include the average value of all possible samples.
2. Approximately 95 percent of the intervals from 1.96 standard errors below the estimate to 1.96 standard errors above the estimate would include the average value of all possible samples.

The following example illustrates the computations necessary for producing a confidence interval for an estimate. Assume that the estimate of number of farms for a State is 94,382 and the relative standard error of the estimate is .1 percent (0.001). Multiplying 94,382 by 0.001 yields 94, the standard error; therefore, a 90-percent confidence interval is 94,227 to 94,537 (i.e., 94,382 plus or minus 1.65 x 94). If corresponding confidence intervals were constructed for all possible samples of the same size and design, approximately 90 percent of these intervals would contain the figure obtained from a complete enumeration. Similarly, a 95-percent confidence interval is 94,198 to 94,566 (i.e., 94,382 plus or minus 1.96 x 94).

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

Sample count items were asked only of a sample of farm operators. These items appeared only in sections 21 through 26 of the sample report form. Sample count items were included under the following section headings: commercial fertilizers, chemicals, production expenses, farm machinery and equipment, value of land and buildings, and farm-related income.

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

Table B provides the generalized reliability estimates of the estimated number of farms in a county reporting complete count and sample count items. The top half of the table shows the percent relative standard error for estimated number of farms in a county reporting a complete count item and the bottom half a sample count item. These are derived from regression equations. Separate regression equations were used for complete count items and sample count items. Each regression equation was fit with the estimated number of farms in a county reporting an item as the independent variable and the relative variance of that estimate as the dependent variable for all counties in the State. For sample count items, only data

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

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

Farms	Relative standard error of estimate (percent)
COMPLETE COUNT ITEM	
Number of farms reporting:	
25	5.8
50	4.0
75	3.2
100	2.7
150	2.1
200	1.7
300	1.2
500 .....	.5
750 .....	.4
1,000 .....	.3
1,500 .....	.3
2,000 .....	.2
SAMPLE COUNT ITEM	
Number of farms reporting:	
25	28.7
50	22.1
75	19.3
100	17.8
150	16.2
200	15.3
300	14.3
500	13.5
750	13.1
1,000	12.9
1,500	12.7
2,000	12.6

To illustrate the use of this table, assume that the estimate of the number of farms reporting hogs and pigs for a particular county, as given in county table 15, is 89. Since hogs and pigs is a complete count data item, refer to the first part of table B and use the estimated percent relative standard error of the estimate from the row with farm count equal to or just less than the estimated number of farms, 89. For this example, the percent relative standard error of the estimate comes from the row for 75 farms reporting. For sample count items, follow the same procedure using the second part of table B. For counties with fewer than 100 farms in the 1987 Census of Agriculture, variability in sample count item estimates comes only from nonresponse survey estimation procedures; thus, the estimated relative standard error for a sample count item in these counties may be obtained using the first part of table B.

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

Table E presents the percent standard error for percent change in State totals from 1987 to 1992. The general

purpose of the percent change estimate is to provide a relative measure of the difference in a characteristic between censuses. The relative change for a given characteristic is defined as the ratio of the difference of the 1992 and the 1987 estimate for that characteristic to the 1987 estimate. This ratio is multiplied by 100 to obtain the percent change. The percent standard error of a percent change estimate, then, is the standard error of the ratio multiplied by 100.

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

CENSUS NONSAMPLING ERROR

The accuracy of the census counts are affected jointly by sampling errors, described in the previous section, and nonsampling errors. Extensive efforts were made to compile a complete and accurate mail list for the census, to design an understandable report form with instructions, and to minimize processing errors through the use of quality control measures on specific operations. Nonsampling errors arise from incompleteness of the census mail list, duplication in the mail list, incorrect data reporting, errors in editing of reported data, and errors in imputation for missing data. These specific nonsampling errors are further discussed in this section. Evaluation studies will be conducted to measure the extent of certain nonsampling errors such as coverage error and classification error.

Census Coverage

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

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

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

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

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

Mail List Coverage

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

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

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

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

Respondent and Enumerator Error

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

Item Nonresponse

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

Processing Error

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

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

Classification Error

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

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

EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE

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

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

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

For the 1992 Census of Agriculture, as in previous censuses, all reported data were keyed and then edited by computer. The edits were used to determine whether the reports met the minimum criteria to be counted as farms in the census. The complex edit and imputation system provided the basis for deciding to accept, impute (supply), delete, or alter the reported value for each data record item.

Whenever possible, edit imputations, deletions, and changes were based on component or related data on the respondent's report form. For some items, such as operator characteristics, data from the previous census were used when available. Values for other missing or unacceptable reported data items were calculated based on reported quantities and known price parameters.

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

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

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

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

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			FARM PRODUCTION EXPENSES¹		
Farms -----number--	70 711	1.1	Total farm production expenses -----farms--	70 695	1.1
Land in farms -----acres--	14 247 969	1.0	-----\$1,000--	3 119 014	.7
Average size of farm -----acres--	201	1.4	Average per farm -----dollars--	44 119	1.3
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			Livestock and poultry purchased -----farms--		
Total sales (see text) -----farms--	70 711	1.1	-----\$1,000--	287 297	1.2
-----\$1,000--	3 914 040	.7	-----farms--	35 802	1.3
Average per farm -----dollars--	55 353	1.3	-----\$1,000--	545 008	.9
Farms by value of sales:			Commercially mixed formula feeds -----farms--	17 756	1.8
Less than \$1,000 (see text) -----farms--	6 421	1.3	-----\$1,000--	336 255	1.0
-----\$1,000--	1 986	1.4	Seeds, bulbs, plants, and trees -----farms--	50 075	1.3
\$1,000 to \$2,499 -----farms--	7 509	1.2	-----\$1,000--	179 519	1.0
-----\$1,000--	12 586	1.1	Commercial fertilizer -----farms--	52 433	1.2
\$2,500 to \$4,999 -----farms--	8 997	1.0	-----\$1,000--	305 407	1.1
-----\$1,000--	32 392	1.0	Agricultural chemicals -----farms--	51 627	1.2
\$5,000 to \$9,999 -----farms--	9 827	1.0	-----\$1,000--	189 954	1.1
-----\$1,000--	70 389	1.0	Petroleum products -----farms--	67 785	1.1
\$10,000 to \$19,999 -----farms--	10 099	1.4	-----\$1,000--	176 670	1.0
-----\$1,000--	144 117	1.4	Electricity -----farms--	51 576	1.2
\$20,000 to \$24,999 -----farms--	3 094	1.7	-----\$1,000--	54 020	1.1
-----\$1,000--	68 832	1.7	Hired farm labor -----farms--	20 559	1.6
\$25,000 to \$39,999 -----farms--	5 828	1.8	-----\$1,000--	259 501	.6
-----\$1,000--	184 227	1.8	Contract labor -----farms--	4 919	3.1
\$40,000 to \$49,999 -----farms--	2 483	1.8	-----\$1,000--	16 012	3.0
-----\$1,000--	110 608	1.8	Repair and maintenance -----farms--	60 915	1.1
\$50,000 to \$99,999 -----farms--	6 779	1.8	-----\$1,000--	227 455	1.1
-----\$1,000--	484 664	1.7	Customwork, machine hire, and rental of machinery		
\$100,000 to \$249,999 -----farms--	6 567	1.2	and equipment -----farms--	26 255	1.6
-----\$1,000--	1 028 485	1.1	-----\$1,000--	44 730	1.8
\$250,000 to \$499,999 -----farms--	2 212	—	Interest expense -----farms--	30 967	1.5
-----\$1,000--	749 884	—	-----\$1,000--	216 492	1.2
\$500,000 or more -----farms--	895	—	Secured by real estate -----farms--	22 750	1.6
-----\$1,000--	1 025 870	—	-----\$1,000--	152 940	1.5
Sales by commodity or commodity group:			Not secured by real estate -----farms--	16 692	1.8
Crops, including nursery and greenhouse crops -----farms--	51 798	1.1	-----\$1,000--	63 552	1.4
-----\$1,000--	2 195 985	.8	Cash rent -----farms--	19 904	1.7
Grains -----farms--	41 160	1.2	-----\$1,000--	216 114	1.2
-----\$1,000--	1 677 049	.9	Property taxes -----farms--	64 108	1.1
Corn for grain -----farms--	29 979	1.3	-----\$1,000--	86 406	1.2
-----\$1,000--	760 444	.8	All other farm production expenses -----farms--	64 754	1.1
Wheat -----farms--	23 570	1.3	-----\$1,000--	314 430	.8
-----\$1,000--	155 593	1.0			
Soybeans -----farms--	31 500	1.2	NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
-----\$1,000--	743 877	.9	All farms -----number--	70 695	1.1
Sorghum for grain -----farms--	26	5.8	-----\$1,000--	787 050	1.2
-----\$1,000--	131	5.0	Average per farm -----dollars--	11 133	1.6
Barley -----farms--	240	2.2	Farms with net gains ² -----number--	39 522	1.3
-----\$1,000--	422	2.3	-----\$1,000--	969 491	1.0
Oats -----farms--	3 151	1.3	Average net gain -----dollars--	24 530	1.7
-----\$1,000--	4 899	1.3	Farms with net losses -----number--	31 173	1.3
Other grains -----farms--	883	1.5	-----\$1,000--	182 442	1.8
-----\$1,000--	11 683	1.1	Average net loss -----dollars--	5 853	2.2
Cotton and cottonseed -----farms--	—	—	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
-----\$1,000--	—	—	Government payments -----farms--	20 730	1.2
Tobacco -----farms--	3 475	1.2	-----\$1,000--	109 439	.9
-----\$1,000--	32 203	1.6	Other farm-related income ¹ -----farms--	16 712	1.9
Hay, silage, and field seeds -----farms--	13 517	1.1	-----\$1,000--	75 440	3.3
-----\$1,000--	72 031	1.2	Customwork and other agricultural services -----farms--	7 007	2.7
Vegetables, sweet corn, and melons -----farms--	2 346	1.0	-----\$1,000--	36 245	5.1
-----\$1,000--	81 283	.4	Gross cash rent or share payments -----farms--	5 677	3.2
Fruits, nuts, and berries -----farms--	1 432	1.1	-----\$1,000--	23 894	4.9
-----\$1,000--	26 875	.8	Forest products and Christmas trees -----farms--	1 878	5.2
Nursery and greenhouse crops -----farms--	2 032	.8	-----\$1,000--	9 286	7.9
-----\$1,000--	288 731	.2	Other farm-related income sources -----farms--	4 802	3.0
Other crops -----farms--	500	1.4	-----\$1,000--	6 015	9.7
-----\$1,000--	17 814	.6	COMMODITY CREDIT CORPORATION LOANS		
Livestock, poultry, and their products -----farms--	37 936	1.1	Total -----farms--	3 095	1.2
-----\$1,000--	1 718 055	.7	-----\$1,000--	95 441	.6
Poultry and poultry products -----farms--	2 599	1.1			
-----\$1,000--	379 331	.2			
Dairy products -----farms--	6 405	1.5			
-----\$1,000--	536 164	.9			
Cattle and calves -----farms--	27 852	1.1			
-----\$1,000--	412 834	.8			
Hogs and pigs -----farms--	9 640	1.2			
-----\$1,000--	341 631	.8			
Sheep, lambs, and wool -----farms--	4 304	1.1			
-----\$1,000--	8 575	1.3			
Other livestock and livestock products (see text) -----farms--	4 405	1.2			
-----\$1,000--	39 521	.8			
Value of agricultural products sold directly to individuals for human consumption (see text) -----farms--	4 698	1.0			
-----\$1,000--	21 580	.8			

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			TENURE OF OPERATOR		
Total cropland ----- farms ..	66 353	1.1	All operators ----- farms ..	70 711	1.1
Harvested cropland ----- farms ..	11 528 727	1.0	Full owners ----- farms ..	14 247 969	1.0
1 to 9 acres ----- farms ..	62 535	1.1	Part owners ----- farms ..	41 342	1.0
10 to 19 acres ----- farms ..	9 790 327	1.0	Tenants ----- farms ..	4 314 187	1.1
20 to 29 acres ----- farms ..	8 103	1.1	Tenants ----- farms ..	21 876	1.2
30 to 49 acres ----- farms ..	34 705	1.1	Tenants ----- farms ..	8 320 042	.9
50 to 99 acres ----- farms ..	6 979	1.0	Tenants ----- farms ..	7 493	1.5
100 to 199 acres ----- farms ..	95 519	1.0	Tenants ----- farms ..	1 613 740	1.4
200 to 499 acres ----- farms ..	5 431	1.0	OWNED AND RENTED LAND		
500 to 999 acres ----- farms ..	126 686	1.0	Land owned ----- farms ..	63 459	1.0
1,000 acres or more ----- farms ..	8 303	1.1	Owned land in farms ----- farms ..	8 292 829	1.1
1,000 acres or more ----- farms ..	314 548	1.1	Owned land in farms ----- farms ..	63 218	1.0
1,000 acres or more ----- farms ..	11 290	1.4	Owned land in farms ----- farms ..	7 621 595	1.0
1,000 acres or more ----- farms ..	787 670	1.5	Land rented or leased from others ----- farms ..	29 504	1.2
1,000 acres or more ----- farms ..	9 191	1.7	Rented or leased land in farms ----- farms ..	6 670 531	.9
1,000 acres or more ----- farms ..	1 278 605	1.7	Rented or leased land in farms ----- farms ..	87 255	1.1
1,000 acres or more ----- farms ..	8 309	1.6	Rented or leased land in farms ----- farms ..	29 369	1.2
1,000 acres or more ----- farms ..	2 594 361	1.5	Rented or leased land in farms ----- farms ..	6 626 374	.9
1,000 acres or more ----- farms ..	3 507	.9	Land rented or leased to others ----- farms ..	8 764	1.1
1,000 acres or more ----- farms ..	2 393 729	.8	Land rented or leased to others ----- farms ..	715 391	1.3
1,000 acres or more ----- farms ..	1 422	—	OPERATOR CHARACTERISTICS		
1,000 acres or more ----- farms ..	2 164 504	—	Operators by place of residence:		
Cropland:			On farm operated ----- farms ..	54 856	1.1
Pasture or grazing only ----- farms ..	24 540	1.1	Not on farm operated ----- farms ..	11 805	1.2
Other cropland ----- farms ..	890 731	1.1	Not reported ----- farms ..	4 050	1.1
Other cropland ----- farms ..	25 982	1.1	Operators by principal occupation:		
Other cropland ----- farms ..	847 669	1.0	Farming ----- farms ..	34 604	1.2
Total woodland ----- farms ..	37 449	1.1	Other ----- farms ..	36 107	1.0
Pastureland and rangeland other than cropland and woodland pastured ----- farms ..	14 204	1.1	Operators by days worked off farm:		
Land in house lots, ponds, roads, wasteland, etc. ----- farms ..	623 449	1.1	Any ----- farms ..	40 575	1.1
Irrigated land ----- farms ..	47 568	1.1	200 days or more ----- farms ..	29 330	1.1
Irrigated land ----- farms ..	582 707	1.0	Operators by sex:		
Irrigated land ----- farms ..	1 755	.9	Male ----- farms ..	66 482	1.1
Irrigated land ----- farms ..	29 479	.8	Female ----- farms ..	13 742 296	1.0
Acres irrigated:			Female ----- farms ..	4 229	1.1
1 to 9 acres ----- farms ..	1 376	.9	Female ----- farms ..	505 673	1.2
10 to 49 acres ----- farms ..	(D)	(D)	Average age of operator ----- years ..	52.0	1.5
50 to 99 acres ----- farms ..	260	1.8	FARMS BY TYPE OF ORGANIZATION		
100 to 199 acres ----- farms ..	5 424	2.0	Individual or family (sole proprietorship) ----- farms ..	60 936	1.1
200 to 499 acres ----- farms ..	59	2.7	Partnership ----- farms ..	10 812 704	1.1
500 to 999 acres ----- farms ..	3 945	2.7	Partnership ----- farms ..	7 690	1.2
1,000 acres or more ----- farms ..	31	3.1	Partnership ----- farms ..	2 510 540	.8
1,000 acres or more ----- farms ..	4 114	3.1	Corporation:		
1,000 acres or more ----- farms ..	22	1.2	Family held ----- farms ..	1 602	.9
1,000 acres or more ----- farms ..	6 548	1.1	More than 10 stockholders ----- farms ..	785 926	.5
1,000 acres or more ----- farms ..	5	—	10 or less stockholders ----- farms ..	58	3.1
1,000 acres or more ----- farms ..	3 725	—	Other than family held ----- farms ..	1 544	.9
1,000 acres or more ----- farms ..	2	—	More than 10 stockholders ----- farms ..	170	2.0
1,000 acres or more ----- farms ..	(D)	(D)	10 or less stockholders ----- farms ..	48 067	1.8
Harvested cropland irrigated ----- farms ..	1 714	.9	More than 10 stockholders ----- farms ..	25	5.0
Pasture and other land irrigated ----- farms ..	28 423	.8	10 or less stockholders ----- farms ..	145	2.2
Pasture and other land irrigated ----- farms ..	81	3.0	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	313	1.9
Pasture and other land irrigated ----- farms ..	1 056	6.0	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	90 732	1.2
Land under federal acreage reduction programs:			HIRED FARM LABOR		
Diverted under annual commodity programs ----- farms ..	14 162	1.3	Hired workers by days worked:		
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	165 029	.8	150 days or more ----- farms ..	8 057	23.2
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	3 643	1.3	Less than 150 days ----- farms ..	19 238	12.0
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	162 509	1.4	Less than 150 days ----- farms ..	18 642	30.7
Conservation Reserve or Wetlands Reserve Programs ----- farms ..			Less than 150 days ----- farms ..	63 785	24.9
VALUE OF LAND AND BUILDINGS ¹			INJURIES AND DEATHS		
Estimated market value of land and buildings ----- farms ..	70 695	1.1	Farm-related injuries:		
Average per farm ----- dollars ..	20 626 423	1.1	Operator and family members ----- farms ..	597	1.6
Average per acre ----- dollars ..	291 766	1.5	Hired workers ----- farms ..	657	1.6
Average per acre ----- dollars ..	1 456	1.5	Hired workers ----- farms ..	426	1.0
VALUE OF MACHINERY AND EQUIPMENT ¹			Hired workers ----- farms ..	818	.6
Estimated market value of all machinery and equipment ----- farms ..	70 651	1.1	Farm-related deaths:		
Average per farm ----- dollars ..	3 460 637	1.2	Operator and family members ----- farms ..	18	5.7
Average per farm ----- dollars ..	48 982	1.6	Hired workers ----- farms ..	18	5.7
AGRICULTURAL CHEMICALS ¹			Hired workers ----- farms ..	4	9.1
Commercial fertilizer ----- farms ..	52 265	1.2	Hired workers ----- farms ..	4	9.1
Acres on which used ----- farms ..	7 528 610	1.1	Hired workers ----- farms ..	4	9.1

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS BY SIZE			LIVESTOCK—Con.		
1 to 9 acres ----- farms ..	5 417	1.1	Cattle and calves sold ----- farms ..	27 852	1.1
----- acres..	22 637	1.2	----- number..	772 063	.8
10 to 49 acres ----- farms ..	15 295	1.0	----- \$1,000..	412 834	.8
----- acres..	421 916	1.0	Hogs and pigs inventory ----- farms ..	9 392	1.2
50 to 69 acres ----- farms ..	5 719	1.0	----- number..	1 957 945	.8
----- acres..	333 951	1.0	Hogs and pigs sold ----- farms ..	9 640	1.2
70 to 99 acres ----- farms ..	8 269	1.2	----- number..	3 936 095	.8
----- acres..	686 889	1.2	----- \$1,000..	341 631	.8
100 to 139 acres ----- farms ..	8 196	1.3	Sheep and lambs of all ages inventory ----- farms ..	4 329	1.1
----- acres..	953 500	1.3	----- number..	186 444	1.3
140 to 179 acres ----- farms ..	5 684	1.5	Sheep and lambs sold ----- farms ..	4 109	1.1
----- acres..	895 183	1.5	----- number..	148 487	1.3
180 to 219 acres ----- farms ..	3 997	1.6	Horses and ponies inventory ----- farms ..	10 865	1.1
----- acres..	789 062	1.6	----- number..	71 989	2.0
220 to 259 acres ----- farms ..	2 913	1.6	Horses and ponies sold ----- farms ..	2 920	1.2
----- acres..	693 909	1.6	----- number..	9 707	1.5
260 to 499 acres ----- farms ..	8 373	1.6	POULTRY		
----- acres..	2 969 512	1.6	Chickens 3 months old or older inventory ----- farms ..	3 904	1.1
500 to 999 acres ----- farms ..	4 793	1.1	----- number..	23 226 113	.1
----- acres..	3 251 170	1.1	Hens and pullets of laying age ----- farms ..	3 830	1.1
1,000 to 1,999 acres ----- farms ..	1 719	—	----- number..	19 356 658	.1
2,000 acres or more ----- farms ..	2 277 583	—	Broilers and other meat-type chickens sold ----- farms ..	532	1.8
----- acres..	952 657	—	----- number..	25 257 739	1.7
FARMS BY STANDARD INDUSTRIAL CLASSIFICATION			CROPS HARVESTED		
Cash grains (011) ----- farms ..	29 144	1.2	Corn for grain or seed ----- farms ..	37 341	1.3
----- acres..	8 440 742	1.0	----- acres..	3 486 744	.9
Field crops, except cash grains (013) ----- farms ..	6 946	1.1	----- bushels..	467 163 760	.9
----- acres..	740 974	1.2	Corn for silage or green chop ----- farms ..	6 725	1.4
Vegetables and melons (016) ----- farms ..	923	1.3	----- acres..	176 367	1.0
----- acres..	106 819	.8	----- tons, green..	2 969 730	.9
Fruits and tree nuts (017) ----- farms ..	1 049	1.2	Wheat for grain ----- farms ..	24 054	1.3
----- acres..	64 591	1.2	----- acres..	1 089 529	1.0
Horticultural specialties (018) ----- farms ..	1 711	.8	----- bushels..	54 020 364	1.0
----- acres..	79 652	.9	Oats for grain ----- farms ..	8 048	1.4
General farms, primarily crop (019) ----- farms ..	2 024	1.2	----- acres..	115 727	1.3
----- acres..	307 543	1.2	Tobacco ----- farms ..	7 901 758	1.3
Livestock, except dairy, poultry, and animal specialties (021) ----- farms ..	19 373	1.0	----- acres..	3 487	1.2
----- acres..	2 692 700	1.0	----- pounds..	11 006	1.5
Dairy farms (024) ----- farms ..	5 110	1.5	Soybeans for beans ----- farms ..	20 827 989	1.6
----- acres..	1 371 359	1.1	----- acres..	31 635	1.2
Poultry and eggs (025) ----- farms ..	803	1.1	----- bushels..	3 776 952	1.0
----- acres..	90 725	.6	Irish potatoes ----- farms ..	309	.9
Animal specialties (027) ----- farms ..	2 800	1.3	----- acres..	5 931	.8
----- acres..	125 867	1.4	Sugar beets for sugar ----- farms ..	1 367 977	.7
General farms, primarily livestock and animal specialties (029) ----- farms ..	828	1.5	----- acres..	227	1.6
----- acres..	226 997	1.2	----- tons..	20 004	1.0
LIVESTOCK			Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ----- farms ..	33 080	1.1
Cattle and calves inventory ----- farms ..	29 874	1.1	----- acres..	1 200 789	1.1
----- number..	1 362 489	1.0	----- tons, dry..	2 949 243	1.1
Beef cows ----- farms ..	16 885	1.0	Alfalfa hay ----- farms ..	22 651	1.1
----- number..	272 920	1.2	----- acres..	658 206	1.1
Milk cows ----- farms ..	6 980	1.4	Vegetables harvested for sale (see text) ----- farms ..	1 887 046	1.1
----- number..	295 677	1.0	----- acres..	2 349	1.1
			----- farms ..	55 024	.6
			Land in orchards ----- farms ..	1 717	1.1
			----- acres..	17 563	1.0

¹Data are based on a sample of farms.

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

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
FARMS AND LAND IN FARMS			FARM PRODUCTION EXPENSES¹		
Farms number ..	37 957	1.4	Total farm production expenses farms ..	37 897	1.4
Land in farms acres ..	11 909 565	1.0	..... \$1,000 ..	2 931 850	.8
Average size of farm acres ..	314	1.7	Average per farm dollars ..	77 364	1.6
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD			NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)¹		
Total sales (see text) farms ..	37 957	1.4	All farms number ..	37 897	1.4
..... \$1,000 ..	3 796 687	.7	..... \$1,000 ..	856 381	1.1
Average per farm dollars ..	100 026	1.6	Average per farm dollars ..	22 598	1.8
Farms by value of sales:			Farms with net gains ² number ..	29 343	1.5
\$10,000 to \$19,999 farms ..	10 099	1.4	..... \$1,000 ..	949 889	1.0
..... \$1,000 ..	144 117	1.4	Average net gain dollars ..	32 372	1.8
\$20,000 to \$24,999 farms ..	3 094	1.7	Farms with net losses number ..	8 554	2.6
..... \$1,000 ..	68 832	1.7	..... \$1,000 ..	93 508	2.7
\$25,000 to \$39,999 farms ..	5 828	1.8	Average net loss dollars ..	10 932	3.8
..... \$1,000 ..	184 227	1.8	GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME		
\$40,000 to \$49,999 farms ..	2 483	1.8	Government payments farms ..	16 071	1.4
..... \$1,000 ..	110 608	1.8	..... \$1,000 ..	101 360	.8
\$50,000 to \$99,999 farms ..	6 779	1.8	Other farm-related income ¹ farms ..	10 424	2.2
..... \$1,000 ..	484 664	1.7	..... \$1,000 ..	57 614	3.9
\$100,000 to \$249,999 farms ..	6 567	1.2	Customwork and other agricultural services farms ..	5 368	3.0
..... \$1,000 ..	1 028 485	1.1	..... \$1,000 ..	32 882	5.5
\$250,000 to \$499,999 farms ..	2 212	—	Gross cash rent or share payments farms ..	2 328	4.7
..... \$1,000 ..	749 884	—	..... \$1,000 ..	14 514	6.6
\$500,000 or more farms ..	895	—	Forest products and Christmas trees farms ..	906	6.8
..... \$1,000 ..	1 025 870	—	..... \$1,000 ..	5 775	10.5
Sales by commodity or commodity group:			Other farm-related income sources farms ..	3 877	3.2
Crops, including nursery and greenhouse crops farms ..	33 080	1.4	..... \$1,000 ..	4 443	11.6
..... \$1,000 ..	2 128 048	.8	COMMODITY CREDIT CORPORATION LOANS		
Grains farms ..	29 556	1.4	Total farms ..	2 918	1.2
..... \$1,000 ..	1 633 835	.9	..... \$1,000 ..	95 177	.6
Corn for grain farms ..	23 751	1.4			
..... \$1,000 ..	744 995	.8			
Wheat farms ..	19 627	1.4			
..... \$1,000 ..	150 053	1.0			
Soybeans farms ..	24 681	1.4			
..... \$1,000 ..	722 497	.9			
Sorghum for grain farms ..	18	6.8			
..... \$1,000 ..	119	5.4			
Barley farms ..	201	2.3			
..... \$1,000 ..	397	2.3			
Oats farms ..	2 222	1.6			
..... \$1,000 ..	4 257	1.4			
Other grains farms ..	762	1.5			
..... \$1,000 ..	11 516	1.1			
Cotton and cottonseed farms ..	—	—			
..... \$1,000 ..	—	—			
Tobacco farms ..	1 760	1.7			
..... \$1,000 ..	26 098	1.8			
Hay, silage, and field seeds farms ..	7 170	1.4			
..... \$1,000 ..	59 153	1.3			
Vegetables, sweet corn, and melons farms ..	1 441	1.2			
..... \$1,000 ..	79 375	.4			
Fruits, nuts, and berries farms ..	707	1.4			
..... \$1,000 ..	25 448	.9			
Nursery and greenhouse crops farms ..	1 349	.8			
..... \$1,000 ..	286 409	.2			
Other crops farms ..	411	1.4			
..... \$1,000 ..	17 730	.6			
Livestock, poultry, and their products farms ..	21 016	1.4			
..... \$1,000 ..	1 668 639	.7			
Poultry and poultry products farms ..	1 414	1.3			
..... \$1,000 ..	378 670	.2			
Dairy products farms ..	6 178	1.5			
..... \$1,000 ..	535 247	.9			
Cattle and calves farms ..	15 946	1.4			
..... \$1,000 ..	378 062	.8			
Hogs and pigs farms ..	7 309	1.4			
..... \$1,000 ..	336 825	.8			
Sheep, lambs, and wool farms ..	1 925	1.6			
..... \$1,000 ..	5 773	1.6			
Other livestock and livestock products (see text) farms ..	1 608	1.6			
..... \$1,000 ..	34 062	.9			
Value of agricultural products sold directly to individuals for human consumption (see text) farms ..	2 153	1.4			
..... \$1,000 ..	18 045	.9			

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
LAND IN FARMS ACCORDING TO USE			FARMS BY TYPE OF ORGANIZATION		
Total cropland ----- farms ..	36 718	1.4	Individual or family (sole proprietorship) ----- farms ..	30 856	1.4
Harvested cropland ----- farms ..	10 240 713	1.0	Partnership ----- farms ..	8 693 274	1.2
acres ..	36 130	1.4	acres ..	5 456	1.4
farms ..	9 114 067	1.0	acres ..	2 332 659	.8
acres ..			Corporation:		
Cropland:			Family held ----- farms ..	1 369	.9
Pasture or grazing only ----- farms ..	11 520	1.5	acres ..	769 166	.5
acres ..	522 327	1.4	More than 10 stockholders ----- farms ..	51	2.8
Total woodland ----- farms ..	20 002	1.4	10 or less stockholders ----- farms ..	1 318	.9
acres ..	881 832	1.3	Other than family held ----- farms ..	119	1.9
Pastureland and rangeland other than cropland and woodland pastured ----- farms ..	6 776	1.5	acres ..	43 462	1.8
acres ..	397 035	1.2	More than 10 stockholders ----- farms ..	14	4.4
farms ..	25 119	1.4	10 or less stockholders ----- farms ..	105	2.1
acres ..	389 985	1.2	Other—cooperative, estate or trust, institutional, etc. ----- farms ..	157	2.3
Irrigated land ----- farms ..	1 238	.9	acres ..	71 004	1.3
acres ..	27 119	.8			
farms ..	1 222	.9	HIRED FARM LABOR		
acres ..	26 378	.8	Hired workers by days worked:		
farms ..	44	3.5	150 days or more ----- farms ..	6 426	23.6
acres ..	741	6.7	workers ..	17 502	11.0
Land under federal acreage reduction programs:			Less than 150 days ----- farms ..	12 987	35.6
Diverted under annual commodity programs ----- farms ..	12 900	1.3	workers ..	51 130	26.7
acres ..	162 462	.8			
Conservation Reserve or Wetlands Reserve Programs ----- farms ..	2 144	1.5	INJURIES AND DEATHS		
acres ..	98 241	1.4	Farm-related injuries:		
			Operator and family members ----- farms ..	417	1.9
			number ..	460	1.9
			Hired workers ----- farms ..	381	.9
			number ..	763	.5
			Farm-related deaths:		
			Operator and family members ----- farms ..	15	6.4
			number ..	(D)	(D)
			Hired workers ----- farms ..	3	—
			number ..	(D)	(D)
VALUE OF LAND AND BUILDINGS ¹			FARMS BY SIZE		
Estimated market value of land and buildings ----- farms ..	37 897	1.4	1 to 9 acres -----	1 543	1.2
\$1,000 ..	16 798 517	1.1	10 to 49 acres -----	2 403	1.3
Average per farm ----- dollars ..	443 268	1.8	50 to 69 acres -----	1 725	1.5
Average per acre ----- dollars ..	1 419	1.6	70 to 99 acres -----	3 939	1.5
			100 to 139 acres -----	4 842	1.6
			140 to 179 acres -----	3 905	1.7
			180 to 219 acres -----	3 051	1.8
			220 to 259 acres -----	2 344	1.8
			260 to 499 acres -----	7 479	1.6
			500 to 999 acres -----	4 686	1.1
			1,000 to 1,999 acres -----	1 707	—
			2,000 acres or more -----	333	—
			FARMS BY STANDARD INDUSTRIAL CLASSIFICATION		
			Cash grains (011) -----	20 094	1.5
			Field crops, except cash grains (013) -----	1 962	1.5
			Vegetables and melons (016) -----	451	1.5
			Fruits and tree nuts (017) -----	341	1.5
			Horticultural specialties (018) -----	1 147	.8
			General farms, primarily crop (019) -----	702	1.7
			Livestock, except dairy, poultry, and animal specialties (021) -----	6 898	1.4
			Dairy farms (024) -----	4 939	1.5
			Poultry and eggs (025) -----	566	1.1
			Animal specialties (027) -----	366	2.1
			General farms, primarily livestock and animal specialties (029) -----	491	1.9
			LIVESTOCK		
			Cattle and calves inventory ----- farms ..	16 073	1.4
			number ..	1 140 834	1.0
			Beef cows ----- farms ..	6 463	1.5
			number ..	167 099	1.4
			Milk cows ----- farms ..	6 308	1.5
			number ..	293 648	1.0
			Cattle and calves sold ----- farms ..	15 946	1.4
			number ..	685 251	.9
			\$1,000 ..	378 062	.8
			Hogs and pigs inventory ----- farms ..	6 935	1.4
			number ..	1 911 844	.8
			Hogs and pigs sold ----- farms ..	7 309	1.4
			number ..	3 862 754	.8
			\$1,000 ..	336 825	.8
			Sheep and lambs of all ages inventory ----- farms ..	1 938	1.6
			number ..	115 389	1.6
			Sheep and lambs sold ----- farms ..	1 850	1.6
			number ..	95 237	1.5
			Horses and ponies inventory ----- farms ..	3 835	1.7
			number ..	32 304	4.0
			Horses and ponies sold ----- farms ..	1 109	1.8
			number ..	5 562	2.0

See footnotes at end of table.

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
POULTRY			CROPS HARVESTED—Con.		
Chickens 3 months old or older inventory -----farms --	1 671	1.6	Tobacco ----- farms ..	1 763	1.7
-----number..	23 148 418	.1	-----acres..	83 292	1.8
Hens and pullets of laying age -----farms --	1 632	1.6	-----pounds..	16 697 236	1.8
-----number..	19 293 351	.1	Soybeans for beans ----- farms ..	24 733	1.4
Broilers and other meat-type chickens sold -----farms --	319	2.3	-----acres..	3 619 712	1.0
-----number..	25 233 810	1.7	-----bushels..	140 787 345	.9
CROPS HARVESTED			Irish potatoes ----- farms ..	180	2.2
Corn for grain or seed ----- farms --	28 820	1.4	-----acres..	5 833	.8
-----acres..	3 375 395	.9	-----cwt..	1 354 317	.7
-----bushels..	456 210 424	.9	Sugar beets for sugar ----- farms ..	227	1.6
Corn for silage or green chop ----- farms --	6 212	1.4	-----acres..	20 004	1.0
-----acres..	171 652	1.0	-----tons..	317 216	.9
-----tons, green..	2 907 244	.9	Hay—alfalfa, other tame, small grain, wild, grass		
Wheat for grain ----- farms --	19 834	1.4	-----farms ..	17 311	1.4
-----acres..	1 034 952	1.0	-----acres..	865 812	1.2
-----bushels..	51 880 979	1.0	-----tons, dry..	2 373 571	1.2
Oats for grain ----- farms --	5 930	1.6	-----farms ..	13 643	1.4
-----acres..	98 824	1.4	-----acres..	508 479	1.2
-----bushels..	6 977 858	1.4	-----tons, dry..	1 591 746	1.2
			Vegetables harvested for sale (see text) -----farms ..	1 443	1.2
			-----acres..	52 486	.6
			Land in orchards ----- farms ..	564	1.3
			-----acres..	12 143	1.2

¹Data are based on a sample of farms.

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

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

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

Item	All farms		Farms with sales of \$10,000 or more	
	Percent change from 1987 to 1992	Standard error of estimate	Percent change from 1987 to 1992	Standard error of estimate
Farms..... number..	-10.8	1.3	-4.8	1.6
Land in farms..... acres..	-5.0	1.1	-1.9	1.2
Average size of farm..... acres..	6.3	2.0	3.0	2.2
Estimated market value of land and buildings ¹ :				
Average per farm.....dollars..	28.3	2.5	23.0	2.8
Average per acre.....dollars..	21.4	2.3	19.5	2.4
Estimated market value of all machinery and equipment ¹ :				
Average per farm.....dollars..	22.5	2.5	14.4	2.7
Farms by size:				
1 to 9 acres.....	-9.8	1.6	-2.2	1.7
10 to 49 acres.....	-8.3	1.5	21.3	2.1
50 to 179 acres.....	-13.1	1.3	-2.1	1.9
180 to 499 acres.....	-13.7	1.6	-13.8	1.7
500 to 999 acres.....	-5.5	1.3	-5.4	1.3
1,000 to 1,999 acres.....	15.8	-	16.1	-
2,000 acres or more.....	44.2	-	43.5	-
Total cropland..... farms..	-10.8	1.3	-4.9	1.6
Harvested cropland..... acres..	-3.3	1.2	-1.0	1.2
Irrigated land..... farms..	-11.4	1.2	-5.2	1.6
..... acres..	5.3	1.3	8.3	1.3
Market value of agricultural products sold.....\$1,000..	14.0	1.0	15.3	1.0
Average per farm.....dollars..	27.8	2.1	21.0	2.3
Crops, including nursery and greenhouse crops.....\$1,000..	25.4	1.2	27.5	1.2
Livestock, poultry, and their products.....\$1,000..	2.1	.9	2.7	.9
Farms by value of sales:				
Less than \$2,500.....	-19.3	1.3	(X)	(X)
\$2,500 to \$4,999.....	-14.2	1.4	(X)	(X)
\$5,000 to \$9,999.....	-15.7	1.2	(X)	(X)
\$10,000 to \$24,999.....	-10.2	1.6	-10.2	1.6
\$25,000 to \$49,999.....	-7.2	2.0	-7.2	2.0
\$50,000 to \$99,999.....	-11.7	1.9	-11.7	1.9
\$100,000 to \$249,999.....	2.4	1.4	2.4	1.4
\$250,000 to \$499,999.....	42.1	.1	42.1	.1
\$500,000 or more.....	57.0	-	57.0	-
Total farm production expenses ¹.....\$1,000..	14.2	1.4	15.9	1.8
Average per farm.....dollars..	28.1	2.2	22.0	2.4
Net cash return from agricultural sales for the farm unit (see text) ¹.....farms..	-10.8	1.2	-5.0	1.7
.....\$1,000..	14.8	1.9	14.9	1.7
Average per farm.....dollars..	28.8	2.8	21.0	2.8
Operators by principal occupation:				
Farming.....	-12.5	1.3	-10.3	1.5
Other.....	-9.1	1.4	7.5	2.0
Operators by days worked off farm:				
Any.....	-11.8	4.5	-2.7	5.1
200 days or more.....	-10.4	4.6	4.3	5.5
Livestock and poultry:				
Cattle and calves inventory.....farms..	-14.9	1.2	-11.2	1.6
.....number..	-7.3	1.1	-6.0	1.2
Beef cows.....farms..	-13.0	1.3	-2.1	1.7
.....number..	-4.1	1.4	3.2	1.7
Milk cows.....farms..	-23.7	1.3	-19.3	1.5
.....number..	-14.9	1.1	-14.2	1.1
Cattle and calves sold.....farms..	-16.2	1.2	-12.2	1.5
.....number..	-14.2	.9	-12.9	.9
Hogs and pigs inventory.....farms..	-17.8	1.3	-18.2	1.4
.....number..	-4.9	1.0	-4.5	1.0
Hogs and pigs sold.....farms..	-18.0	1.3	-18.1	1.4
.....number..	3.3	1.1	3.5	1.1
Sheep and lambs inventory.....farms..	-21.2	1.2	-21.0	1.6
.....number..	-22.2	1.3	-24.1	1.6
Chickens 3 months old or older inventory.....farms..	-34.7	1.0	-31.7	1.3
.....number..	9.3	.2	9.6	.2
Broilers and other meat-type chickens sold.....farms..	1.3	2.5	9.6	3.4
.....number..	181.7	8.2	182.2	8.2
Selected crops harvested:				
Corn for grain or seed.....farms..	-18.3	1.3	-11.1	1.5
.....acres..	12.2	1.3	15.1	1.3
.....bushels..	31.5	1.4	34.2	1.5
Corn for silage or green chop.....farms..	-7.4	1.6	-7.3	1.6
.....acres..	7.8	1.3	8.2	1.3
.....tons, green..	10.3	1.3	10.7	1.3
Wheat for grain.....farms..	-7.8	1.4	-4.3	1.6
.....acres..	29.9	1.7	32.8	1.7
.....bushels..	27.2	1.6	29.8	1.6
Oats for grain.....farms..	-40.4	1.0	-39.2	1.1
.....acres..	-44.1	.9	-43.2	1.0
.....bushels..	-42.7	.9	-41.7	1.0
Soybeans for beans.....farms..	-13.5	1.3	-7.0	1.6
.....acres..	1.7	1.2	4.1	1.3
.....bushels..	9.4	1.3	11.7	1.3
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms..	-12.3	1.2	-7.7	1.6
.....acres..	-5.5	1.3	-3.0	1.4
.....tons, dry..	-8.9	1.2	-8.9	1.3
Vegetables harvested for sale (see text).....farms..	11.6	1.6	10.0	1.8
.....acres..	-6.9	.8	-7.6	.8

¹Data are based on a sample of farms.

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

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

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm ¹		Estimated market value of all machinery and equipment ¹	
	Total (number)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Total (acres)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Wayne	1 582	1.1	246 938	1.0	156	1.5	274 657	3.1	91 438	3.5
Williams	763	1.5	187 175	1.5	245	2.1	259 144	4.5	36 794	4.8
Wood	1 089	1.2	302 456	1.1	278	1.6	449 517	3.1	63 527	3.6
Wyandot	674	1.1	216 318	1.0	321	1.5	389 618	4.5	40 497	5.5
	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	
							Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Ohio	48 982	1.6	3 914 040	.7	55 353	1.3	70 695	1.1	3 119 014	.7
Adams	25 000	6.5	26 236	2.0	19 377	2.4	1 354	1.2	17 091	6.1
Allen	50 972	4.8	51 986	1.1	53 155	1.5	978	1.2	39 799	2.4
Ashland	52 023	6.4	46 579	1.1	48 876	1.6	952	1.2	37 878	2.2
Ashtabula	41 666	5.6	36 398	1.3	35 476	1.7	1 026	1.2	28 384	2.5
Athens	25 772	8.2	5 801	1.8	11 579	2.0	501	1.3	5 910	10.2
Auglaize	58 835	5.4	68 407	1.0	68 613	1.5	997	1.2	53 890	2.0
Belmont	29 926	11.3	11 023	2.0	18 281	2.2	603	1.2	8 400	9.7
Brown	36 065	5.2	34 754	1.4	23 278	1.8	1 493	1.3	25 025	3.4
Butler	46 158	6.8	34 463	1.3	38 207	1.7	902	1.1	27 745	5.4
Carroll	39 183	7.3	19 821	1.7	28 767	2.0	688	1.1	16 739	4.2
Champaign	55 666	4.1	58 514	.9	67 180	1.4	872	1.3	45 301	2.1
Clark	56 277	4.0	64 298	.7	87 839	1.2	732	1.2	53 091	1.3
Clermont	29 231	6.1	18 347	1.4	22 347	1.8	823	1.3	13 986	10.2
Clinton	62 229	5.5	57 606	.9	73 384	1.6	784	1.4	43 345	1.9
Columbiana	42 536	4.8	44 185	1.2	45 225	1.7	979	1.4	35 580	3.3
Coshocton	40 502	5.2	27 888	1.0	34 429	1.3	810	.9	23 528	2.2
Crawford	68 995	4.6	55 663	.9	72 667	1.6	766	1.1	45 581	1.9
Cuyahoga	34 111	4.4	15 916	.4	119 666	.8	132	1.8	13 696	1.1
Darke	58 853	3.7	199 283	.4	104 610	1.0	1 905	.9	162 263	.8
Defiance	48 228	7.0	39 647	1.0	47 767	1.5	830	1.3	29 831	3.2
Delaware	52 406	5.5	40 741	.8	59 216	1.4	686	1.1	33 384	3.5
Erie	68 016	5.7	26 099	1.1	64 284	1.5	406	1.3	20 887	2.6
Fairfield	48 790	4.7	43 477	1.1	41 093	1.5	1 059	1.1	35 843	2.4
Fayette	83 696	5.9	58 788	.7	105 355	1.1	557	1.1	41 772	1.4
Franklin	52 508	8.0	39 589	.6	81 796	1.2	483	1.1	31 810	2.1
Fulton	60 112	5.3	83 426	.8	98 496	1.7	848	1.5	70 549	1.2
Gallia	26 858	7.2	13 763	1.7	17 269	2.1	796	1.3	11 455	5.3
Geauga	32 931	9.7	16 086	1.6	25 862	2.0	623	1.2	13 542	4.9
Greene	53 032	5.6	51 295	.9	61 431	1.4	835	1.2	41 262	2.0
Guernsey	30 003	8.3	9 639	2.1	12 534	2.4	770	1.2	8 890	7.3
Hamilton	45 706	7.5	15 981	.9	51 058	1.3	313	1.2	12 851	2.8
Hancock	65 279	4.6	62 709	1.0	60 764	1.6	1 032	1.4	46 400	3.1
Hardin	60 951	4.7	54 161	1.3	60 447	2.1	896	1.4	41 341	2.4
Harrison	46 556	13.6	8 393	1.8	21 357	2.1	392	1.1	7 388	4.2
Henry	57 062	5.0	64 101	1.0	67 122	1.5	955	1.4	43 711	2.7
Highland	42 406	5.0	44 197	1.3	38 333	1.7	1 153	1.2	35 487	4.2
Hocking	16 691	10.8	2 653	2.4	7 473	2.6	355	1.2	2 538	10.2
Holmes	33 421	5.9	78 961	1.3	54 720	1.9	1 442	1.4	61 194	2.8
Huron	75 715	6.9	63 569	.8	75 408	1.5	842	1.4	52 879	1.7
Jackson	34 503	8.3	18 593	.8	48 292	1.2	385	1.1	13 883	3.7
Jefferson	28 093	7.5	6 420	2.0	17 028	2.2	376	1.2	4 841	10.1
Knox	39 015	4.9	57 980	1.2	52 613	1.8	1 103	1.4	47 355	2.1
Lake	42 760	6.4	49 766	.2	182 962	.7	271	1.1	39 656	1.1
Lawrence	20 799	6.8	4 794	1.9	9 364	2.3	511	1.2	5 196	19.3
Licking	41 714	5.3	94 131	.5	74 945	1.1	1 255	1.1	83 660	1.2
Logan	52 455	4.5	55 941	.8	69 234	1.3	807	1.1	46 240	1.9
Lorain	53 337	4.5	70 567	.4	83 021	1.0	849	1.1	59 386	1.2
Lucas	58 617	6.2	36 607	.6	89 068	1.0	411	1.0	29 214	2.8
Madison	66 473	5.4	67 433	.7	101 556	1.3	664	1.3	49 778	2.2
Mahoning	53 452	6.9	27 780	.8	47 896	1.1	579	1.0	23 452	2.4
Marion	86 374	7.2	49 552	.8	83 141	1.4	595	1.3	38 513	3.7
Medina	37 409	6.5	27 454	1.1	30 302	1.5	906	1.2	24 243	6.4
Meigs	30 854	7.8	10 325	1.6	20 944	1.8	494	1.1	9 458	8.1
Mercer	68 415	3.6	190 678	.4	136 883	1.2	1 394	1.3	150 923	.9
Miami	45 645	4.2	62 231	.9	61 190	1.3	1 016	1.2	43 439	1.8
Monroe	30 123	9.3	8 289	2.3	13 200	2.4	627	.9	7 046	10.4
Montgomery	38 731	7.0	31 417	1.0	38 978	1.3	806	1.0	24 184	4.1
Morgan	30 761	13.7	10 652	1.7	19 055	2.2	559	1.6	9 046	6.7
Morrow	45 455	6.5	35 500	1.8	47 587	3.0	746	2.7	29 261	3.7
Muskingum	31 687	5.6	25 390	1.0	24 158	1.4	1 052	1.0	23 277	2.6
Noble	24 459	6.5	4 822	2.1	8 752	2.4	550	1.2	4 934	7.1
Ottawa	58 154	6.2	23 766	1.0	45 529	1.5	522	1.2	19 731	3.2
Paulding	76 035	4.9	55 001	.6	88 568	1.1	620	1.1	37 057	1.9
Perry	34 299	9.6	14 135	1.6	24 371	2.0	579	1.3	11 695	10.4

See footnotes at end of table.

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

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

Geographic area	Farm production expenses ¹ —Con.											
	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Licking	494	8.4	12 946	1.8	808	4.9	31 845	1.0	717	5.1	2 486	4.2
Logan	235	10.8	2 992	10.7	368	7.6	8 961	6.3	627	4.0	2 761	5.7
Lorain	191	18.0	1 782	13.8	316	11.3	2 994	7.7	634	4.3	6 407	1.5
Lucas	48	31.5	954	40.4	90	23.8	1 023	26.6	311	6.4	2 465	2.8
Madison	214	13.6	3 611	4.8	322	9.1	3 605	12.4	537	4.4	3 592	5.2
Mahoning	198	13.9	1 783	15.1	316	9.7	3 923	7.4	393	6.1	776	5.4
Marion	148	17.4	2 418	5.8	251	11.9	3 917	4.2	491	4.6	2 692	3.7
Medina	275	12.6	1 190	23.0	482	6.8	3 780	10.4	535	5.7	1 111	8.7
Meigs	149	15.6	900	23.4	280	8.6	1 335	8.3	238	9.6	341	10.0
Mercer	593	5.6	20 196	3.0	805	3.9	69 737	1.3	1 166	2.6	3 837	2.5
Miami	283	10.3	3 405	5.9	389	8.7	4 196	7.0	879	3.2	2 911	3.9
Monroe	214	12.8	613	18.1	469	5.5	2 306	21.2	184	12.1	159	15.0
Montgomery	171	16.9	934	8.6	309	10.7	1 816	7.6	647	4.0	2 349	3.4
Morgan	228	11.7	1 653	12.4	381	6.7	1 807	5.3	277	9.1	216	7.6
Morrow	272	13.6	2 420	6.3	390	9.3	3 051	5.0	553	5.1	2 085	6.6
Muskingum	374	11.2	3 993	3.7	662	5.8	4 850	4.2	530	7.5	906	8.4
Noble	194	13.2	520	14.2	367	6.7	851	15.0	187	12.3	79	23.6
Ottawa	46	32.0	182	60.2	81	23.9	627	14.7	394	6.0	1 310	7.8
Paulding	117	20.1	3 147	8.9	161	15.6	5 199	3.5	528	4.4	2 510	6.2
Perry	207	14.9	1 145	19.3	459	5.1	1 349	17.0	333	9.2	639	15.0
Pickaway	199	14.1	2 394	8.6	299	9.8	4 288	15.6	567	3.8	3 935	3.2
Pike	127	18.0	904	35.3	207	11.4	1 723	23.7	197	9.5	288	10.0
Portage	235	12.5	1 345	14.4	374	7.8	4 111	4.9	411	6.4	898	5.6
Preble	386	9.6	5 591	6.1	604	6.6	6 603	3.6	860	3.5	3 039	7.8
Putnam	364	8.5	6 425	10.3	462	7.1	11 146	5.5	1 355	2.0	4 538	6.1
Richland	400	8.7	4 885	11.4	569	5.6	5 121	4.8	664	4.7	1 869	4.5
Ross	306	11.3	2 889	13.1	525	5.9	3 062	11.7	583	4.3	2 677	2.5
Sandusky	181	15.7	1 102	24.9	234	13.8	1 664	8.5	747	2.8	3 832	7.8
Scioto	139	18.3	1 527	7.4	365	7.6	4 330	6.1	363	7.6	487	10.0
Seneca	362	10.2	4 907	10.1	495	8.5	5 828	8.4	1 088	2.9	3 921	4.3
Shelby	306	9.7	3 885	8.3	453	7.2	9 381	5.3	882	2.5	2 760	3.5
Stark	391	8.6	4 591	8.9	617	5.9	13 894	3.5	739	4.0	1 584	3.9
Summit	31	36.4	353	55.3	112	13.5	531	14.4	129	11.6	453	7.6
Trumbull	317	9.3	1 143	12.2	492	6.4	2 975	7.4	553	4.8	1 187	6.3
Tuscarawas	422	9.2	4 484	7.6	595	6.2	10 075	6.0	525	6.5	902	12.8
Union	198	15.9	4 833	2.3	340	10.4	11 287	1.4	604	4.5	2 519	3.8
Van Wert	167	14.4	1 764	16.4	212	12.2	3 239	6.2	713	2.9	3 148	6.2
Vinton	63	26.5	(D)	(D)	115	15.6	161	20.1	76	25.3	79	41.5
Warren	224	13.8	1 423	11.0	378	8.8	2 731	5.5	542	5.4	2 826	2.4
Washington	336	9.4	2 119	11.8	540	5.8	3 156	5.8	393	8.1	453	7.9
Wayne	815	5.2	12 970	5.1	1 118	3.3	37 008	3.3	1 207	2.7	3 560	3.3
Williams	168	16.0	7 519	3.8	296	11.5	6 057	11.0	652	3.3	2 544	3.9
Wood	193	14.0	4 281	3.3	255	12.6	5 557	3.5	981	2.7	5 565	3.5
Wyandot	138	18.5	2 523	14.2	257	11.9	4 600	8.5	600	3.5	2 573	4.9

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)
Ohio	52 433	1.2	305 407	1.1	51 627	1.2	189 954	1.1	67 785	1.1	176 670	1.0
Adams	1 154	2.9	1 898	7.2	982	4.1	688	9.1	1 288	2.0	1 183	5.9
Allen	792	3.0	5 446	5.2	828	2.9	3 293	5.9	921	1.7	2 572	3.5
Ashland	726	4.4	3 183	4.5	743	4.3	1 838	4.5	914	2.2	2 380	4.1
Ashtabula	704	4.6	2 054	7.7	624	5.1	772	6.7	995	1.8	1 458	4.5
Athens	301	7.8	484	13.2	226	10.7	91	12.0	454	3.4	382	8.8
Auglaize	795	3.7	5 932	4.5	843	3.6	3 106	4.7	973	1.8	2 809	3.8
Belmont	339	8.3	436	17.6	247	10.7	172	18.5	580	2.3	646	8.5
Brown	1 262	2.7	4 696	10.9	1 223	3.0	2 091	8.1	1 432	1.9	2 089	6.1
Butler	526	5.8	2 753	6.0	628	3.7	1 617	8.7	854	2.0	1 626	8.5
Carroll	425	6.2	1 045	9.0	340	7.3	491	10.1	652	2.5	1 035	5.2
Champaign	665	4.2	5 256	3.0	659	4.2	4 153	4.2	841	2.0	2 890	3.6
Clark	543	4.4	4 922	3.0	526	4.9	3 312	3.5	720	1.7	2 724	3.0
Clermont	512	6.0	1 662	3.7	508	6.3	907	4.1	767	2.3	874	5.0
Clinton	648	4.2	6 797	5.0	602	4.6	3 848	3.3	771	1.7	3 016	3.8
Columbiana	640	5.3	2 378	8.1	657	5.0	1 198	14.1	908	2.5	2 041	3.0
Coshocton	561	5.4	2 191	7.0	591	5.5	912	7.7	779	2.1	1 608	4.5
Crawford	643	3.6	6 797	2.9	616	4.1	3 995	4.1	748	1.9	3 040	3.1
Cuyahoga	89	4.8	123	6.1	95	4.2	84	23.3	126	2.3	1 207	1.4
Darke	1 520	2.6	9 014	2.9	1 516	2.6	5 509	3.2	1 802	1.4	5 500	2.8
Defiance	680	4.1	3 600	7.0	680	3.7	3 161	5.9	804	2.2	1 795	6.3
Delaware	390	6.1	3 712	5.0	441	5.4	2 664	7.1	660	2.1	2 168	6.0
Erie	332	3.9	2 828	4.3	353	4.0	1 721	5.6	390	2.6	1 566	6.5
Fairfield	767	4.1	4 618	3.9	717	4.3	2 858	4.4	1 024	1.7	2 560	4.1
Fayette	430	5.0	6 412	2.9	422	4.6	4 053	3.8	551	1.4	2 852	2.4

See footnotes at end of table.

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

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

Geographic area	Farm production expenses ¹ —Con.											
	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)
Franklin	302	7.3	2 271	7.0	327	8.0	1 627	9.8	440	2.9	1 819	2.4
Fulton	718	2.9	6 575	3.3	709	3.8	4 091	3.5	825	1.9	3 688	4.9
Gallia	630	4.2	873	7.4	509	6.6	247	18.2	756	2.3	746	8.2
Geauga	458	5.8	621	6.9	441	6.5	235	8.4	583	3.2	786	6.7
Greene	626	4.1	5 142	2.4	622	4.7	3 077	3.8	815	1.6	2 488	2.3
Guernsey	446	7.8	585	9.1	407	8.7	167	11.6	729	2.4	570	9.7
Hamilton	163	12.5	539	10.3	234	5.9	332	10.2	279	5.0	867	2.2
Hancock	911	2.5	8 081	4.5	914	3.2	4 609	5.5	987	2.2	3 469	3.6
Hardin	737	3.1	6 027	4.0	780	3.4	4 131	4.6	872	2.0	2 832	3.4
Harrison	210	11.1	395	11.9	206	11.5	161	5.0	362	4.2	501	7.8
Henry	896	2.2	6 762	7.0	865	2.7	4 122	5.1	947	1.6	2 758	4.0
Highland	937	3.5	6 102	5.8	894	4.0	3 500	8.6	1 124	1.7	2 408	4.8
Hocking	198	11.9	246	17.1	158	14.3	106	22.1	341	2.9	216	10.8
Holmes	1 057	3.8	1 860	4.6	1 097	3.6	986	4.2	1 402	1.8	2 194	3.5
Huron	606	6.4	5 066	4.6	627	5.5	3 948	4.0	823	2.0	3 219	3.2
Jackson	223	10.3	525	12.0	131	14.4	122	9.7	365	3.5	823	6.2
Jefferson	230	9.6	343	16.0	195	11.7	127	11.2	352	3.3	427	11.1
Knox	674	5.1	3 530	6.1	753	4.5	2 463	8.0	1 019	2.6	2 572	6.4
Lake	194	7.2	706	4.3	213	6.4	786	11.4	269	1.1	1 063	4.6
Lawrence	359	7.0	314	15.7	257	9.6	77	16.9	479	2.6	369	10.3
Licking	764	4.4	3 807	4.9	831	4.0	2 740	5.0	1 218	1.6	2 815	2.9
Logan	608	4.2	4 860	3.0	627	3.9	3 223	4.6	774	1.8	2 625	3.8
Lorain	617	4.9	3 022	6.2	638	5.1	2 637	5.6	819	2.2	4 348	1.8
Lucas	282	6.5	2 264	7.3	360	4.7	1 876	6.9	394	2.8	2 148	2.6
Madison	516	4.9	7 640	3.7	528	4.4	4 327	4.2	640	2.3	3 004	3.3
Mahoning	380	6.8	1 458	7.2	419	6.5	782	9.7	560	2.4	1 102	4.4
Marion	464	5.4	5 335	5.8	507	4.6	3 893	5.7	595	1.3	2 667	4.6
Medina	616	5.0	1 758	6.2	615	5.4	893	7.3	820	2.9	1 466	6.4
Meigs	321	6.9	537	16.5	321	6.6	232	23.3	475	2.2	667	7.6
Mercer	1 127	2.8	8 083	3.3	1 158	2.7	3 703	3.0	1 354	1.6	4 816	2.8
Miami	829	3.7	5 283	4.8	844	3.3	3 400	3.8	1 002	1.5	2 942	3.6
Monroe	385	7.5	437	11.7	267	10.9	104	29.6	598	2.4	515	8.4
Montgomery	556	5.4	2 531	6.8	617	4.9	1 675	5.9	789	1.5	1 412	6.0
Morgan	337	7.3	679	18.5	310	8.5	319	14.0	526	2.6	596	12.5
Morrow	584	5.7	3 960	4.0	567	5.7	3 014	7.2	718	3.7	1 743	5.8
Muskingum	584	6.6	2 090	7.5	577	6.4	948	10.1	1 018	2.0	1 313	6.6
Noble	286	9.7	269	16.1	214	13.2	175	23.7	494	3.1	384	9.6
Ottawa	411	5.4	2 305	7.3	466	4.1	2 434	4.6	522	1.2	1 251	3.2
Paulding	513	4.6	4 146	4.1	502	4.6	3 082	3.7	615	1.3	2 275	3.9
Perry	384	7.4	1 411	17.5	345	8.7	681	16.2	574	1.6	819	12.0
Pickaway	562	3.8	8 255	5.9	541	4.4	4 233	3.6	644	2.1	3 058	3.7
Pike	265	7.9	950	14.4	252	7.9	411	6.8	345	4.8	526	10.3
Portage	455	5.7	1 514	5.8	420	6.6	866	12.3	669	2.1	1 066	3.8
Preble	836	3.4	6 058	4.3	857	3.1	3 710	4.6	981	2.4	3 157	3.9
Putnam	1 311	2.4	7 846	4.0	1 235	2.8	5 059	4.7	1 439	1.2	4 411	4.0
Richland	691	4.8	3 972	5.7	706	4.8	2 352	8.8	911	1.6	2 346	3.9
Ross	584	4.7	4 417	3.2	654	4.0	2 726	3.4	786	2.0	2 714	2.7
Sandusky	738	3.0	6 365	4.4	708	3.4	5 375	5.8	801	2.3	2 626	5.3
Scioto	455	5.7	808	8.2	397	7.8	583	9.4	606	2.0	643	9.3
Seneca	1 100	3.1	7 612	4.2	1 024	3.5	4 936	4.6	1 225	1.9	3 721	3.7
Shelby	872	2.6	5 501	3.6	850	2.9	3 099	4.7	946	1.7	2 691	2.7
Stark	803	3.8	2 555	3.9	791	3.9	1 256	4.5	1 078	1.6	2 112	3.1
Summit	156	10.2	303	15.8	142	9.3	219	18.1	245	4.2	542	5.6
Trumbull	611	4.2	2 104	6.7	576	5.1	944	8.5	823	1.5	1 331	3.8
Tuscarawas	534	6.1	1 727	6.4	492	7.6	974	12.7	859	2.3	1 761	3.7
Union	584	5.2	4 580	5.1	629	4.6	3 434	4.5	794	1.6	3 000	5.7
Van Wert	695	3.0	6 044	5.7	675	3.5	4 095	6.4	743	2.4	3 048	5.0
Vinton	99	19.0	252	25.6	97	18.7	171	48.1	205	1.2	216	18.7
Warren	588	4.6	2 853	3.7	616	4.7	2 142	4.0	767	1.9	1 603	3.5
Washington	578	5.4	1 049	9.0	488	7.0	534	22.4	809	2.5	997	8.5
Wayne	1 180	2.9	5 386	4.0	1 205	3.0	3 212	4.6	1 486	1.7	4 036	2.2
Williams	593	4.2	4 291	5.9	627	4.5	2 768	4.6	737	2.5	2 084	5.8
Wood	970	2.8	8 520	3.4	956	3.0	5 623	3.6	1 039	1.9	3 682	4.1
Wyandot	590	3.3	5 768	5.1	570	4.1	3 641	5.0	619	3.0	2 555	3.2

Geographic area	Farm production expenses ¹ —Con.											
	Electricity				Hired farm labor				Contract labor			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Ohio	51 576	1.2	54 020	1.1	20 559	1.6	259 501	.6	4 919	3.1	16 012	3.0
Adams	822	4.9	355	7.9	622	6.9	1 215	23.4	208	15.4	213	23.8
Allen	754	4.6	672	8.5	122	14.9	1 873	10.7	51	29.1	110	16.4
Ashland	736	4.2	879	4.5	343	9.3	2 796	4.4	78	25.9	142	21.4
Ashtabula	825	3.8	824	3.8	297	9.3	3 628	3.4	115	15.7	420	17.5

See footnotes at end of table.

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

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

Geographic area	Farm production expenses ¹ —Con.											
	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)
Pickaway	617	3.1	3 836	4.9	287	10.3	735	11.9	359	7.6	3 814	7.2
Pike	290	7.8	662	12.4	79	22.5	111	39.8	101	20.2	569	25.1
Portage	591	3.8	1 688	7.6	280	9.6	313	15.7	238	10.7	1 544	10.7
Preble	934	3.3	3 906	6.0	516	7.1	830	7.9	507	7.5	3 713	7.5
Putnam	1 267	2.3	5 394	4.5	653	6.8	1 033	8.1	785	5.2	4 501	5.6
Richland	828	3.0	2 883	7.2	343	10.4	402	17.6	425	8.9	2 518	8.2
Ross	697	3.8	2 958	4.2	305	10.3	610	10.4	379	7.9	3 101	9.1
Sandusky	731	3.4	3 555	5.4	470	7.7	1 332	9.1	503	7.2	4 350	8.9
Scioto	535	4.4	1 029	11.3	147	18.3	95	17.5	217	15.0	727	16.9
Seneca	1 113	3.0	4 727	4.2	620	7.1	1 007	7.3	648	6.0	4 895	7.1
Shelby	884	2.6	3 736	4.4	407	8.2	735	11.6	501	6.4	3 479	7.4
Stark	974	2.8	3 509	4.4	329	9.3	466	9.4	414	8.8	2 274	9.1
Summit	204	7.4	713	9.9	42	26.9	71	28.4	42	25.3	245	15.1
Trumbull	782	2.3	2 152	5.6	314	9.5	446	15.8	297	9.5	1 592	9.2
Tuscarawas	768	3.7	2 756	5.5	330	10.5	585	14.7	293	10.5	1 976	7.7
Union	683	4.0	3 450	3.8	339	10.0	610	10.1	379	8.8	3 582	6.5
Van Wert	711	2.9	3 037	4.1	335	8.6	724	9.6	462	6.2	3 384	5.0
Vinton	164	9.5	245	28.5	40	33.8	15	64.0	56	27.3	239	36.8
Warren	634	4.5	2 034	3.8	210	12.4	673	6.5	238	11.5	2 105	8.8
Washington	731	3.4	1 614	7.3	167	14.9	139	11.7	303	9.8	947	9.7
Wayne	1 403	2.2	7 722	3.6	753	5.6	1 403	7.1	806	4.7	7 284	5.8
Williams	647	4.2	2 588	7.2	368	8.9	602	10.9	430	7.5	3 218	7.9
Wood	897	3.0	4 842	3.4	541	6.9	1 050	9.1	616	6.0	4 318	4.7
Wyandot	591	3.2	2 893	4.4	346	9.0	790	13.7	322	8.6	2 393	9.6

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)
Ohio	19 904	1.7	216 114	1.2	64 108	1.1	86 406	1.2	64 754	1.1	314 430	.8
Adams	147	17.4	268	17.1	1 210	2.7	745	5.6	1 155	2.8	2 163	8.2
Allen	340	9.6	3 789	9.0	866	3.3	999	5.1	902	2.2	2 925	5.8
Ashland	300	10.5	1 825	7.7	875	2.7	1 210	7.0	876	2.5	4 054	4.3
Ashtabula	255	10.2	596	16.4	962	2.2	1 127	4.3	941	2.4	3 586	4.3
Athens	120	17.9	130	25.3	492	1.6	516	6.5	457	3.4	734	12.6
Auglaize	336	9.5	3 802	10.8	890	2.7	1 271	5.4	941	2.2	4 151	5.7
Belmont	118	19.2	142	12.3	585	2.0	483	8.4	553	3.0	1 109	14.3
Brown	273	11.6	1 431	11.3	1 343	2.4	1 204	5.9	1 324	2.5	2 235	6.4
Butler	214	13.1	1 675	10.4	810	3.0	1 135	5.8	845	2.0	1 923	5.5
Carroll	173	13.7	502	14.2	657	2.3	668	5.9	597	3.5	1 664	4.9
Champaign	298	9.8	6 205	5.1	764	3.3	1 041	6.0	776	3.1	3 963	3.4
Clark	312	7.9	5 187	3.7	627	3.6	984	4.7	696	2.4	4 349	2.2
Clermont	107	20.0	916	5.8	771	2.6	903	11.3	733	3.2	1 288	6.5
Clinton	241	9.5	4 522	3.2	670	3.6	1 063	5.4	714	2.6	3 138	4.1
Columbiana	233	11.2	1 228	13.6	891	2.7	1 023	4.2	907	2.4	4 369	3.1
Coshocton	169	12.7	1 178	9.6	782	1.9	874	4.1	767	2.3	2 065	5.6
Crawford	275	7.9	5 714	5.4	655	3.4	981	4.0	732	2.2	3 632	4.9
Cuyahoga	18	9.1	42	11.2	116	2.7	325	4.7	130	1.8	2 257	.5
Darke	559	6.9	6 127	5.2	1 734	1.9	2 484	3.5	1 754	1.7	13 422	1.7
Defiance	234	10.9	1 374	9.1	762	2.9	901	4.9	724	3.2	1 994	8.1
Delaware	261	10.5	4 637	7.3	617	3.2	1 203	6.3	666	1.7	3 252	5.7
Erie	226	8.9	2 860	6.5	385	3.0	736	14.2	399	1.8	2 044	4.3
Fairfield	251	11.0	2 749	6.0	936	3.0	1 324	6.6	983	2.1	3 174	5.4
Fayette	178	8.8	5 180	3.9	482	3.0	976	4.0	537	2.4	3 258	2.7
Franklin	147	14.8	2 325	10.9	430	4.2	920	7.8	430	3.5	5 836	2.4
Fulton	433	7.0	9 422	4.8	741	3.7	1 266	4.1	803	2.3	4 416	2.7
Gallia	85	22.8	182	24.9	770	1.9	539	8.5	663	3.8	1 191	9.5
Geauga	226	11.7	347	18.2	566	3.0	1 003	11.5	569	3.6	1 536	9.6
Greene	226	10.7	4 439	3.9	727	3.1	1 319	5.2	800	1.9	4 657	5.6
Guernsey	185	16.1	172	20.4	737	2.1	677	5.2	705	3.2	1 109	6.2
Hamilton	67	21.9	333	19.8	277	5.3	559	5.1	272	6.0	1 679	3.0
Hancock	340	9.2	4 945	9.2	920	3.0	1 507	7.5	1 010	1.8	3 667	11.7
Hardin	352	9.0	4 332	5.9	773	3.4	1 169	5.6	824	2.4	3 116	6.2
Harrison	81	21.8	297	5.4	385	1.7	372	8.9	349	4.8	877	6.8
Henry	333	9.6	4 690	6.9	797	3.7	1 218	5.6	900	2.1	3 011	8.2
Highland	292	11.3	3 219	12.8	972	3.2	999	5.4	1 056	2.6	2 718	5.0
Hocking	44	36.3	113	32.6	348	2.1	337	11.0	306	5.3	365	17.8
Holmes	265	12.6	1 412	7.9	1 329	2.3	1 903	5.0	1 372	2.0	5 539	6.7
Huron	312	10.0	4 238	6.6	781	2.8	1 052	3.8	790	3.0	9 317	2.0
Jackson	77	22.3	112	14.4	370	2.3	348	9.4	332	4.9	2 972	3.6
Jefferson	38	27.6	86	40.5	369	1.9	240	11.4	330	4.5	730	20.8
Knox	278	9.8	2 101	7.5	1 037	2.4	1 531	7.0	1 011	2.7	4 071	3.0
Lake	82	14.7	481	3.4	245	3.5	407	6.7	251	3.5	7 798	1.0
Lawrence	75	25.4	87	37.4	445	3.8	361	18.4	438	4.3	705	26.1

See footnotes at end of table.

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

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

Geographic area	Livestock and poultry — Con.											
	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Pickaway	26	5.3	1 311	4.9	101	2.7	44 276	1.8	40	4.7	1 388	6.8
Pike	19	7.5	954	6.5	31	6.0	3 908	3.8	3	21.0	(D)	(D)
Portage	76	2.9	3 419	2.0	51	4.0	6 541	2.6	22	6.3	955	11.0
Preble	62	3.6	2 736	3.3	221	1.9	67 380	1.7	71	3.4	1 557	4.8
Putnam	63	3.1	2 447	3.0	265	1.6	96 406	1.2	48	3.9	1 923	4.8
Richland	152	3.0	5 641	2.8	148	2.7	21 432	2.9	55	4.4	2 931	8.8
Ross	27	6.0	1 356	3.9	110	3.0	19 940	2.5	50	4.7	1 865	7.3
Sandusky	28	4.3	1 189	3.8	100	2.9	17 052	3.1	34	5.2	865	6.9
Scioto	22	7.7	971	7.8	45	5.4	1 377	8.0	11	10.2	224	14.9
Seneca	50	3.8	1 659	3.1	187	2.2	44 600	1.3	102	3.1	6 002	5.8
Shelby	137	2.0	7 325	1.6	174	2.2	41 442	1.8	49	3.6	2 271	5.0
Stark	188	2.0	10 047	1.4	116	2.7	7 218	2.6	63	3.7	1 708	4.7
Summit	7	10.9	132	8.6	14	8.9	873	5.5	14	9.1	243	9.8
Trumbull	158	2.5	5 398	2.3	92	3.0	4 084	5.5	23	5.6	428	6.8
Tuscarawas	206	2.3	9 940	1.5	141	2.9	11 418	4.5	49	4.5	2 643	7.4
Union	53	3.3	2 744	2.2	114	2.7	22 857	2.6	78	3.6	4 916	3.6
Van Wert	21	4.6	819	3.7	72	2.9	16 713	2.1	29	4.3	1 060	3.9
Vinton	11	10.0	196	13.9	36	4.9	2 945	12.6	10	9.7	269	9.5
Warren	21	4.5	2 062	1.1	82	2.9	19 782	1.8	53	3.9	1 101	5.6
Washington	60	3.6	2 647	2.8	90	3.0	11 868	3.1	40	4.5	1 683	5.4
Wayne	635	1.6	31 879	1.1	318	2.0	60 777	1.3	118	2.7	3 436	4.9
Williams	27	5.1	1 208	3.5	104	2.9	26 705	1.9	35	5.1	2 510	5.0
Wood	15	6.0	558	5.6	91	2.8	13 392	2.8	43	4.5	1 683	6.1
Wyandot	27	4.5	1 311	3.7	72	3.0	33 766	.9	56	3.8	2 547	7.7

Geographic area	Livestock and poultry — Con.							
	Hens and pullets of laying age inventory				Broilers and other meat-type chickens sold			
	Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
Ohio	3 830	1.1	19 356 658	.1	532	1.8	25 257 739	1.7
Adams	59	4.2	7 282	14.7	—	—	—	—
Allen	21	6.4	71 260	7.3	4	13.4	376	15.5
Ashland	98	3.3	19 508	40.9	5	13.3	900	18.2
Ashtabula	75	3.8	2 365	4.9	5	12.9	225	13.2
Athens	33	5.1	2 590	17.5	2	23.2	(D)	(D)
Auglaize	21	6.9	195 452	1.0	1	39.7	(D)	(D)
Belmont	33	5.3	687	7.9	—	—	—	—
Brown	56	4.4	2 090	9.3	1	23.9	(D)	(D)
Butler	59	4.1	1 902	6.2	3	18.0	(D)	(D)
Carroll	39	5.0	(D)	(D)	4	18.2	(D)	(D)
Champaign	34	5.3	775	7.1	5	15.9	138	18.1
Clark	27	6.1	1 270	10.7	3	22.5	78	30.0
Clermont	41	5.3	1 257	10.6	4	16.1	548	17.6
Clinton	26	6.4	1 531	19.0	2	24.1	(D)	(D)
Columbiana	52	4.5	(D)	(D)	5	14.9	200	16.1
Coshocton	63	3.4	89 523	.1	6	11.5	(D)	(D)
Crawford	31	5.2	(D)	(D)	4	13.7	(D)	(D)
Cuyahoga	11	8.1	727	9.7	2	21.1	(D)	(D)
Darke	83	2.8	5 701 964	(L)	18	7.0	(D)	(D)
Defiance	22	6.3	538	8.8	6	11.5	(D)	(D)
Delaware	25	7.6	846	13.3	3	18.3	167	20.3
Erie	22	6.3	2 224	18.6	3	18.1	(D)	(D)
Fairfield	74	3.6	(D)	(D)	9	10.3	2 005	12.0
Fayette	11	9.0	216	12.6	1	27.6	(D)	(D)
Franklin	21	6.3	4 008	2.8	1	—	(D)	(D)
Fulton	21	6.7	25 321	9.1	7	11.5	1 876	12.2
Gallia	28	7.3	572	9.2	2	20.4	(D)	(D)
Geauga	73	3.9	3 119	7.4	10	10.4	2 257	20.0
Greene	46	4.5	1 544	7.4	5	12.8	933	21.4
Guernsey	57	3.9	1 616	5.2	1	27.8	(D)	(D)
Hamilton	20	7.5	755	10.5	1	25.8	(D)	(D)
Hancock	25	5.7	(D)	(D)	2	26.1	(D)	(D)
Hardin	29	6.0	1 831	9.2	4	15.4	680	13.6
Harrison	26	5.5	651	7.0	2	14.6	(D)	(D)
Henry	22	5.8	29 066	7.8	1	32.5	(D)	(D)
Highland	33	5.3	716	7.4	1	33.9	(D)	(D)
Hocking	40	5.2	1 581	8.3	—	—	—	—
Holmes	248	2.3	210 795	.9	100	3.3	9 346 377	3.0
Huron	45	4.8	1 174	6.1	8	11.9	593	13.0
Jackson	12	9.9	270	11.2	—	—	—	—
Jefferson	29	5.6	874	8.7	—	—	—	—
Knox	105	3.4	17 508	1.2	19	7.9	87 474	26.8
Lake	12	8.0	2 270	15.5	1	—	(D)	(D)
Lawrence	18	7.5	414	12.8	—	—	—	—

See footnotes at end of table.

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

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

Geographic area	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)					
Licking	63	3.9	(D)	(D)	1	–	(D)	(D)					
Logan	39	4.8	(D)	(D)	5	15.4	646	18.3					
Lorain	46	4.5	6 633	18.3	8	10.0	727	16.0					
Lucas	7	11.4	206	14.0	2	22.9	(D)	(D)					
Madison	20	7.0	526	8.5	2	20.8	(D)	(D)					
Mahoning	43	4.0	(D)	(D)	6	10.8	903	14.3					
Marion	21	6.6	14 734	.5	–	–	–	–					
Medina	81	3.3	3 257	6.4	14	7.9	2 264	15.1					
Meigs	28	5.5	(D)	(D)	1	33.0	(D)	(D)					
Mercer	105	1.6	3 967 791	.3	4	6.3	(D)	(D)					
Miami	37	5.0	4 139	5.1	7	10.6	649	16.9					
Monroe	51	3.9	1 742	6.4	1	33.9	(D)	(D)					
Montgomery	51	4.1	(D)	(D)	12	9.4	792	13.8					
Morgan	36	5.7	883	7.5	3	21.3	(D)	(D)					
Morrow	37	6.9	1 244	7.6	1	38.4	(D)	(D)					
Muskingum	49	4.6	2 163	7.0	–	–	–	–					
Noble	46	5.0	1 140	7.9	–	–	–	–					
Ottawa	8	9.5	192	14.7	3	13.9	(D)	(D)					
Paulding	10	9.2	250	13.3	2	25.0	(D)	(D)					
Perry	40	5.4	2 100	7.8	–	–	–	–					
Pickaway	22	6.7	931	11.4	1	34.9	(D)	(D)					
Pike	13	8.2	(D)	(D)	–	–	–	–					
Portage	50	4.1	(D)	(D)	2	20.5	(D)	(D)					
Preble	45	4.6	6 365	1.8	6	12.5	357	18.8					
Putnam	23	5.6	220 812	1.1	3	13.9	955	17.0					
Richland	74	4.0	3 841	9.1	13	8.6	912 791	(L)					
Ross	42	5.1	1 901	7.0	2	24.1	(D)	(D)					
Sandusky	35	5.2	1 452	6.8	10	10.4	1 810	13.4					
Scioto	35	6.4	(D)	(D)	2	29.0	(D)	(D)					
Seneca	43	4.5	66 304	2.4	8	12.3	1 877	16.3					
Shelby	26	5.2	131 818	(L)	3	17.0	115	16.1					
Stark	78	3.4	23 969	.9	25	5.7	7 554 676	.8					
Summit	25	6.3	(D)	(D)	3	20.6	(D)	(D)					
Trumbull	77	3.3	4 135	7.6	7	10.2	515	10.6					
Tuscarawas	69	3.8	(D)	(D)	35	5.3	3 003 899	5.3					
Union	25	6.0	(D)	(D)	2	29.2	(D)	(D)					
Van Wert	14	6.8	259 871	(L)	2	25.6	(D)	(D)					
Vinton	14	8.6	350	10.9	1	29.0	(D)	(D)					
Warren	44	4.4	1 420	7.2	8	11.8	970	27.0					
Washington	52	4.2	2 129	7.8	3	22.7	(D)	(D)					
Wayne	210	2.2	385 501	.1	41	4.5	3 482 269	4.4					
Williams	20	6.7	(D)	(D)	7	10.6	1 460	9.7					
Wood	26	5.7	(D)	(D)	10	9.5	1 297	11.4					
Wyandot	24	5.9	518	8.3	5	14.2	964	15.5					
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)	
Ohio	37 341	1.3	3 486 744	.9	467 163 760	.9	6 725	1.4	176 367	1.0	2 969 730	.9	
Adams	456	2.0	15 792	2.4	1 702 270	2.4	59	3.9	1 154	3.7	20 226	3.8	
Allen	695	1.3	60 755	1.4	8 293 660	1.3	28	3.4	916	2.7	14 803	3.5	
Ashland	619	1.4	40 837	1.4	4 677 978	1.5	184	2.2	5 929	1.7	83 089	1.7	
Ashtabula	378	1.7	17 414	1.6	1 619 075	1.7	165	2.6	4 586	2.4	57 001	2.6	
Athens	95	2.7	2 384	5.5	233 560	4.7	35	3.2	1 146	2.9	13 931	3.3	
Auglaize	706	1.4	57 707	1.3	7 470 577	1.3	163	2.2	4 216	1.7	74 449	1.7	
Belmont	140	2.4	2 213	3.0	202 824	3.2	41	4.5	710	5.4	8 935	5.4	
Brown	435	1.7	27 524	1.7	3 451 775	1.7	37	4.1	1 207	4.7	22 836	4.7	
Butler	415	1.7	38 633	1.6	5 222 767	1.6	75	3.1	2 013	2.8	37 929	2.7	
Carroll	321	1.8	12 645	1.9	1 321 554	2.0	96	3.0	2 329	2.3	34 001	2.6	
Champaign	551	1.5	85 199	1.0	11 898 816	1.0	78	2.6	2 902	2.9	53 886	2.9	
Clark	404	1.5	65 699	1.0	9 841 579	1.0	52	3.2	1 697	3.4	31 661	2.1	
Clermont	216	2.1	16 906	1.9	2 363 920	1.9	9	11.5	146	14.6	2 316	14.4	
Clinton	525	1.6	89 161	1.0	13 314 274	1.0	36	4.5	1 012	7.9	19 174	9.0	
Columbiana	491	1.6	25 611	1.7	2 940 271	1.8	184	2.3	5 378	2.1	83 581	1.7	
Coshocton	429	1.3	28 923	1.4	3 819 487	1.4	134	2.2	2 359	2.4	41 168	2.4	
Crawford	562	1.5	67 344	1.1	9 009 889	1.1	58	3.3	1 626	4.3	25 772	3.7	
Cuyahoga	6	14.5	66	14.7	5 860	16.3	2	25.0	(D)	(D)	(D)	(D)	
Darke	1 277	1.0	109 361	.9	16 031 969	.9	167	1.8	5 336	1.7	103 693	1.7	
Defiance	455	1.5	35 746	1.3	4 484 241	1.3	39	3.7	1 656	2.4	29 080	2.5	
Delaware	310	1.7	47 142	1.1	6 376 042	1.1	31	4.9	1 035	9.3	18 959	9.6	
Erie	268	1.5	30 107	1.6	3 954 549	1.5	26	3.8	967	7.3	13 574	2.8	
Fairfield	625	1.4	68 203	1.2	9 033 303	1.2	50	3.6	1 657	2.7	31 048	2.0	
Fayette	399	1.2	87 504	.7	13 181 892	.7	25	5.1	461	6.7	9 387	5.3	

See footnotes at end of table.

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

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

Geographic area	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)	
Franklin	206	1.8	28 767	1.4	3 750 662	1.3	19	4.5	678	2.9	11 050	2.4	
Fulton	615	1.6	83 633	1.2	11 381 465	1.2	84	2.5	3 860	1.7	70 943	1.7	
Gallia	165	2.5	3 978	4.6	454 622	4.6	65	3.8	1 645	3.9	27 028	3.7	
Geauga	284	2.0	6 445	3.2	648 715	3.5	175	2.5	2 122	2.5	27 523	2.6	
Greene	470	1.5	69 421	1.0	10 202 333	1.0	41	4.4	847	4.5	16 050	4.0	
Guernsey	209	2.2	5 588	4.5	644 473	5.4	57	4.1	788	4.2	11 147	4.3	
Hamilton	44	4.2	3 917	3.3	512 189	2.3	6	11.8	265	15.1	5 310	11.8	
Hancock	757	1.4	79 159	1.2	10 667 189	1.2	27	4.4	886	3.7	14 951	2.9	
Hardin	605	2.0	67 747	1.6	9 159 070	1.5	57	3.3	1 148	3.0	22 216	2.8	
Harrison	133	2.2	4 686	3.0	496 148	3.8	28	5.1	903	4.0	15 148	4.5	
Henry	770	1.2	78 637	1.1	11 416 924	1.1	46	3.5	1 739	4.5	24 144	4.1	
Highland	550	1.6	55 654	1.5	7 465 243	1.5	70	3.5	2 106	4.9	36 039	5.4	
Hocking	102	2.8	3 626	4.0	377 297	4.1	3	17.5	16	17.8	258	18.4	
Holmes	959	1.6	27 994	1.3	3 307 178	1.3	600	2.0	6 372	1.7	99 827	1.8	
Huron	536	1.6	56 926	1.2	6 761 515	1.2	56	3.9	2 009	3.4	37 970	4.8	
Jackson	103	2.7	5 983	4.7	570 814	5.7	29	4.8	779	5.1	12 108	4.8	
Jefferson	143	2.1	3 076	2.8	332 763	2.9	30	4.6	625	4.9	8 471	4.0	
Knox	605	1.8	51 787	1.8	6 862 916	1.8	119	3.4	2 577	4.1	39 236	3.3	
Lake	26	5.0	900	5.9	62 316	7.6	7	11.1	31	10.8	280	11.1	
Lawrence	74	3.2	1 227	4.2	139 685	4.6	37	4.1	788	3.6	12 569	4.3	
Licking	567	1.5	54 047	1.2	7 077 291	1.2	91	2.6	2 174	2.5	35 837	2.4	
Logan	466	1.5	62 735	1.2	7 992 588	1.2	91	2.5	2 919	2.1	49 209	2.1	
Lorain	300	1.7	25 961	1.3	2 732 934	1.3	66	2.7	2 948	4.4	42 608	4.5	
Lucas	205	1.7	22 904	1.6	3 180 066	1.7	6	12.1	173	7.3	2 725	7.1	
Madison	423	1.4	89 723	.8	13 334 019	.8	44	4.1	1 266	2.5	26 761	2.4	
Mahoning	282	1.5	17 234	1.5	1 844 553	1.4	91	2.4	3 112	1.4	52 081	1.3	
Marion	397	1.5	65 779	1.0	8 459 348	1.0	19	5.8	633	2.8	10 693	2.8	
Medina	365	1.5	19 623	1.5	2 131 637	1.5	97	2.6	2 899	2.7	39 573	2.8	
Meigs	136	2.4	3 779	4.7	391 990	5.6	47	3.7	1 160	3.4	17 249	2.6	
Mercer	987	1.2	87 375	.9	12 429 836	.9	273	1.5	9 193	1.3	179 552	1.2	
Miami	659	1.4	70 070	1.2	10 386 249	1.1	59	3.0	1 392	3.4	28 641	2.7	
Monroe	149	2.2	2 474	3.8	253 207	4.3	47	4.1	610	3.9	9 243	4.2	
Montgomery	367	1.5	35 346	1.3	5 039 740	1.3	26	5.8	569	6.4	9 806	5.8	
Morgan	186	2.6	5 723	2.4	641 467	2.0	44	4.7	847	4.0	12 779	4.0	
Morrow	441	3.1	43 877	2.0	5 369 431	1.9	67	4.4	1 394	4.9	25 102	5.4	
Muskingum	398	1.4	19 688	1.9	2 482 990	2.3	96	2.7	2 140	3.6	37 336	3.9	
Noble	101	2.9	1 493	3.0	140 410	3.7	19	5.9	296	6.8	3 659	9.9	
Ottawa	269	1.7	16 223	1.6	1 854 016	1.7	4	6.7	(D)	(D)	(D)	(D)	
Paulding	353	1.3	51 167	1.0	6 748 481	.9	15	5.6	740	5.2	9 446	5.1	
Perry	274	1.9	21 004	2.0	2 621 944	1.8	32	5.0	591	6.7	11 033	6.5	
Pickaway	442	1.4	90 878	.8	12 792 860	.8	50	3.3	1 932	2.4	26 693	2.6	
Pike	97	3.2	9 106	2.9	997 339	2.6	20	7.0	696	5.3	11 554	4.8	
Portage	263	1.6	17 954	1.6	1 809 265	1.6	67	2.7	1 677	1.8	23 921	1.9	
Preble	688	1.5	83 752	1.3	12 270 975	1.3	83	3.0	2 176	2.8	44 640	3.0	
Putnam	1 035	.9	72 601	.9	9 896 073	.9	61	3.1	1 764	3.5	32 825	5.4	
Richland	558	1.8	43 796	1.5	5 135 838	1.5	147	3.1	4 066	3.2	69 387	3.3	
Ross	415	1.7	59 631	1.0	8 364 841	1.0	63	3.5	1 850	2.4	38 254	2.3	
Sandusky	603	1.5	59 541	1.2	7 884 125	1.2	40	4.5	960	3.3	12 952	4.5	
Scioto	197	3.6	9 096	4.2	1 008 203	4.9	47	5.9	774	8.2	14 217	8.3	
Seneca	942	1.7	75 950	1.5	9 919 083	1.5	75	2.9	1 979	3.5	34 873	3.8	
Shelby	694	1.3	58 819	1.2	7 938 157	1.2	146	1.9	4 518	1.6	89 247	1.9	
Stark	555	1.3	33 159	1.5	3 868 149	1.5	165	2.0	5 201	1.4	72 635	1.5	
Summit	52	3.8	1 684	3.1	177 195	3.0	7	9.2	84	6.7	1 251	5.8	
Trumbull	406	1.5	20 882	2.4	2 306 966	2.4	141	2.6	2 565	2.2	37 750	2.3	
Tuscarawas	430	1.7	23 018	2.1	2 823 835	2.1	172	2.3	4 666	1.4	85 130	1.3	
Union	429	1.6	56 045	1.1	7 519 244	1.1	57	2.9	2 279	1.4	40 386	1.4	
Van Wert	617	1.0	75 250	.9	10 954 851	.9	26	4.1	735	4.7	14 551	4.8	
Vinton	53	4.0	1 901	4.8	184 764	5.2	2	14.7	(D)	(D)	(D)	(D)	
Warren	300	1.6	30 597	1.3	4 406 940	1.2	35	4.1	601	3.0	10 385	2.5	
Washington	305	1.7	10 209	1.9	1 248 013	2.0	76	3.3	1 354	4.0	24 072	3.9	
Wayne	1 016	1.4	65 068	1.1	8 585 525	1.1	569	1.6	15 471	1.1	275 483	1.0	
Williams	492	1.8	46 271	1.5	5 566 008	1.4	50	3.3	2 658	2.4	40 965	2.1	
Wood	810	1.3	93 277	1.1	12 615 045	1.1	31	3.8	1 019	4.9	21 320	6.7	
Wyandot	483	1.4	60 007	1.0	8 112 620	1.0	31	4.2	1 072	6.0	15 369	5.5	

Selected crops harvested —Con.

Geographic area	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)	
	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)	
Ohio	24 054	1.3	1 089 529	1.0	54 020 364	1.0	8 048	1.4	115 727	1.3	7 901 758	1.3	
Adams	180	2.7	3 716	2.9	122 617	2.9	20	6.9	276	8.3	12 438	8.7	
Allen	616	1.3	25 505	1.5	1 241 679	1.5	70	3.0	741	3.2	52 916	3.3	
Ashland	390	1.8	9 725	1.8	435 587	1.9	301	2.0	4 845	2.0	335 873	2.2	
Ashtabula	145	2.5	3 626	3.0	169 081	3.5	256	2.0	5 253	2.3	337 096	2.6	

See footnotes at end of table.

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

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

Geographic area	Selected crops harvested —Con.											
	Soybeans for beans					Hay —alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)						
	Farms		Acres		Quantity		Farms		Acres		Quantity	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	Relative standard error of estimate (percent)
Pickaway	438	1.4	84 952	.9	3 670 386	.9	221	1.9	6 403	2.1	18 032	2.6
Pike	66	3.9	8 734	3.9	331 455	3.4	238	1.9	8 767	2.7	16 847	3.7
Portage	122	2.3	10 193	2.3	348 892	2.2	467	1.1	15 010	1.5	31 323	1.7
Preble	616	1.5	60 960	1.3	2 703 854	1.3	384	1.7	8 814	2.0	23 088	2.3
Putnam	1 266	.8	123 304	.9	4 471 915	.9	339	1.4	10 916	1.9	30 830	1.8
Richland	396	2.0	30 493	1.7	1 066 207	1.7	533	1.7	16 362	1.8	39 651	1.9
Ross	368	1.7	54 201	1.1	2 379 757	1.1	415	1.6	16 116	1.8	34 831	1.7
Sandusky	684	1.4	79 772	1.3	2 735 932	1.3	229	2.0	5 167	2.3	15 228	2.3
Scioto	85	4.7	10 662	4.0	355 437	4.4	361	2.5	10 609	3.7	21 260	3.8
Seneca	1 069	1.6	116 318	1.6	4 184 849	1.6	331	1.8	7 207	2.2	20 726	2.3
Shelby	742	1.2	72 419	1.2	2 951 058	1.2	347	1.5	13 408	1.7	40 567	1.5
Stark	175	2.1	12 816	1.8	462 222	1.9	673	1.2	25 319	1.3	64 928	1.3
Summit	23	5.1	887	4.3	24 756	4.5	94	2.7	2 804	3.3	5 386	3.0
Trumbull	201	2.1	13 540	2.7	422 516	2.7	538	1.3	17 942	1.6	41 935	1.8
Tuscarawas	66	3.3	3 571	3.5	126 018	3.3	705	1.3	32 726	1.4	87 143	1.4
Union	551	1.4	92 126	1.1	3 394 334	1.1	281	1.8	8 391	1.8	23 231	2.0
Van Wert	683	.9	107 344	.9	4 439 587	.9	120	2.1	2 266	2.2	7 233	2.2
Vinton	11	9.8	659	6.5	19 448	6.8	152	1.6	6 416	2.4	11 714	4.6
Warren	326	1.5	39 584	1.6	1 521 511	1.5	281	1.6	6 359	1.9	16 266	2.0
Washington	65	3.4	2 736	2.9	109 984	3.0	666	1.1	22 607	1.5	49 107	1.6
Wayne	370	1.6	23 133	1.6	914 949	1.5	1 066	1.3	52 006	1.1	157 428	1.1
Williams	595	1.8	69 418	1.6	2 364 186	1.6	219	2.3	6 707	3.1	15 306	3.2
Wood	882	1.3	119 876	1.2	4 746 713	1.2	210	2.0	4 677	2.5	14 395	2.5
Wyandot	563	1.3	86 710	1.0	3 269 030	1.1	151	2.1	4 176	2.4	11 816	2.4
Geographic area	Selected crops harvested —Con.											
	Vegetables harvested for sale (see text)											
	Farms					Acres						
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	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)
Ohio	2 349	1.1			55 024	.6						
Adams	16	7.3			33	8.8						
Allen	14	6.8			414	2.1						
Ashland	34	5.2			431	6.6						
Ashtabula	48	4.5			230	4.1						
Athens	13	8.3			27	10.0						
Auglaize	3	18.6			(D)	(D)						
Belmont	14	7.7			79	11.3						
Brown	26	6.4			204	16.4						
Butler	38	4.9			152	5.7						
Carroll	18	6.6			48	7.8						
Champaign	24	4.4			1 453	.2						
Clark	21	7.2			201	5.8						
Clermont	28	5.5			294	6.3						
Clinton	20	6.5			149	6.1						
Columbiana	59	4.0			405	4.6						
Coshocton	18	7.0			132	6.8						
Crawford	9	7.3			72	11.2						
Cuyahoga	15	6.0			242	2.0						
Darke	29	4.6			628	4.0						
Defiance	7	8.7			59	4.7						
Delaware	27	6.2			301	4.9						
Erie	47	3.8			995	2.3						
Fairfield	32	5.1			199	6.4						
Fayette	5	13.6			39	17.8						
Franklin	30	4.8			403	4.0						
Fulton	29	4.0			2 220	1.1						
Gallia	15	8.7			42	10.5						
Geauga	69	3.8			516	4.9						
Greene	39	4.8			414	2.0						
Guernsey	5	13.0			24	18.5						
Hamilton	33	4.5			656	1.1						
Hancock	16	4.4			896	4.8						
Hardin	10	7.6			556	2.6						
Harrison	8	9.7			20	8.9						
Henry	36	3.8			2 474	1.5						
Highland	9	8.9			17	7.7						
Hocking	12	9.5			62	12.0						
Holmes	34	5.0			63	6.6						
Huron	32	4.9			6 902	.4						
Jackson	10	6.6			161	5.0						
Jefferson	6	11.3			32	11.4						
Knox	27	6.4			93	9.3						
Lake	37	3.8			383	7.7						
Lawrence	24	5.5			132	7.9						

See footnotes at end of table.

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

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

Geographic area	Selected crops harvested — Con.				
	Vegetables harvested for sale (see text)				
	Farms			Acres	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	
Licking	35	4.9	251	8.6	
Logan	16	7.5	493	3.3	
Lorain	77	3.0	1 359	3.6	
Lucas	49	3.1	2 125	7	
Madison	11	8.2	86	12.9	
Mahoning	64	3.3	924	3.8	
Marion	13	8.2	140	9.5	
Medina	56	3.7	459	5.9	
Meigs	63	3.5	1 258	3.5	
Mercer	20	6.7	130	7.6	
Miami	22	6.1	1 249	1.3	
Monroe	9	7.0	58	14.2	
Montgomery	34	4.9	422	8.2	
Morgan	5	12.8	36	24.6	
Morrow	10	12.6	26	15.1	
Muskingum	25	5.2	174	10.5	
Noble	1	41.9	(D)	(D)	
Ottawa	23	3.9	1 934	.5	
Paulding	1	—	(D)	(D)	
Perry	13	8.3	30	5.4	
Pickaway	22	5.3	485	4.0	
Pike	4	18.0	18	25.1	
Portage	62	3.6	1 424	6.6	
Preble	22	6.7	82	8.3	
Putnam	46	3.5	3 350	1.7	
Richland	23	6.5	150	6.9	
Ross	15	9.0	86	8.7	
Sandusky	73	2.4	4 896	1.3	
Scioto	27	6.2	366	6.7	
Seneca	15	3.8	1 471	1.5	
Shelby	5	12.8	39	27.8	
Stark	94	2.9	1 922	3.1	
Summit	38	4.7	1 184	3.9	
Trumbull	63	3.2	272	5.2	
Tuscarawas	20	6.3	199	1.5	
Union	14	7.8	45	9.6	
Van Wert	3	17.7	10	6.9	
Vinton	3	18.6	4	22.2	
Warren	43	4.2	449	7.2	
Washington	36	4.8	639	4.2	
Wayne	54	3.8	272	8.2	
Williams	18	5.4	550	3.1	
Wood	50	3.2	2 916	1.6	
Wyandot	6	9.4	(D)	(D)	

¹Data are based on a sample of farms.

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

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

Item	Census published farms		Not on mail list ¹		Percent not on mail list ¹	
	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (percent)	Standard error of percent
Farms ----- number--	70 711	1.1	10 443	18.0	12.9	2.1
Land in farms ----- acres --	14 247 969	1.0	440 760	22.2	3.0	.6
Average size of farm ----- acres --	201.5	.3	42.2	17.9	(X)	(X)
Farms by size:						
Less than 10 acres -----	5 417	1.1	3 522	29.2	39.4	7.2
10 to 49 acres -----	15 295	1.0	4 054	28.5	21.0	4.7
Less than 50 acres -----	20 712	1.0	7 576	21.6	26.8	4.4
50 acres or more -----	49 999	1.2	2 867	32.6	5.4	1.7
50 to 99 acres -----	13 988	1.1	2 135	41.5	13.2	4.8
100 to 179 acres -----	13 880	1.3	434	63.0	3.0	1.9
180 acres or more -----	22 131	1.3	298	48.5	1.3	.6
Harvested cropland ----- farms --	62 535	1.1	6 333	21.5	9.2	1.8
acres--	9 790 327	1.0	176 857	30.4	1.8	.5
Farms by value of sales:						
Less than \$1,000 -----	6 421	1.3	3 767	31.3	37.0	7.3
\$1,000 to \$2,499 -----	7 509	1.2	3 032	32.4	28.8	6.6
Less than \$2,500 -----	13 930	1.2	6 799	23.1	32.8	5.1
\$2,500 or more -----	56 781	1.2	3 644	25.2	6.0	1.4
\$2,500 to \$9,999 -----	18 824	.9	1 907	33.8	9.2	2.8
\$10,000 or more -----	37 957	1.4	1 737	40.1	4.4	1.7
Market value of agricultural products sold -----\$1,000 --	3 914 040	.7	48 732	29.0	1.2	.4
Farms by standard industrial classification:						
Crops (01) -----	41 797	1.1	3 945	25.3	8.6	2.0
Livestock (02) -----	28 914	1.0	6 498	21.7	18.4	3.4
Farms by type of organization:						
Individual or family -----	60 936	1.1	9 930	18.8	14.0	2.3
Partnership or corporation -----	9 462	1.1	513	61.2	5.1	3.0
Other -----	313	1.9	-	(X)	-	(X)
Farms by tenure of operator:						
Full owners -----	41 342	1.0	8 115	20.6	16.4	2.9
Part owners and tenants -----	29 369	1.2	2 328	31.7	7.3	2.2
Part owners -----	21 876	1.2	1 461	44.2	6.3	2.6
Tenants -----	7 493	1.5	867	42.6	10.4	4.0
Operators by place of residence:						
On farm operated -----	54 856	1.1	7 142	20.7	11.5	2.1
Not on farm operated -----	11 805	1.2	1 362	42.9	10.3	4.0
Not reported -----	4 050	1.1	1 939	40.4	32.4	9.3
Operators by principal occupation:						
Farming -----	34 604	1.2	1 598	39.7	4.4	1.7
Other -----	36 107	1.0	8 468	18.8	19.0	3.0
Operators by sex:						
Male -----	66 482	1.1	9 795	18.5	12.8	2.1
Female -----	4 229	1.1	648	69.3	13.3	8.0
Operators by race:						
White -----	70 468	1.1	10 067	17.7	12.5	2.0
Black and other races -----	243	2.2	-	(X)	-	(X)
Operators by years on present farm:						
4 years or less -----	7 648	1.4	1 720	30.8	18.4	4.6
5 years or more -----	51 955	1.1	6 180	23.3	10.6	2.2
Average years on present farm -----	20.3	1.5	15.2	25.8	(X)	(X)
Not reported -----	11 108	1.1	2 544	37.2	18.6	5.9
Average age of operator -----	52.0	.1	49.3	17.3	(X)	(X)

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

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