

## Appendix C.

# Statistical Methodology

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### 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. .	10.8
Land in farms.....acres. .	2.0
Estimated market value of land and buildings <sup>1</sup> .....\$1,000. .	3.7
Market value of agricultural products sold ..\$1,000. .	1.8
Harvested cropland .....acres. .	2.6
Corn for grain or seed .....acres. .	2.6
Wheat for grain .....acres. .	1.4
Livestock and poultry inventory:	
Cattle and calves .....number. .	3.8
Hogs and pigs .....number. .	7.8
Hens and pullets of laying age.....number. .	.1

<sup>1</sup>Data are based on a sample of farms.

### Sample Estimation

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

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

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

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

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

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

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

## CENSUS SAMPLING ERROR

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

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

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

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

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

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

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

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

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

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

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

Farms	Relative standard error of estimate (percent)
<b>COMPLETE COUNT ITEM</b>	
Number of farms reporting:	
25 .....	5.5
50 .....	3.5
75 .....	2.5
100 .....	1.8
150 .....	.3
200 .....	.3
300 .....	.2
500 .....	.2
750 .....	.2
1,000 .....	.1
1,500 .....	.1
2,000 .....	.1
<b>SAMPLE COUNT ITEM</b>	
Number of farms reporting:	
25 .....	39.7
50 .....	27.6
75 .....	22.1
100 .....	18.8
150 .....	14.8
200 .....	12.2
300 .....	9.1
500 .....	5.3
750 .....	.7
1,000 .....	.6
1,500 .....	.5
2,000 .....	.4

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

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

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

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

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

### CENSUS NONSAMPLING ERROR

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

### Census Coverage

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

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

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

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

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

## Mail List Coverage

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

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

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

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

## Respondent and Enumerator Error

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

## Item Nonresponse

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

## Processing Error

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

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

### **Classification Error**

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

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

### **EDITING DATA AND IMPUTATION FOR ITEM NONRESPONSE**

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

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

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

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

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

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

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

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

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

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

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

Item	Total	Relative standard error of estimate (percent)	Item	Total	Relative standard error of estimate (percent)
<b>FARMS AND LAND IN FARMS</b>			<b>FARM PRODUCTION EXPENSES<sup>1</sup></b>		
Farms -----number--	30 264	.7	Total farm production expenses ----- farms --	30 263	.7
Land in farms -----acres--	15 726 007	.1	Average per farm ----- \$1,000--	3 122 970	.2
Average size of farm -----acres--	520	.7	Average per farm ----- dollars--	103 194	.7
<b>MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD</b>			Livestock and poultry purchased ----- farms --		
Total sales (see text) ----- farms --	30 264	.7	----- \$1,000--	8 540	2.0
Average per farm ----- \$1,000--	3 821 222	.1	----- farms --	360 704	.5
Average per farm ----- dollars--	126 263	.7	Feed for livestock and poultry ----- farms --	15 116	1.3
Farms by value of sales: ----- \$1,000--			----- \$1,000--	445 993	.5
Less than \$1,000 (see text) ----- farms --	4 943	1.1	Commercially mixed formula feeds ----- farms --	6 582	2.3
\$1,000 to \$2,499 ----- \$1,000--	1 149	1.3	----- \$1,000--	209 491	.6
\$2,500 to \$4,999 ----- farms --	4 037	1.1	Seeds, bulbs, plants, and trees ----- farms --	9 939	1.5
\$5,000 to \$9,999 ----- \$1,000--	6 665	1.1	----- \$1,000--	83 826	.9
\$10,000 to \$19,999 ----- farms --	3 489	1.1	Commercial fertilizer ----- farms --	16 663	1.1
\$20,000 to \$24,999 ----- \$1,000--	12 365	1.1	Agricultural chemicals ----- \$1,000--	185 614	.7
\$25,000 to \$39,999 ----- farms --	3 078	1.1	Petroleum products ----- farms --	23 884	.9
\$40,000 to \$49,999 ----- \$1,000--	21 597	1.1	----- \$1,000--	170 128	.8
\$50,000 to \$99,999 ----- farms --	2 565	1.1	Electricity ----- farms --	27 819	.8
\$100,000 to \$249,999 ----- \$1,000--	35 801	1.1	Hired farm labor ----- farms --	115 163	.6
\$250,000 to \$499,999 ----- farms --	762	1.5	Contract labor ----- farms --	9 939	1.5
\$500,000 or more ----- \$1,000--	16 821	1.5	Repair and maintenance ----- farms --	83 826	.9
Sales by commodity or commodity group:			Customwork, machine hire, and rental of machinery and equipment ----- farms --	185 614	.7
Crops, including nursery and greenhouse crops ----- farms --	16 277	.6	Interest expense ----- farms --	23 884	.9
Grains ----- \$1,000--	2 451 605	.2	Secured by real estate ----- farms --	27 819	.8
Corn for grain ----- farms --	5 517	.5	Not secured by real estate ----- farms --	115 163	.6
Wheat ----- \$1,000--	570 198	.2	Cash rent ----- farms --	9 939	1.5
Soybeans ----- farms --	513	1.2	Property taxes ----- \$1,000--	83 826	.9
Sorghum for grain ----- \$1,000--	49 079	.4	All other farm production expenses ----- farms --	16 663	1.1
Barley ----- farms --	5 013	.5	----- \$1,000--	170 128	.8
Oats ----- \$1,000--	426 960	.2	----- farms --	27 819	.8
Other grains ----- farms --	2	—	----- \$1,000--	115 163	.6
Cotton and cottonseed ----- \$1,000--	—	—	Electricity ----- farms --	22 085	1.0
Tobacco ----- farms --	—	—	Hired farm labor ----- \$1,000--	65 250	.7
Hay, silage, and field seeds ----- \$1,000--	5 670	.8	Contract labor ----- farms --	14 145	1.2
Vegetables, sweet corn, and melons ----- farms --	164 758	.5	Contract labor ----- \$1,000--	601 614	.5
Fruits, nuts, and berries ----- farms --	1 603	.8	Repair and maintenance ----- farms --	3 746	3.2
Nursery and greenhouse crops ----- \$1,000--	162 842	.3	----- \$1,000--	58 402	2.1
Other crops ----- farms --	5 858	.7	Customwork, machine hire, and rental of machinery and equipment ----- farms --	25 446	.8
Livestock, poultry, and their products ----- \$1,000--	952 520	.2	Interest expense ----- \$1,000--	193 976	.7
Poultry and poultry products ----- farms --	1 241	1.0	Secured by real estate ----- farms --	9 227	1.7
Dairy products ----- \$1,000--	182 367	.2	Not secured by real estate ----- farms --	62 861	1.6
Cattle and calves ----- farms --	688	.7	Cash rent ----- farms --	13 192	1.4
Hogs and pigs ----- \$1,000--	418 920	.1	Property taxes ----- \$1,000--	191 779	.9
Sheep, lambs, and wool ----- farms --	15 720	.7	All other farm production expenses ----- farms --	9 717	1.8
Other livestock and livestock products (see text) ----- \$1,000--	1 369 617	.1	----- \$1,000--	121 493	1.2
Value of agricultural products sold directly to individuals for human consumption (see text) ----- farms --	126 554	1.3	----- \$1,000--	7 251	1.9
----- \$1,000--	1 315	.6	----- \$1,000--	70 287	1.0
----- \$1,000--	547 432	.1	Cash rent ----- farms --	6 367	2.1
----- \$1,000--	12 259	.7	Property taxes ----- \$1,000--	101 971	1.4
----- \$1,000--	641 893	.1	All other farm production expenses ----- farms --	28 321	.7
----- \$1,000--	1 150	1.2	----- \$1,000--	77 300	.9
----- \$1,000--	9 064	1.4	----- \$1,000--	27 981	.8
----- \$1,000--	1 322	1.2	----- \$1,000--	408 390	.5
----- \$1,000--	3 448	1.3			
----- \$1,000--	3 165	1.0	<b>NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)<sup>1</sup></b>		
----- \$1,000--	41 226	.7	All farms ----- number--	30 263	.7
			Average per farm ----- \$1,000--	689 113	.9
			Average per farm ----- dollars--	22 771	1.1
			Farms with net gains <sup>2</sup> ----- number--	14 274	1.2
			Average net gain ----- \$1,000--	820 789	.7
			Average net gain ----- dollars--	57 502	1.4
			Farms with net losses ----- number--	15 989	1.2
			Average net loss ----- \$1,000--	131 676	1.9
			Average net loss ----- dollars--	8 235	2.2
			<b>GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME</b>		
			Government payments ----- farms --	5 284	.5
			----- \$1,000--	105 914	.2
			Other farm-related income <sup>1</sup> ----- farms --	7 591	2.1
			----- \$1,000--	66 587	3.6
			Customwork and other agricultural services ----- farms --	2 304	4.2
			----- \$1,000--	22 470	7.6
			Gross cash rent or share payments ----- farms --	2 661	4.0
			----- \$1,000--	23 450	5.0
			Forest products and Christmas trees ----- farms --	1 113	6.5
			----- \$1,000--	10 521	8.8
			Other farm-related income sources ----- farms --	2 803	3.3
			----- \$1,000--	10 145	7.8
			<b>COMMODITY CREDIT CORPORATION LOANS</b>		
			Total ----- farms--	773	.7
			----- \$1,000--	30 253	.4

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)
<b>FARMS BY SIZE</b>			<b>LIVESTOCK—Con.</b>		
1 to 9 acres ----- farms ..	5 408	1.0	Cattle and calves sold ----- farms ..	12 259	.7
----- acres..	25 187	1.1	----- number..	1 014 365	.2
10 to 49 acres ----- farms ..	10 115	.9	----- \$1,000..	641 893	.1
----- acres..	241 900	.9	Hogs and pigs inventory ----- farms ..	1 407	1.2
50 to 69 acres ----- farms ..	1 748	1.0	----- number..	56 171	1.4
----- acres..	100 875	1.0	Hogs and pigs sold ----- farms ..	1 150	1.2
70 to 99 acres ----- farms ..	1 973	.9	----- number..	93 660	1.6
----- acres..	161 087	.9	----- \$1,000..	9 064	1.4
100 to 139 acres ----- farms ..	1 630	.9	Sheep and lambs of all ages inventory ----- farms ..	1 364	1.2
----- acres..	188 788	.9	----- number..	63 584	1.6
140 to 179 acres ----- farms ..	1 185	1.0	Sheep and lambs sold ----- farms ..	1 201	1.2
----- acres..	186 174	1.0	----- number..	59 882	1.2
180 to 219 acres ----- farms ..	769	1.2	Horses and ponies inventory ----- farms ..	7 894	.9
----- acres..	151 822	1.2	----- number..	51 096	1.2
220 to 259 acres ----- farms ..	599	1.3	Horses and ponies sold ----- farms ..	2 192	1.1
----- acres..	142 262	1.3	----- number..	7 323	1.4
260 to 499 acres ----- farms ..	1 968	.9	<b>POULTRY</b>		
----- acres..	708 673	.9	Chickens 3 months old or older inventory ----- farms ..	1 886	1.1
500 to 999 acres ----- farms ..	1 699	.8	----- number..	5 499 448	.2
----- acres..	1 205 247	.8	Hens and pullets of laying age ----- farms ..	1 870	1.1
1,000 to 1,999 acres ----- farms ..	1 461	—	----- number..	5 021 482	.1
----- acres..	2 043 173	—	Broilers and other meat-type chickens sold ----- farms ..	164	2.0
2,000 acres or more ----- farms ..	1 709	—	----- number..	33 720 007	.2
----- acres..	10 570 819	—	<b>CROPS HARVESTED</b>		
<b>FARMS BY STANDARD INDUSTRIAL CLASSIFICATION</b>			Corn for grain or seed ----- farms ..	571	1.1
Cash grains (011) ----- farms ..	3 722	.5	----- acres..	94 619	.5
----- acres..	6 537 978	.1	----- bushels..	16 854 783	.5
Field crops, except cash grains (013) ----- farms ..	3 321	.9	Corn for silage or green chop ----- farms ..	586	.8
----- acres..	1 135 217	.4	----- acres..	38 321	.5
Vegetables and melons (016) ----- farms ..	771	1.2	----- tons, green..	901 161	.6
----- acres..	164 781	.6	Wheat for grain ----- farms ..	5 032	.5
Fruits and tree nuts (017) ----- farms ..	5 792	.8	----- acres..	2 495 940	.1
----- acres..	476 667	.4	----- bushels..	120 833 207	.2
Horticultural specialties (018) ----- farms ..	889	1.1	Barley for grain ----- farms ..	2 428	.5
----- acres..	44 211	1.1	----- acres..	422 447	.3
General farms, primarily crop (019) ----- farms ..	826	1.2	----- bushels..	19 565 135	.3
----- acres..	364 144	.4	Dry edible beans, excluding dry limas ----- farms ..	391	1.3
Livestock, except dairy, poultry, and animal specialties (021) ----- farms ..	10 312	.9	----- acres..	36 067	1.0
----- acres..	5 293 818	.2	Irish potatoes ----- farms ..	737 923	1.0
Dairy farms (024) ----- farms ..	1 215	.5	----- cwt..	431	.8
----- acres..	301 217	.4	----- cwt..	129 110	.1
Poultry and eggs (025) ----- farms ..	250	1.8	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text) ----- farms ..	10 396	.7
----- acres..	13 351	2.1	----- acres..	740 586	.5
Animal specialties (027) ----- farms ..	2 897	1.1	----- tons, dry..	2 669 837	.5
----- acres..	132 412	1.3	Vegetables harvested for sale (see text) ----- farms ..	1 605	.8
General farms, primarily livestock and animal specialties (029) ----- farms ..	269	2.0	----- acres..	172 057	.3
----- acres..	1 262 211	.1	Land in orchards ----- farms ..	6 220	.7
<b>LIVESTOCK</b>			----- acres..	256 282	.3
Cattle and calves inventory ----- farms ..	13 484	.7			
----- number..	1 270 275	.3			
Beef cows ----- farms ..	9 555	.8			
----- number..	310 554	.5			
Milk cows ----- farms ..	1 842	.7			
----- number..	242 787	.1			

<sup>1</sup>Data are based on a sample of farms.

<sup>2</sup>Farms 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)
<b>FARMS AND LAND IN FARMS</b>			<b>FARM PRODUCTION EXPENSES<sup>1</sup></b>		
Farms ..... number ..	14 717	.6	Total farm production expenses ..... farms ..	14 745	.7
Land in farms ..... acres ..	13 463 614	.1	..... \$1,000 ..	3 024 988	.2
Average size of farm ..... acres ..	915	.6	Average per farm ..... dollars ..	205 153	.7
<b>MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD</b>			<b>NET CASH RETURN FROM AGRICULTURAL SALES FOR THE FARM UNIT (SEE TEXT)<sup>1</sup></b>		
Total sales (see text) ..... farms ..	14 717	.6	All farms ..... number ..	14 745	.7
..... \$1,000 ..	3 779 444	.1	..... \$1,000 ..	745 246	.8
Average per farm ..... dollars ..	256 808	.6	Average per farm ..... dollars ..	50 542	1.1
Farms by value of sales:			Farms with net gains <sup>2</sup> ..... number ..	11 273	1.1
\$10,000 to \$19,999 ..... farms ..	2 565	1.1	..... \$1,000 ..	815 611	.7
..... \$1,000 ..	35 801	1.1	Average net gain ..... dollars ..	72 351	1.3
\$20,000 to \$24,999 ..... farms ..	762	1.5	Farms with net losses ..... number ..	3 472	2.8
..... \$1,000 ..	16 821	1.5	..... \$1,000 ..	70 365	2.5
\$25,000 to \$39,999 ..... farms ..	1 566	1.3	Average net loss ..... dollars ..	20 266	3.8
..... \$1,000 ..	49 578	1.3	<b>GOVERNMENT PAYMENTS AND OTHER FARM-RELATED INCOME</b>		
\$40,000 to \$49,999 ..... farms ..	739	1.4	Government payments ..... farms ..	4 449	.4
..... \$1,000 ..	32 721	1.4	..... \$1,000 ..	100 592	.2
\$50,000 to \$99,999 ..... farms ..	2 426	1.0	Other farm-related income <sup>1</sup> ..... farms ..	4 575	2.4
..... \$1,000 ..	174 963	1.0	..... \$1,000 ..	54 005	4.0
\$100,000 to \$249,999 ..... farms ..	3 491	.5	Customwork and other agricultural services ..... farms ..	1 496	4.8
..... \$1,000 ..	561 158	.4	..... \$1,000 ..	20 977	8.0
\$250,000 to \$499,999 ..... farms ..	1 752	—	Gross cash rent or share payments ..... farms ..	1 378	5.0
..... \$1,000 ..	607 559	—	..... \$1,000 ..	18 842	5.3
\$500,000 or more ..... farms ..	1 416	—	Forest products and Christmas trees ..... farms ..	402	10.0
..... \$1,000 ..	2 300 844	—	..... \$1,000 ..	6 720	12.1
Sales by commodity or commodity group:			Other farm-related income sources ..... farms ..	2 216	3.4
Crops, including nursery and greenhouse crops ..... farms ..	11 375	.6	..... \$1,000 ..	7 467	5.7
..... \$1,000 ..	2 438 006	.2	<b>COMMODITY CREDIT CORPORATION LOANS</b>		
Grains ..... farms ..	5 047	.5	Total ..... farms ..	740	.7
..... \$1,000 ..	568 597	.2	..... \$1,000 ..	30 187	.4
Corn for grain ..... farms ..	499	1.1			
..... \$1,000 ..	49 024	.4			
Wheat ..... farms ..	4 675	.5			
..... \$1,000 ..	425 737	.2			
Soybeans ..... farms ..	—	—			
..... \$1,000 ..	—	—			
Sorghum for grain ..... farms ..	2	—			
..... \$1,000 ..	(D)	(D)			
Barley ..... farms ..	2 127	.5			
..... \$1,000 ..	38 291	.3			
Oats ..... farms ..	154	1.8			
..... \$1,000 ..	(D)	(D)			
Other grains ..... farms ..	1 267	.7			
..... \$1,000 ..	54 550	.5			
Cotton and cottonseed ..... farms ..	—	—			
..... \$1,000 ..	—	—			
Tobacco ..... farms ..	—	—			
..... \$1,000 ..	—	—			
Hay, silage, and field seeds ..... farms ..	3 090	.8			
..... \$1,000 ..	159 449	.5			
Vegetables, sweet corn, and melons ..... farms ..	1 232	.8			
..... \$1,000 ..	161 991	.3			
Fruits, nuts, and berries ..... farms ..	4 383	.8			
..... \$1,000 ..	948 108	.2			
Nursery and greenhouse crops ..... farms ..	818	1.0			
..... \$1,000 ..	181 011	.2			
Other crops ..... farms ..	651	.6			
..... \$1,000 ..	418 849	.1			
Livestock, poultry, and their products ..... farms ..	6 378	.6			
..... \$1,000 ..	1 341 438	.1			
Poultry and poultry products ..... farms ..	262	1.4			
..... \$1,000 ..	126 303	.1			
Dairy products ..... farms ..	1 258	.5			
..... \$1,000 ..	547 293	.1			
Cattle and calves ..... farms ..	5 572	.6			
..... \$1,000 ..	621 308	.1			
Hogs and pigs ..... farms ..	417	1.4			
..... \$1,000 ..	8 074	1.6			
Sheep, lambs, and wool ..... farms ..	368	1.5			
..... \$1,000 ..	2 408	1.7			
Other livestock and livestock products (see text) ..... farms ..	857	1.2			
..... \$1,000 ..	36 051	.8			
Value of agricultural products sold directly to individuals for human consumption (see text) ..... farms ..	831	1.1			
..... \$1,000 ..	8 077	1.0			

See footnotes at end of table.





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

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

Item	All farms		Farms with sales of \$10,000 or more	
	Percent change from 1987 to 1992	Standard error of estimate	Percent change from 1987 to 1992	Standard error of estimate
Farms..... number..	-9.8	.9	-3.7	.7
Land in farms..... acres..	-2.4	.2	-2.2	.1
Average size of farm..... acres..	8.3	1.1	1.6	.8
Estimated market value of land and buildings <sup>1</sup> :				
Average per farm.....dollars..	31.6	1.8	24.9	1.8
Average per acre.....dollars..	20.7	1.9	22.0	2.1
Estimated market value of all machinery and equipment <sup>1</sup> :				
Average per farm.....dollars..	33.0	2.0	24.7	1.9
Farms by size:				
1 to 9 acres.....	-10.5	1.4	4.2	1.7
10 to 49 acres.....	-11.0	1.1	1.7	1.3
50 to 179 acres.....	-9.4	.9	-3.0	.9
180 to 499 acres.....	-12.1	.9	-10.1	.9
500 to 999 acres.....	-8.4	1.0	-8.8	.9
1,000 to 1,999 acres.....	-10.1	-	-11.6	-
2,000 acres or more.....	2.7	(L)	2.7	(L)
Total cropland.....farms..				
.....acres..	-10.8	.8	-4.0	.7
Harvested cropland.....farms..	-2.1	.2	-1.8	.2
.....acres..	-11.4	.6	-5.0	.7
.....acres..	3.0	.3	4.1	.3
Irrigated land.....farms..				
.....acres..	-8.9	.8	-3.9	.8
.....acres..	8.1	.4	9.9	.4
Market value of agricultural products sold.....\$1,000..				
Average per farm.....dollars..	30.9	.2	31.7	.2
.....dollars..	45.1	1.4	36.8	1.0
Crops, including nursery and greenhouse crops.....\$1,000..				
Livestock, poultry, and their products.....\$1,000..	45.2	.3	45.9	.3
.....\$1,000..	11.3	.1	11.9	.1
Farms by value of sales:				
Less than \$2,500.....	-15.3	.9	(X)	(X)
\$2,500 to \$4,999.....	-16.3	1.2	(X)	(X)
\$5,000 to \$9,999.....	-12.2	1.2	(X)	(X)
\$10,000 to \$24,999.....	-9.7	1.2	-9.7	1.2
\$25,000 to \$49,999.....	-13.6	1.3	-13.6	1.3
\$50,000 to \$99,999.....	-19.0	1.0	-19.0	1.0
\$100,000 to \$249,999.....	-3.2	.5	-3.2	.5
\$250,000 to \$499,999.....	27.6	(L)	27.6	(L)
\$500,000 or more.....	47.2	.1	47.2	.1
Total farm production expenses <sup>1</sup> .....\$1,000..				
Average per farm.....dollars..	28.8	1.0	30.3	1.0
.....dollars..	42.8	1.4	35.0	1.2
Net cash return from agricultural sales for the farm unit (see text) <sup>1</sup> .....farms..				
.....\$1,000..	-9.8	.8	-3.5	.8
Average per farm.....dollars..	44.0	2.4	39.8	2.0
.....dollars..	59.7	3.0	44.9	2.4
Operators by principal occupation:				
Farming.....	-6.6	.7	-5.8	.6
Other.....	-13.4	1.1	4.2	1.3
Operators by days worked off farm:				
Any.....	-15.5	4.3	-4.5	4.8
200 days or more.....	-15.3	.4	1.5	5.2
Livestock and poultry:				
Cattle and calves inventory.....farms..				
.....number..	-12.6	.9	-6.4	.7
.....number..	-2.6	.3	-1.6	.3
Beef cows.....farms..				
.....number..	-11.5	.9	-2	.8
.....number..	-7.3	.5	-5.7	.5
Milk cows.....farms..				
.....number..	-23.6	.7	-17.3	.6
.....number..	9.9	.2	10.3	.2
Cattle and calves sold.....farms..				
.....number..	-14.7	.8	-7.0	.7
.....number..	-6.9	.2	-5.9	.2
Hogs and pigs inventory.....farms..				
.....number..	-7.7	1.4	-6.9	1.6
.....number..	-5.1	1.6	-5.1	1.7
Hogs and pigs sold.....farms..				
.....number..	-15.1	1.3	-12.2	1.6
.....number..	-10.7	1.8	-8.3	2.1
Sheep and lambs inventory.....farms..				
.....number..	-15.2	1.3	-19.0	1.5
.....number..	-20.7	1.6	-24.8	1.9
Chickens 3 months old or older inventory.....farms..				
.....number..	-28.9	1.1	-35.1	1.1
.....number..	-7.2	.2	-7.3	.2
Broilers and other meat-type chickens sold.....farms..				
.....number..	-33.1	1.7	7.8	2.3
.....number..	-6.5	.4	-6.5	.4
Selected crops harvested:				
Corn for grain or seed.....farms..				
.....acres..	-22.3	1.0	-17.7	1.0
.....bushels..	3.4	.6	4.2	.6
.....bushels..	5.6	.6	6.0	.6
Wheat for grain.....farms..				
.....acres..	-9.5	.5	-8.1	.5
.....acres..	15.5	.2	15.8	.2
.....bushels..	5.3	.2	5.5	.2
Barley for grain.....farms..				
.....acres..	-34.8	.4	-34.0	.4
.....acres..	-30.6	.2	-30.6	.2
.....bushels..	-38.6	.2	-38.6	.2
Irish potatoes.....farms..				
.....acres..	-11.3	.6	-12.8	.7
.....acres..	17.2	.2	17.1	.2
.....cwt..	14.7	.1	14.7	.1
Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text).....farms..				
.....acres..	-16.4	.8	-10.6	.7
.....acres..	-4.1	.6	-2	.6
.....tons, dry..	3.7	.6	7.1	.7
Vegetables harvested for sale (see text).....farms..				
.....acres..	-6.9	.9	-6.5	.9
.....acres..	19.4	.4	20.0	.4
Land in orchards.....farms..				
.....acres..	-9.1	.9	-2.6	.9
.....acres..	6.2	.5	9.7	.4

<sup>1</sup>Data are based on a sample of farms.

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

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

Geographic area	Farms		Land in farms		Average size of farm		Average market value of land and buildings per farm <sup>1</sup>		Estimated market value of all machinery and equipment <sup>1</sup>	
	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)
<b>Washington</b>	<b>30 264</b>	<b>.7</b>	<b>15 726 007</b>	<b>.1</b>	<b>520</b>	<b>.7</b>	<b>468 482</b>	<b>1.0</b>	<b>1 843 190</b>	<b>.8</b>
Adams	602	.6	996 742	.2	1 656	.6	792 726	2.0	92 167	2.5
Asotin	142	.8	274 546	.3	1 933	.8	588 404	4.3	8 496	6.9
Benton	1 128	.8	640 370	.1	568	.8	568 286	1.6	76 343	3.0
Chelan	1 240	.6	112 085	.8	90	1.0	303 317	3.6	53 621	3.6
Clallam	328	.7	24 253	2.2	74	2.3	288 279	14.8	7 029	9.9
Clark	1 257	.8	82 967	1.1	66	1.4	287 381	4.7	28 778	5.4
Columbia	191	.5	304 928	.3	1 596	.6	1 007 192	12.1	23 492	9.3
Cowlitz	365	.9	35 678	1.7	98	1.9	259 459	5.7	11 740	6.8
Douglas	888	.4	918 033	.1	1 034	.5	518 210	3.6	65 221	5.5
Ferry	193	.8	748 088	.1	3 876	.8	1 286 258	2.4	6 249	19.4
Franklin	857	.6	670 149	.2	782	.7	738 313	2.9	103 416	3.0
Garfield	186	.2	325 472	.2	1 750	.3	653 741	3.6	20 487	7.1
Grant	1 696	.7	1 086 045	.2	640	.7	615 577	1.4	194 954	2.7
Grays Harbor	385	.7	44 742	1.8	116	1.9	332 708	13.5	10 374	7.9
Island	278	.6	19 526	2.4	70	2.4	337 839	9.0	7 350	10.9
Jefferson	116	1.1	9 603	3.2	83	3.4	255 170	6.9	3 525	5.1
King	1 221	.9	42 290	1.5	35	1.7	326 405	4.6	34 087	4.1
Kitsap	366	.8	10 302	2.0	28	2.1	253 131	9.9	7 495	14.3
Kittitas	758	.9	355 360	.4	469	1.0	461 523	7.0	30 355	6.0
Klickitat	508	.7	689 639	.2	1 358	.8	566 009	7.5	29 141	7.5
Lewis	1 067	.8	112 263	1.1	105	1.3	237 409	5.2	27 708	3.7
Lincoln	708	.3	1 465 788	.1	2 070	.3	987 130	4.3	96 833	4.5
Mason	145	1.3	10 965	3.0	76	3.3	208 265	7.9	2 715	9.7
Okanogan	1 344	.9	1 291 118	.2	961	.9	580 657	5.1	64 746	3.9
Pacific	248	.4	32 637	1.5	132	1.6	263 008	10.3	6 747	11.6
Pend Oreille	205	.9	55 360	1.5	270	1.7	297 353	9.5	5 519	10.1
Pierce	1 059	.8	58 750	1.1	55	1.4	269 050	6.0	46 787	5.0
San Juan	155	1.1	20 529	3.0	132	3.2	464 395	6.9	3 148	5.8
Skagit	754	.6	92 074	.7	122	.9	435 274	5.3	51 476	3.6
Skamania	60	1.1	4 043	3.1	67	3.3	223 036	5.3	1 211	4.0
Snohomish	1 255	.8	74 153	1.0	59	1.3	347 551	5.1	40 898	4.0
Spokane	1 708	.7	625 769	.4	366	.8	394 060	3.8	88 811	4.6
Stevens	1 054	.9	546 303	.5	518	1.0	338 979	4.1	28 070	5.1
Thurston	811	.8	59 890	1.5	74	1.7	322 962	6.8	25 083	3.1
Wahkiakum	110	.9	12 611	2.4	115	2.6	295 405	10.6	3 143	6.4
Walla Walla	745	.6	710 546	.2	954	.6	697 612	2.5	77 492	2.8
Whatcom	1 367	.6	118 136	.7	86	.9	377 867	4.0	81 766	3.7
Whitman	1 113	.5	1 404 289	.2	1 262	.6	1 023 833	3.0	158 313	3.3
Yakima	3 651	.8	1 639 965	.1	449	.8	395 904	1.4	218 403	1.4

Geographic area	Average market value of all machinery and equipment per farm <sup>1</sup>		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses <sup>1</sup>			
	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total farm production expenses			
							Farms		Value	
						Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	
<b>Washington</b>	<b>61 053</b>	<b>1.1</b>	<b>3 821 222</b>	<b>.1</b>	<b>126 263</b>	<b>.7</b>	<b>30 263</b>	<b>.7</b>	<b>3 122 970</b>	<b>.2</b>
Adams	152 848	2.6	221 059	.1	367 207	.6	603	.8	184 742	.5
Asotin	59 828	7.1	7 254	1.2	51 083	1.4	142	1.8	6 900	4.1
Benton	68 839	3.3	213 877	.1	189 607	.7	1 128	.8	181 558	.6
Chelan	43 277	3.7	152 015	.3	122 592	.8	1 239	.9	103 716	1.1
Clallam	21 496	10.0	7 141	1.8	21 772	1.9	327	1.0	5 462	4.0
Clark	22 894	5.5	41 384	.6	32 923	1.0	1 257	.9	34 993	1.7
Columbia	122 996	9.4	19 664	.6	102 953	.8	191	1.1	15 260	5.0
Cowlitz	32 253	6.8	17 099	.5	46 848	1.0	364	1.1	14 311	2.4
Douglas	73 613	5.6	109 236	.3	123 013	.5	887	.6	82 970	1.0
Ferry	32 549	19.5	4 500	1.4	23 315	1.6	192	1.0	4 314	11.7
Franklin	120 672	3.1	239 528	.2	279 496	.6	857	1.0	185 872	.7
Garfield	110 740	7.1	18 524	.3	99 591	.4	186	.9	15 381	5.0
Grant	115 357	2.8	481 928	.2	284 156	.7	1 697	.6	403 051	.4
Grays Harbor	27 014	7.9	18 577	.8	48 251	1.0	384	.9	15 058	4.3
Island	26 439	11.0	9 251	.6	33 278	.9	278	1.1	8 005	3.5
Jefferson	30 652	5.5	3 355	2.1	28 919	2.3	115	2.1	3 256	5.4
King	27 871	4.2	84 548	.3	69 245	1.0	1 223	1.0	72 894	1.2
Kitsap	20 478	14.4	10 580	.7	28 908	1.0	366	1.0	11 713	5.7
Kittitas	40 366	6.2	70 276	.4	92 713	1.0	759	.9	60 630	1.2
Klickitat	57 478	7.6	34 000	.5	66 930	.9	507	.7	31 034	4.0
Lewis	26 339	3.9	61 676	.3	57 803	.8	1 067	.8	52 937	1.9
Lincoln	136 963	4.5	81 664	.2	115 345	.3	708	.5	61 503	2.0
Mason	18 724	9.9	1 197	4.2	8 258	4.4	145	2.1	1 518	7.2
Okanogan	48 139	4.1	138 419	.4	102 990	1.0	1 345	1.1	97 149	1.2
Pacific	28 112	12.0	12 680	.9	51 129	1.0	248	.7	9 098	4.3
Pend Oreille	26 920	10.2	2 781	2.8	13 566	2.9	205	1.4	2 526	10.6
Pierce	44 222	5.1	85 094	.2	80 353	.8	1 058	.9	77 687	1.8
San Juan	20 439	6.2	1 176	5.3	7 585	5.4	154	2.0	1 616	8.2
Skagit	68 180	3.7	138 471	.2	183 648	.6	755	.8	121 418	1.0

See footnotes at end of table.

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

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

Geographic area	Average market value of all machinery and equipment per farm <sup>1</sup>		Market value of agricultural products sold		Average market value of agricultural products sold per farm		Farm production expenses <sup>1</sup>			
	Value (dollars)	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Value (dollars)	Relative standard error of estimate (percent)	Total farm production expenses			
							Farms		Value	
							Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
Skamania .....	20 185	5.5	1 001	1.4	16 676	1.8	60	3.8	867	1.9
Snohomish .....	32 562	4.1	98 026	.2	78 108	.8	1 256	.8	87 647	1.4
Spokane .....	52 028	4.6	73 952	.5	43 297	.8	1 708	.7	60 673	2.3
Stevens .....	26 657	5.2	23 402	1.1	22 203	1.4	1 054	1.1	20 033	3.2
Thurston .....	30 891	3.2	77 616	.2	95 705	.9	812	1.0	69 492	1.1
Wahkiakum .....	28 572	6.8	5 009	1.9	45 540	2.1	110	2.2	4 176	6.3
Walla Walla .....	103 877	2.8	197 442	.1	265 022	.6	747	.7	172 954	.6
Whatcom .....	59 902	3.8	211 730	.2	154 886	.7	1 365	.8	173 401	.7
Whitman .....	142 368	3.4	156 356	.3	140 482	.6	1 113	.7	121 455	1.3
Yakima .....	59 984	1.7	689 734	.2	188 916	.8	3 651	.8	545 701	.5

Farm production expenses<sup>1</sup>—Con.

Geographic area	Livestock and poultry purchased				Feed for livestock and poultry				Seeds, bulbs, plants, and trees			
	Farms		Value		Farms		Value		Farms		Value	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)
<b>Washington ..</b>	<b>8 540</b>	<b>2.0</b>	<b>360 704</b>	<b>.5</b>	<b>15 116</b>	<b>1.3</b>	<b>445 993</b>	<b>.5</b>	<b>9 939</b>	<b>1.5</b>	<b>83 826</b>	<b>.9</b>
Adams .....	117	16.3	(D)	(D)	220	10.5	24 402	.7	381	5.1	5 262	1.6
Asotin .....	54	12.5	589	9.8	99	6.2	749	7.0	45	9.6	241	12.7
Benton .....	299	10.7	2 543	10.4	582	5.8	2 839	4.8	250	7.7	12 425	3.0
Chelan .....	56	30.8	199	47.8	78	23.9	179	21.5	262	11.2	721	5.2
Clallam .....	134	16.3	419	19.5	216	9.5	1 001	4.7	59	27.3	175	1.8
Clark .....	457	8.3	2 920	4.2	819	4.3	9 800	1.6	194	11.4	1 039	2.2
Columbia .....	34	19.9	294	6.4	72	15.3	279	10.3	130	11.2	677	5.9
Cowlitz .....	105	17.0	849	4.8	251	8.5	3 933	.9	65	21.0	234	12.6
Douglas .....	113	17.0	1 671	10.9	176	12.3	1 346	8.0	300	8.1	1 328	5.9
Ferry .....	75	27.4	617	14.8	159	10.0	758	29.6	49	32.4	84	45.8
Franklin .....	184	13.4	12 002	3.1	221	11.4	11 382	2.1	530	5.5	8 044	1.5
Garfield .....	49	20.5	419	16.6	91	12.9	765	14.7	147	3.4	910	4.6
Grant .....	394	9.2	67 112	1.0	558	6.9	36 462	1.0	915	4.1	11 954	1.5
Grays Harbor .....	153	15.5	799	9.8	289	6.7	5 060	1.6	39	33.5	145	1.0
Island .....	71	21.9	323	28.6	195	8.1	2 675	2.5	60	22.9	44	11.2
Jefferson .....	49	10.2	647	5.5	92	4.9	1 018	7.3	21	20.6	7	17.4
King .....	459	7.9	5 427	5.1	815	4.2	22 924	2.1	195	13.0	2 565	.8
Kitsap .....	117	16.2	1 080	9.9	264	6.0	4 958	1.1	83	20.6	35	43.1
Kittitas .....	283	9.8	18 948	3.8	490	5.7	8 004	3.6	191	11.7	382	5.5
Klickitat .....	213	12.3	2 245	11.4	317	7.7	2 953	14.7	209	10.2	935	5.9
Lewis .....	436	8.7	6 006	5.8	767	4.4	22 772	2.2	191	14.6	401	10.5
Lincoln .....	160	11.8	1 766	4.3	295	8.5	2 213	11.3	538	3.8	3 142	3.4
Mason .....	57	10.8	183	26.8	114	4.2	223	17.4	23	11.5	28	8.7
Okanogan .....	286	11.5	2 836	6.8	507	6.3	2 892	10.2	297	11.1	723	5.8
Pacific .....	62	26.9	503	13.1	123	14.4	2 227	7.9	31	36.2	29	10.3
Pend Oreille .....	70	24.9	335	48.9	127	14.9	475	22.7	60	30.0	48	66.8
Pierce .....	438	9.1	7 559	3.5	712	4.7	22 319	3.0	138	14.6	2 183	1.0
San Juan .....	39	13.8	199	47.4	100	6.0	147	14.5	33	13.7	11	11.1
Skagit .....	292	9.4	6 736	2.9	480	5.4	25 454	2.1	312	7.5	4 060	1.0
Skamania .....	10	9.9	5	10.7	30	5.6	33	11.2	10	7.6	4	5.3
Snohomish .....	484	7.4	4 863	5.8	945	3.3	33 566	2.8	263	9.3	1 524	2.2
Spokane .....	440	9.3	3 204	14.5	902	4.8	7 865	6.3	654	6.1	3 006	6.9
Stevens .....	380	9.1	2 390	7.8	644	5.2	3 978	11.4	344	9.6	402	15.2
Thurston .....	296	9.9	4 306	10.5	621	4.2	24 944	1.1	165	14.1	808	.6
Wahkiakum .....	41	12.8	173	30.1	72	7.7	1 716	6.2	13	18.7	9	18.2
Walla Walla .....	169	15.0	(D)	(D)	312	8.4	14 946	.6	431	5.3	4 925	1.8
Whatcom .....	576	6.3	10 618	3.3	937	3.9	65 036	1.8	428	6.8	2 523	15.2
Whitman .....	199	11.3	2 583	6.3	341	9.4	4 637	9.0	882	2.6	7 441	2.7
Yakima .....	689	5.9	74 598	.5	1 083	4.1	69 065	.4	1 001	5.5	5 354	6.8

Farm production expenses<sup>1</sup>—Con.

Geographic area	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)
<b>Washington ..</b>	<b>16 663</b>	<b>1.1</b>	<b>185 614</b>	<b>.7</b>	<b>23 884</b>	<b>.9</b>	<b>170 128</b>	<b>.8</b>	<b>27 819</b>	<b>.8</b>	<b>115 163</b>	<b>.6</b>
Adams .....	465	4.6	15 436	2.1	492	4.1	9 085	2.0	567	2.5	5 758	2.1
Asotin .....	68	9.5	707	12.3	106	4.8	413	8.0	133	3.7	616	6.8
Benton .....	556	4.8	15 078	1.1	935	2.9	15 006	.7	954	2.7	6 202	2.1
Chelan .....	998	3.3	2 223	7.0	1 171	1.9	8 482	2.4	1 210	1.4	2 753	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 <sup>1</sup> —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)
Clallam .....	104	17.9	159	4.9	263	7.1	87	11.3	270	7.0	247	10.4
Clark .....	469	7.1	832	15.9	1 033	3.0	724	7.5	1 134	2.4	1 201	3.7
Columbia .....	159	6.2	2 339	7.9	162	6.7	1 707	8.4	190	1.1	1 245	6.0
Cowlitz .....	119	16.2	395	15.9	156	13.4	314	12.8	294	6.1	540	22.9
Douglas .....	725	3.0	4 526	5.7	834	1.8	6 970	2.5	861	1.4	3 920	3.4
Ferry .....	54	36.6	94	20.4	94	20.1	64	39.9	178	5.4	338	16.2
Franklin .....	662	3.7	18 477	2.3	689	3.9	14 727	2.6	812	2.4	6 825	2.1
Garfield .....	160	4.4	2 337	5.4	162	5.5	2 000	9.3	184	.9	1 288	4.5
Grant .....	1 361	2.1	34 300	1.3	1 403	2.3	25 619	2.6	1 544	1.8	12 754	1.3
Grays Harbor .....	68	22.4	374	1.7	284	8.0	236	7.9	325	4.1	492	10.0
Island .....	114	14.8	194	11.2	149	13.2	61	11.5	224	5.1	270	8.1
Jefferson .....	36	13.7	68	9.3	95	4.4	37	25.5	109	2.9	128	8.8
King .....	261	10.5	747	3.2	882	3.8	649	2.3	1 047	2.8	2 035	2.1
Kitsap .....	130	14.8	34	15.5	177	10.7	100	41.4	313	4.6	247	8.4
Kittitas .....	415	6.8	2 782	4.2	620	3.9	1 279	7.4	689	2.5	1 610	4.2
Klickitat .....	277	7.6	2 159	8.1	321	7.1	1 822	3.8	472	3.1	1 670	6.3
Lewis .....	283	11.9	653	9.9	702	5.1	445	8.5	923	2.6	1 323	3.5
Lincoln .....	554	2.7	10 025	4.1	551	1.9	5 844	7.6	684	2.0	5 222	3.1
Mason .....	43	11.3	85	34.0	107	5.3	26	9.7	133	3.1	95	8.3
Okanogan .....	806	4.0	2 603	2.8	1 089	2.8	7 335	2.8	1 282	1.5	3 890	2.9
Pacific .....	146	11.2	206	17.0	234	3.0	318	15.0	232	4.5	259	9.5
Pend Oreille .....	128	14.4	161	21.0	62	27.4	146	62.2	194	4.4	200	10.7
Pierce .....	252	11.9	692	3.2	767	4.8	899	8.1	916	3.0	2 361	3.0
San Juan .....	27	13.8	25	14.5	94	6.8	18	27.7	140	3.5	111	18.0
Skagit .....	372	6.9	4 959	2.7	511	5.5	3 223	4.0	677	2.8	3 729	1.9
Skamania .....	23	5.2	41	2.0	54	4.0	157	1.3	54	4.0	40	3.3
Snohomish .....	405	7.7	1 697	2.4	852	4.1	815	3.7	1 160	2.0	2 603	2.5
Spokane .....	953	4.9	6 796	5.2	1 352	2.8	4 352	6.9	1 590	1.6	3 972	6.0
Stevens .....	492	7.5	842	20.8	763	4.5	729	38.1	967	2.2	1 355	8.5
Thurston .....	258	10.8	504	4.4	496	6.0	427	5.4	705	3.2	1 828	1.9
Wahkiakum .....	20	17.1	50	8.1	101	4.0	61	11.3	100	4.2	97	5.1
Walla Walla .....	556	4.8	12 771	1.6	596	4.1	11 568	2.1	706	2.5	6 491	1.7
Whatcom .....	739	4.9	3 968	4.4	1 020	3.3	2 144	4.0	1 307	1.4	4 502	1.8
Whitman .....	955	2.4	21 894	3.0	1 063	1.7	15 365	3.1	1 091	1.4	8 762	2.1
Yakima .....	2 450	2.4	14 380	1.2	3 442	1.1	26 877	1.0	3 448	1.2	18 176	1.2

Geographic area	Farm production expenses <sup>1</sup> —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)
<b>Washington</b> ..	<b>22 085</b>	<b>1.0</b>	<b>65 250</b>	<b>.7</b>	<b>14 145</b>	<b>1.2</b>	<b>601 614</b>	<b>.5</b>	<b>3 746</b>	<b>3.2</b>	<b>58 402</b>	<b>2.1</b>
Adams .....	465	4.6	5 466	1.9	369	5.7	11 706	1.4	59	7.7	(D)	(D)
Asotin .....	107	5.6	161	5.4	58	11.3	653	6.2	10	35.9	9	26.1
Benton .....	888	3.3	7 358	1.1	459	5.5	41 991	1.5	127	14.7	12 857	.6
Chelan .....	906	4.0	1 289	4.2	965	3.5	43 694	1.7	304	10.5	3 205	6.8
Clallam .....	170	13.5	131	5.4	104	18.6	1 039	2.5	9	70.9	(D)	(D)
Clark .....	780	4.9	827	3.3	429	8.2	5 586	3.6	118	20.7	234	14.6
Columbia .....	131	9.3	259	20.2	104	11.9	2 120	1.9	16	35.1	63	5.3
Cowlitz .....	214	9.4	338	8.8	141	14.6	3 371	2.0	24	43.5	50	17.8
Douglas .....	606	4.8	1 000	3.5	650	3.3	26 941	2.4	129	13.6	1 138	3.6
Ferry .....	148	11.3	96	19.7	66	31.2	334	21.4	8	36.0	29	2.9
Franklin .....	665	5.0	6 178	1.5	504	6.6	30 832	1.6	181	14.9	6 694	11.1
Garfield .....	109	10.9	242	7.5	119	8.5	1 217	7.8	7	—	17	—
Grant .....	1 451	2.2	7 959	2.1	960	3.5	65 470	1.4	301	10.1	7 392	5.2
Grays Harbor .....	198	11.3	272	5.8	124	17.4	1 902	3.0	40	38.9	96	29.8
Island .....	196	8.6	216	4.6	96	16.4	1 435	1.2	17	55.3	25	54.0
Jefferson .....	80	6.9	80	5.3	33	15.4	275	1.3	10	28.0	30	23.6
King .....	794	4.8	1 393	2.8	414	7.4	14 359	.9	92	18.5	333	5.3
Kitsap .....	233	8.1	206	8.4	150	12.1	1 337	26.7	28	24.3	(D)	(D)
Kittitas .....	550	5.2	764	4.6	237	10.4	9 031	4.0	118	16.0	366	31.7
Klickitat .....	365	6.8	784	10.6	167	11.4	7 257	4.3	44	30.0	107	10.9
Lewis .....	695	4.8	929	5.4	358	9.5	6 096	3.0	83	24.7	194	4.3
Lincoln .....	588	4.4	2 427	7.8	481	5.6	5 996	5.7	62	23.9	200	33.2
Mason .....	97	5.9	36	8.4	27	13.7	168	14.8	3	71.7	1	93.0
Okanogan .....	993	4.0	1 772	3.7	712	4.3	27 834	2.8	201	14.3	4 842	5.9
Pacific .....	214	6.5	271	7.6	121	13.0	1 589	8.2	27	39.9	36	36.7
Pend Oreille .....	159	9.9	85	31.9	17	54.0	87	23.1	17	59.1	13	74.2
Pierce .....	797	4.4	1 658	2.8	305	9.8	18 252	3.5	86	23.1	617	5.1
San Juan .....	89	6.7	34	10.4	53	11.3	62	19.8	24	20.8	80	19.8
Skagit .....	545	4.4	1 935	1.8	368	7.4	30 071	2.1	123	15.7	1 246	1.9
Skamania .....	43	4.4	11	3.5	20	5.7	322	1.0	5	14.1	9	22.1
Snohomish .....	915	3.8	1 387	3.5	400	7.7	14 802	1.8	119	17.6	418	25.3
Spokane .....	1 184	3.7	1 213	4.8	491	8.3	5 603	6.9	175	16.1	227	15.6
Stevens .....	768	4.5	516	10.0	265	12.0	1 222	17.2	79	24.6	193	52.4
Thurston .....	584	4.4	1 418	2.8	232	9.8	14 955	.4	89	20.3	165	25.4

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 <sup>1</sup> —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)
Wahkiakum .....	70	6.9	117	4.9	36	13.3	460	6.7	8	38.5	8	36.4
Walla Walla .....	579	4.6	3 691	2.8	392	6.2	15 908	2.1	72	19.9	4 566	3.5
Whatcom .....	1 053	2.8	3 162	2.6	725	4.7	24 951	2.5	123	16.4	675	7.7
Whitman .....	834	3.6	1 238	4.7	659	4.7	10 299	4.7	131	15.3	670	16.0
Yakima .....	2 822	2.2	8 330	1.8	2 334	2.2	152 386	.9	677	7.6	10 341	6.8

Geographic area	Farm production expenses <sup>1</sup> —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)
<b>Washington --</b>	<b>25 446</b>	<b>.8</b>	<b>193 976</b>	<b>.7</b>	<b>9 227</b>	<b>1.7</b>	<b>62 861</b>	<b>1.6</b>	<b>13 192</b>	<b>1.4</b>	<b>191 779</b>	<b>.9</b>
Adams .....	526	3.7	10 218	2.8	221	7.9	3 589	3.0	338	5.2	8 303	3.7
Asotin .....	109	5.3	680	6.8	41	14.7	64	13.0	71	8.9	670	11.7
Benton .....	948	2.8	13 587	2.0	370	8.0	3 326	5.6	504	6.1	11 345	2.4
Chelan .....	1 108	2.5	5 738	2.7	411	8.1	1 097	11.6	637	6.0	6 679	4.3
Clallam .....	236	8.1	390	7.0	27	36.8	(D)	(D)	40	24.8	314	17.7
Clark .....	988	3.4	1 969	3.6	236	12.7	391	10.1	324	9.5	2 465	10.5
Columbia .....	155	7.1	1 880	9.0	82	16.4	622	18.7	80	17.1	1 092	13.8
Cowlitz .....	280	6.8	780	6.2	15	—	61	—	107	15.3	886	8.2
Douglas .....	771	2.7	6 091	4.2	250	9.4	672	6.3	461	5.7	6 158	3.7
Ferry .....	160	10.4	523	15.0	8	36.0	11	7.5	92	22.7	276	29.6
Franklin .....	767	3.2	12 416	3.6	454	6.5	5 051	3.5	541	5.5	12 437	2.9
Garfield .....	141	6.6	1 971	9.8	100	14.0	450	12.8	92	12.3	1 198	8.9
Grant .....	1 503	2.0	20 819	1.8	913	4.0	12 167	2.2	1 075	3.8	24 417	2.3
Grays Harbor .....	283	6.3	1 488	25.6	58	24.9	107	12.3	98	22.7	1 180	15.9
Island .....	220	6.9	641	5.8	20	37.3	97	4.5	42	26.5	440	18.9
Jefferson .....	110	2.9	227	10.4	21	19.8	14	32.0	29	15.7	124	11.0
King .....	944	3.6	3 899	2.8	189	13.8	250	9.3	367	8.7	3 303	5.4
Kitsap .....	281	6.0	546	23.3	49	28.6	(D)	(D)	106	16.2	813	12.8
Kittitas .....	666	3.1	3 018	5.2	319	9.0	975	12.9	362	7.7	3 242	7.2
Klickitat .....	435	4.4	2 267	5.0	106	16.7	368	7.3	252	9.0	2 304	6.9
Lewis .....	846	3.3	2 602	3.3	161	15.8	648	9.4	365	9.1	2 684	6.5
Lincoln .....	672	2.4	7 215	3.8	231	10.5	2 012	21.7	374	8.1	4 603	8.0
Mason .....	114	4.7	177	8.7	20	21.5	5	27.9	45	10.7	131	11.5
Okanogan .....	1 168	2.7	6 385	4.0	341	9.8	1 121	9.5	616	6.6	7 681	3.7
Pacific .....	200	7.0	807	12.6	39	29.5	71	20.4	102	17.8	662	18.4
Pend Oreille .....	160	9.8	284	24.2	16	62.7	39	53.1	63	23.3	114	27.2
Pierce .....	839	3.7	4 123	3.0	201	14.9	570	18.0	402	9.5	3 245	5.4
San Juan .....	129	4.2	207	16.6	32	16.5	42	15.2	39	13.7	184	22.4
Skagit .....	624	3.8	6 422	1.8	201	10.7	1 515	2.1	348	7.9	6 071	3.7
Skamania .....	42	4.2	46	8.2	10	8.3	4	7.7	12	8.0	16	13.0
Snohomish .....	1 023	3.1	4 781	2.6	269	10.7	775	3.7	398	8.0	4 877	5.3
Spokane .....	1 485	2.4	5 881	4.3	347	10.7	716	13.4	682	6.5	5 720	9.9
Stevens .....	850	3.5	1 775	6.4	226	13.4	286	22.9	412	7.6	1 801	11.0
Thurston .....	640	3.8	3 533	3.5	149	15.4	250	15.9	255	10.7	3 213	8.3
Wahkiakum .....	92	4.7	244	5.1	32	15.0	46	11.7	44	10.9	215	8.7
Walla Walla .....	669	3.0	8 957	2.1	358	7.0	(D)	(D)	345	6.4	7 668	3.8
Whatcom .....	1 102	2.7	9 133	2.6	563	5.7	3 993	2.7	677	5.3	12 557	2.9
Whitman .....	972	2.3	13 607	3.2	482	6.3	4 609	11.0	677	3.9	10 681	5.4
Yakima .....	3 188	1.6	28 648	1.2	1 659	3.9	11 908	3.3	1 718	3.7	32 010	1.7

Geographic area	Farm production expenses <sup>1</sup> —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)
<b>Washington --</b>	<b>6 367</b>	<b>2.1</b>	<b>101 971</b>	<b>1.4</b>	<b>28 321</b>	<b>.7</b>	<b>77 300</b>	<b>.9</b>	<b>27 981</b>	<b>.8</b>	<b>408 390</b>	<b>.5</b>
Adams .....	157	6.4	5 826	3.1	523	3.6	2 865	3.1	571	2.2	18 634	1.3
Asotin .....	16	17.5	200	4.4	124	4.3	337	7.3	141	1.8	810	4.3
Benton .....	193	11.7	7 038	6	1 077	1.3	4 131	2.5	1 069	1.7	25 831	.9
Chelan .....	149	13.1	2 202	18.9	1 151	2.1	4 340	3.1	1 221	1.3	20 914	3.4
Clallam .....	35	29.6	159	14.8	301	4.3	442	23.5	294	4.9	857	5.6
Clark .....	230	12.4	622	7.6	1 202	1.6	1 482	4.3	1 069	2.8	4 901	2.7
Columbia .....	67	17.9	535	20.7	175	4.5	517	6.8	191	1.1	1 631	6.4
Cowlitz .....	64	23.8	395	15.2	349	2.7	463	7.6	336	3.4	1 702	2.1
Douglas .....	132	11.6	1 825	14.3	839	1.9	3 060	5.1	855	1.6	16 326	1.8

See footnotes at end of table.

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

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

Geographic area	Farm production expenses <sup>1</sup> —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)
Ferry	51	31.1	86	26.2	181	5.0	263	19.2	156	10.7	742	21.3
Franklin	359	7.9	16 029	4.4	745	3.1	3 833	3.1	835	1.8	20 944	2.5
Garfield	30	15.7	451	31.1	169	4.3	508	11.5	171	4.4	1 609	9.6
Grant	658	5.4	18 587	2.8	1 561	1.7	7 463	2.3	1 645	1.1	50 575	1.5
Grays Harbor	40	32.7	302	.8	363	3.3	656	14.5	326	4.9	1 946	5.6
Island	66	21.0	201	12.1	253	4.6	349	11.3	222	6.2	1 033	4.0
Jefferson	27	17.7	85	11.9	113	2.6	150	9.5	107	3.6	366	14.8
King	182	12.7	1 243	8.9	1 111	2.1	2 866	4.4	1 080	2.3	10 901	1.1
Kitsap	24	42.3	24	67.8	351	2.4	527	7.7	321	4.2	1 229	9.6
Kittitas	138	14.0	1 647	7.6	703	2.4	2 011	7.3	721	1.9	6 572	3.2
Klickitat	143	16.6	612	10.0	461	3.9	925	6.6	477	2.9	4 627	6.1
Lewis	136	14.8	990	12.7	1 031	1.6	1 430	3.8	904	3.2	5 763	4.3
Lincoln	186	11.8	2 667	17.6	624	2.8	1 797	6.1	708	.5	6 373	4.3
Mason	9	25.4	6	28.4	143	2.2	184	6.6	123	4.0	170	7.2
Okanogan	192	11.1	1 666	10.0	1 277	1.8	3 321	4.0	1 306	1.6	22 246	2.8
Pacific	24	37.4	168	10.6	239	2.9	474	9.8	233	4.3	1 478	2.8
Pend Oreille	28	33.0	30	49.5	205	1.4	155	11.7	196	4.4	355	14.2
Pierce	125	14.9	1 065	4.4	998	1.9	2 146	5.2	952	2.7	9 996	1.6
San Juan	29	14.9	44	17.5	144	2.9	252	8.4	140	3.2	199	11.4
Skagit	293	9.1	5 068	1.3	712	1.9	2 080	4.9	679	3.0	18 850	1.2
Skamania	7	8.9	13	12.1	57	3.9	90	3.0	54	3.8	75	3.1
Snohomish	239	10.5	2 295	7.3	1 216	1.3	2 651	3.7	1 113	2.4	10 594	1.2
Spokane	286	11.3	2 282	13.8	1 649	1.2	2 622	4.0	1 566	1.9	7 212	4.6
Stevens	269	10.9	937	23.3	1 020	1.6	902	4.0	944	2.4	2 706	3.9
Thurston	78	20.3	301	10.8	771	2.1	1 895	7.9	684	3.5	10 944	.9
Wahkiakum	30	14.5	71	11.7	108	2.5	163	4.9	97	4.2	743	4.2
Walla Walla	200	10.6	4 962	3.5	659	2.6	2 327	4.2	663	3.4	14 057	2.3
Whatcom	416	6.5	4 061	5.7	1 300	1.3	3 341	2.3	1 262	1.8	22 737	2.6
Whitman	311	8.4	5 885	8.4	975	2.3	3 315	4.3	1 059	1.8	10 469	3.0
Yakima	748	6.4	11 389	4.4	3 441	1.2	10 965	2.5	3 490	1.1	71 274	.9
	Net cash return from agricultural sales for the farm unit (see text) <sup>1</sup>				Total cropland				Harvested cropland			
	Farms		Value		Farms		Acres		Farms		Acres	
	Number	Relative standard error of estimate (percent)	Total (\$1,000)	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
<b>Washington</b>	<b>30 263</b>	<b>.7</b>	<b>689 113</b>	<b>.9</b>	<b>25 765</b>	<b>.7</b>	<b>7 999 419</b>	<b>.2</b>	<b>21 282</b>	<b>.6</b>	<b>4 734 673</b>	<b>.2</b>
Adams	603	.8	33 943	2.6	547	.7	781 122	.2	505	.7	387 500	.2
Asotin	142	1.8	(D)	(D)	95	1.7	85 202	.7	66	1.9	30 594	.8
Benton	1 128	.8	33 082	3.4	948	.8	457 286	.1	716	.9	266 598	.1
Chelan	1 239	.9	46 138	2.5	1 207	.6	40 567	.9	1 178	.7	31 240	.5
Clallam	327	1.0	384	61.1	250	1.2	12 863	3.0	164	1.8	6 119	3.5
Clark	1 257	.9	5 145	8.1	1 010	.9	47 163	1.4	731	1.0	27 719	1.7
Columbia	191	1.1	5 382	18.2	173	.8	180 083	.4	157	1.0	95 944	.6
Cowlitz	364	1.1	2 767	14.2	259	1.3	16 099	1.4	172	1.7	8 227	1.5
Douglas	887	.6	25 596	5.4	852	.5	535 492	.2	806	.5	217 293	.3
Ferry	192	1.0	(D)	(D)	166	1.2	29 787	1.3	131	1.7	13 146	2.0
Franklin	857	1.0	51 311	2.5	789	.7	457 795	.3	732	.7	291 017	.3
Garfield	186	.9	2 041	25.0	178	.4	197 054	.3	163	.5	107 738	.4
Grant	1 697	.6	76 955	2.4	1 569	.7	752 487	.3	1 429	.7	526 416	.3
Grays Harbor	384	.9	1 299	28.0	320	.9	26 771	1.9	225	1.3	15 606	1.6
Island	278	1.1	1 088	14.5	239	.9	14 483	2.6	193	1.3	9 755	2.6
Jefferson	115	2.1	396	20.7	90	1.9	4 935	2.7	61	2.8	2 151	5.1
King	1 223	1.0	10 798	6.6	759	1.1	24 582	1.3	440	1.5	9 814	1.3
Kitsap	366	1.0	(D)	(D)	242	1.3	3 854	3.5	146	2.0	1 300	3.8
Kittitas	759	.9	9 077	7.3	630	1.0	94 715	1.1	480	1.2	56 750	1.0
Klickitat	507	.7	3 701	19.7	434	.9	201 310	.5	356	1.1	91 904	.6
Lewis	1 067	.8	8 569	8.3	887	.8	60 223	1.1	617	1.1	29 440	1.6
Lincoln	708	.5	20 400	6.1	653	.4	888 059	.2	610	.4	469 660	.2
Mason	145	2.1	(D)	(D)	105	2.1	3 870	4.3	73	2.9	1 703	4.4
Okanogan	1 345	1.1	40 306	3.5	1 212	.9	138 062	.9	1 076	1.0	70 960	.5
Pacific	248	.7	4 510	22.0	216	.7	13 328	1.7	168	1.1	5 422	1.6
Pend Oreille	205	1.4	(D)	(D)	182	1.2	23 095	2.4	137	1.6	12 384	2.8
Pierce	1 058	.9	7 808	10.1	734	1.0	27 166	1.4	459	1.2	13 261	1.1
San Juan	154	2.0	(D)	(D)	132	1.5	10 910	4.4	104	2.1	4 057	4.8
Skagit	755	.8	18 134	3.5	617	.8	72 576	.5	513	.9	57 946	.5
Skamania	60	3.8	134	9.8	45	2.6	2 031	2.6	33	3.5	1 205	2.5
Snohomish	1 256	.8	10 276	8.4	896	.9	48 653	.9	583	1.1	28 742	.9
Spokane	1 708	.7	14 475	12.5	1 474	.7	397 644	.5	1 250	.7	293 248	.6
Stevens	1 054	1.1	2 990	19.8	921	1.0	124 452	1.2	760	1.0	66 918	1.4
Thurston	812	1.0	8 613	7.4	567	1.1	26 520	1.6	372	1.4	12 130	1.7
Wahkiakum	110	2.2	1 174	11.3	96	1.4	8 652	2.7	77	1.9	3 515	3.9
Walla Walla	747	.7	23 143	4.0	666	.7	604 519	.2	594	.8	335 454	.3
Whatcom	1 365	.8	39 173	2.8	1 204	.7	90 719	.7	1 001	.8	65 643	.6
Whitman	1 113	.7	38 301	4.8	1 042	.5	1 132 001	.3	1 001	.5	802 486	.3
Yakima	3 651	.8	143 306	2.0	3 359	.8	363 289	.4	3 003	.8	263 668	.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	Irrigated land				Livestock and poultry							
	Farms		Acres		Cattle and calves inventory				Beef cows inventory			
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Farms		Total		Farms		Total	
					Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
<b>Washington</b>	<b>14 068</b>	<b>.7</b>	<b>1 641 437</b>	<b>.3</b>	<b>13 484</b>	<b>.7</b>	<b>1 270 275</b>	<b>.3</b>	<b>9 555</b>	<b>.8</b>	<b>310 554</b>	<b>.5</b>
Adams	324	1.1	141 852	.5	201	1.4	77 976	.5	145	1.7	10 358	2.3
Asotin	30	5.1	404	4.3	94	1.7	10 579	1.1	76	2.0	(D)	(D)
Benton	914	.9	134 698	.2	483	1.3	19 652	1.2	331	1.6	7 019	1.7
Chelan	1 173	.7	30 008	.4	63	3.5	2 558	1.9	45	3.8	1 646	1.9
Clallam	105	2.5	3 834	3.3	215	1.3	8 027	2.5	176	1.6	2 654	3.9
Clark	183	2.0	4 533	2.2	787	1.0	28 326	1.0	593	1.2	6 831	2.0
Columbia	51	2.9	2 684	1.3	83	2.0	6 988	1.3	78	2.1	3 861	1.2
Cowlitz	65	2.8	3 416	2.0	253	1.3	8 795	1.6	225	1.5	2 974	1.8
Douglas	614	.7	20 062	.5	111	1.7	12 329	.5	93	1.6	(D)	(D)
Ferry	67	2.7	(D)	(D)	127	1.6	13 475	1.9	117	1.8	8 378	1.8
Franklin	715	.7	214 748	.4	210	1.8	41 993	.7	133	2.2	14 417	1.1
Garfield	27	3.2	932	2.3	90	1.2	9 965	.5	86	1.1	(D)	(D)
Grant	1 440	.8	410 552	.4	561	1.2	121 674	.4	380	1.5	22 508	1.4
Grays Harbor	93	2.4	4 799	2.2	265	1.2	17 938	1.5	193	1.6	2 644	3.6
Island	59	3.3	1 895	3.5	173	1.5	8 461	1.5	124	2.0	1 518	4.3
Jefferson	25	5.2	755	2.8	88	1.9	4 261	2.0	73	2.4	1 332	2.6
King	221	2.0	2 412	2.7	499	1.4	39 135	.6	315	1.9	2 226	3.1
Kitsap	83	2.8	409	6.0	165	1.8	1 956	2.8	142	2.0	855	3.2
Kittitas	624	1.0	77 324	1.0	432	1.3	47 629	1.1	328	1.5	18 805	1.6
Klickitat	164	2.0	29 739	1.5	286	1.3	32 125	1.5	214	1.5	14 149	1.6
Lewis	140	2.3	7 789	1.6	788	.9	39 990	.8	573	1.1	8 330	1.8
Lincoln	155	1.1	55 679	.9	281	.9	34 610	.4	246	.9	20 924	.5
Mason	33	5.1	316	8.1	81	2.8	1 845	6.4	61	3.6	972	8.9
Okanogan	1 036	1.0	49 471	.7	470	1.3	51 439	.8	394	1.4	29 571	.8
Pacific	104	1.6	2 162	1.6	135	1.5	9 033	2.7	107	1.8	2 386	3.1
Pend Oreille	35	4.7	1 167	5.0	132	1.7	8 038	2.3	121	1.8	3 851	2.8
Pierce	237	1.7	5 695	1.2	553	1.2	24 719	.7	416	1.4	4 079	1.8
San Juan	35	4.9	784	7.2	78	2.7	3 334	6.1	64	3.2	1 780	6.8
Skagit	149	1.8	8 415	1.2	463	1.0	46 883	.6	254	1.6	4 464	2.6
Skamania	6	9.5	(D)	(D)	32	3.7	640	6.9	26	4.5	(D)	(D)
Snohomish	193	1.9	6 311	.9	684	1.0	53 048	.6	449	1.4	5 143	2.2
Spokane	284	1.6	14 755	1.1	710	1.0	32 879	1.0	501	1.2	12 860	1.1
Stevens	216	2.1	9 119	2.6	640	1.1	35 604	1.1	474	1.3	13 752	1.5
Thurston	182	2.0	4 489	1.5	507	1.2	29 599	.8	386	1.4	5 162	1.9
Wahkiakum	9	7.4	476	4.8	91	1.6	6 042	2.0	66	2.4	1 364	4.9
Walla Walla	414	1.0	92 702	.5	236	1.5	23 804	.7	173	1.9	4 858	1.9
Whatcom	466	1.1	29 689	.6	991	.8	115 904	.4	392	1.5	5 838	2.0
Whitman	88	2.2	6 622	1.4	332	1.2	28 343	.9	282	1.3	16 151	.9
Yakima	3 309	.8	256 508	.4	1 094	1.1	210 679	.3	703	1.4	29 171	1.1

Livestock and poultry – Con.

Geographic area	Milk cows inventory				Hogs and pigs inventory				Sheep and lambs inventory			
	Farms		Total		Farms		Total		Farms		Total	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)
<b>Washington</b>	<b>1 842</b>	<b>.7</b>	<b>242 787</b>	<b>.1</b>	<b>1 407</b>	<b>1.2</b>	<b>56 171</b>	<b>1.4</b>	<b>1 364</b>	<b>1.2</b>	<b>63 584</b>	<b>1.6</b>
Adams	18	5.8	2 641	.1	22	5.9	6 001	1.8	14	7.0	1 419	5.3
Asotin	6	13.1	(D)	(D)	12	9.4	802	3.1	8	9.6	117	7.8
Benton	33	4.9	1 503	.7	53	4.3	586	8.9	42	4.7	1 311	6.8
Chelan	3	16.5	3	16.5	14	6.7	573	19.7	15	8.0	332	7.1
Clallam	28	5.0	1 172	3.0	20	6.5	104	8.9	19	6.4	578	11.1
Clark	77	2.7	6 775	1.0	50	4.2	557	8.1	47	4.2	1 005	6.4
Columbia	3	15.1	4	16.8	10	6.5	1 110	2.1	15	5.9	472	10.3
Cowlitz	18	5.3	1 379	1.2	24	5.9	223	10.8	16	7.1	366	10.0
Douglas	2	14.2	(D)	(D)	18	6.2	1 035	.8	19	5.8	342	8.3
Ferry	10	6.3	13	4.8	6	10.5	31	21.4	13	7.3	279	10.3
Franklin	19	3.9	3 922	(L)	33	5.2	1 541	19.3	22	6.2	1 242	7.9
Garfield	1	–	(D)	(D)	6	5.0	394	11.4	8	9.2	191	8.7
Grant	67	3.0	6 968	.2	67	3.9	6 959	3.1	67	3.9	9 542	5.2
Grays Harbor	41	2.9	5 893	.9	35	4.6	428	6.1	10	8.9	79	10.8
Island	19	4.2	2 720	.7	15	7.0	155	9.8	17	7.0	286	11.5
Jefferson	9	8.5	716	4.7	6	13.9	106	19.7	11	9.5	176	12.9
King	88	1.9	18 248	.4	75	3.8	585	6.3	86	3.7	1 947	7.7
Kitsap	11	7.5	57	14.4	35	4.6	364	9.2	31	4.6	526	7.8
Kittitas	31	4.9	1 998	1.9	31	5.6	740	19.1	62	4.3	4 940	11.8
Klickitat	26	5.2	1 029	.9	36	5.0	573	11.2	44	4.2	3 099	9.8
Lewis	100	2.3	11 740	.6	72	3.5	1 572	10.4	66	3.7	2 515	3.3
Lincoln	13	6.0	115	1.1	25	3.7	1 118	1.3	17	3.8	724	11.7
Mason	11	8.8	63	3.9	29	5.6	204	7.8	3	10.3	(D)	(D)
Okanogan	40	5.2	432	1.3	44	4.8	788	5.4	51	4.8	3 453	3.6
Pacific	19	3.2	2 076	.8	10	7.9	94	4.7	3	21.5	29	21.2
Pend Oreille	13	7.6	258	9.9	10	8.1	76	11.9	11	8.5	140	12.7
Pierce	61	2.9	9 830	.3	66	3.6	754	7.6	62	3.9	1 182	7.1
San Juan	8	11.3	19	11.5	15	7.8	75	13.6	49	3.8	1 365	8.0
Skagit	123	1.4	21 345	.3	30	5.6	287	10.5	25	6.2	394	9.3

See footnotes at end of table.

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

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

Geographic area	Livestock and poultry – Con.											
	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)
Skamania .....	1	41.0	(D)	(D)	2	26.7	(D)	(D)	4	15.7	84	21.5
Snohomish .....	141	1.5	23 665	.3	104	2.9	1 621	4.1	63	3.8	1 573	9.6
Spokane .....	75	3.1	4 011	2.1	83	3.1	3 428	8.5	73	3.3	2 297	4.4
Stevens .....	113	2.8	2 944	3.2	70	4.0	3 560	6.3	60	4.0	2 070	7.0
Thurston .....	62	3.1	10 752	.5	56	4.3	474	5.9	56	4.1	921	10.3
Wahkiakum .....	15	4.7	1 685	2.9	1	36.7	(D)	(D)	4	12.1	(D)	(D)
Walla Walla .....	11	8.4	1 329	.2	25	5.4	2 642	2.0	34	5.1	1 553	7.1
Whatcom .....	395	.9	62 370	.3	48	4.5	653	10.6	55	4.2	907	6.4
Whitman .....	13	9.6	229	6.8	58	3.6	14 908	2.6	53	3.8	1 341	4.3
Yakima .....	118	2.0	34 703	.1	91	3.5	1 043	9.2	109	3.2	13 610	2.0

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)
<b>Washington ..</b>	<b>1 870</b>	<b>1.1</b>	<b>5 021 482</b>	<b>.1</b>	<b>164</b>	<b>2.0</b>	<b>33 720 007</b>	<b>.2</b>
Adams .....	24	5.2	743	3.5	5	10.0	20 710	12.1
Asotin .....	14	7.3	273	11.8	–	–	–	–
Benton .....	60	4.0	1 192	15.4	5	15.9	217	17.0
Chelan .....	28	5.5	341	6.3	2	22.9	(D)	(D)
Clallam .....	32	5.5	1 071	18.5	2	27.3	(D)	(D)
Clark .....	111	2.9	1 843	3.8	18	4.6	2 402 367	1.9
Columbia .....	11	7.4	174	7.8	–	–	–	–
Cowlitz .....	41	4.3	815	5.7	10	6.3	3 083 223	(L)
Douglas .....	16	5.9	248	5.3	–	–	–	–
Ferry .....	26	5.0	415	7.2	–	–	–	–
Franklin .....	18	6.5	(D)	(D)	–	–	–	–
Garfield .....	12	5.6	143	7.1	1	–	(D)	(D)
Grant .....	59	4.1	(D)	(D)	–	–	–	–
Grays Harbor .....	31	5.2	621	6.8	3	14.1	(D)	(D)
Island .....	34	4.1	807	12.7	1	26.5	(D)	(D)
Jefferson .....	7	10.5	146	11.9	–	–	–	–
King .....	133	2.9	6 508	14.5	8	10.7	(D)	(D)
Kitsap .....	64	3.3	1 548	6.3	7	9.8	468	20.7
Kittitas .....	43	4.9	634	7.6	2	15.4	(D)	(D)
Klickitat .....	34	5.3	673	7.5	1	–	(D)	(D)
Lewis .....	76	3.5	251 358	(L)	20	3.7	9 284 738	.5
Lincoln .....	30	4.6	557	4.5	1	45.2	(D)	(D)
Mason .....	25	6.0	721	9.2	–	–	–	–
Okanogan .....	72	3.8	1 260	6.6	1	39.4	(D)	(D)
Pacific .....	16	5.9	353	6.9	–	–	–	–
Pend Oreille .....	24	6.1	567	15.7	–	–	–	–
Pierce .....	94	3.1	1 047 776	.1	12	6.4	3 174 437	.4
San Juan .....	37	4.7	691	7.0	2	21.9	(D)	(D)
Skagit .....	37	4.8	470 663	(L)	2	–	(D)	(D)
Skamania .....	6	12.4	166	13.8	–	–	–	–
Snohomish .....	126	2.6	858 180	(L)	17	5.8	2 890 720	(L)
Spokane .....	91	3.0	(D)	(D)	10	10.6	48 089	14.9
Stevens .....	96	3.4	1 404	4.5	3	21.6	420	22.2
Thurston .....	93	3.2	1 314 592	(L)	11	5.2	4 763 735	(L)
Wahkiakum .....	6	8.5	122	10.6	–	–	–	–
Walla Walla .....	28	5.8	(D)	(D)	2	24.2	(D)	(D)
Whatcom .....	86	3.3	(D)	(D)	10	6.3	2 026 121	(L)
Whitman .....	26	6.1	405	6.7	3	15.1	(D)	(D)
Yakima .....	103	3.4	(D)	(D)	5	12.3	(D)	(D)

Geographic area	Selected crops harvested											
	Corn for grain or seed					Wheat for grain						
	Farms		Acres		Quantity	Farms		Acres		Quantity		
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Bushels	Relative standard error of estimate (percent)	
<b>Washington ..</b>	<b>571</b>	<b>1.1</b>	<b>94 619</b>	<b>.5</b>	<b>16 854 783</b>	<b>.5</b>	<b>5 032</b>	<b>.5</b>	<b>2 495 940</b>	<b>.1</b>	<b>120 833 207</b>	<b>.2</b>
Adams .....	38	3.3	4 611	3.0	682 547	2.9	379	.8	304 932	.2	12 284 526	.3
Asotin .....	–	–	–	–	–	–	46	1.7	20 895	.6	588 564	.8
Benton .....	21	4.2	25 985	.5	5 395 083	.3	104	1.1	144 723	.1	4 346 245	.1
Chelan .....	–	–	–	–	–	–	5	10.6	1 010	9.7	32 007	7.5

See footnotes at end of table.

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

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

Geographic area	Selected crops harvested											
	Corn for grain or seed					Wheat 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)
Clallam	1	28.2	(D)	(D)	(D)	(D)	1	38.9	(D)	(D)	(D)	(D)
Clark	2	22.4	(D)	(D)	(D)	(D)	4	11.6	(D)	(D)	(D)	(D)
Columbia	—	—	—	—	—	—	128	1.2	77 768	.6	4 254 392	.7
Cowlitz	—	—	—	—	—	—	3	9.5	691	3.2	57 950	3.1
Douglas	1	—	(D)	(D)	(D)	(D)	206	.8	192 782	.3	5 699 260	.4
Ferry	—	—	—	—	—	—	8	8.2	795	5.8	48 273	5.1
Franklin	128	2.0	15 168	1.4	2 606 103	1.4	378	1.0	131 567	.3	7 413 421	.4
Garfield	—	—	—	—	—	—	146	.7	68 689	.4	3 215 765	.4
Grant	214	1.6	26 432	1.1	4 336 616	1.1	701	.9	231 665	.3	14 333 795	.4
Grays Harbor	1	28.9	(D)	(D)	(D)	(D)	3	20.6	(D)	(D)	(D)	(D)
Island	1	34.7	(D)	(D)	(D)	(D)	11	9.0	324	7.0	20 099	5.2
Jefferson	—	—	—	—	—	—	—	—	—	—	—	—
King	5	16.4	24	27.8	(D)	(D)	1	—	(D)	(D)	(D)	(D)
Kitsap	1	—	(D)	(D)	(D)	(D)	—	—	—	—	—	—
Kittitas	1	—	(D)	(D)	(D)	(D)	72	3.0	7 313	2.1	403 908	2.1
Klickitat	2	—	(D)	(D)	(D)	(D)	119	1.7	41 983	.6	1 327 552	.8
Lewis	—	—	—	—	—	—	13	7.3	776	6.3	37 715	6.0
Lincoln	1	—	(D)	(D)	(D)	(D)	518	.5	360 331	.2	17 092 595	.2
Mason	—	—	—	—	—	—	—	—	—	—	—	—
Okanogan	—	—	—	—	—	—	26	3.8	9 412	.5	328 056	.3
Pacific	—	—	—	—	—	—	—	—	—	—	—	—
Pend Oreille	1	49.8	(D)	(D)	(D)	(D)	—	—	—	—	—	—
Pierce	3	16.6	(D)	(D)	1 060	8.5	1	35.2	(D)	(D)	(D)	(D)
San Juan	—	—	—	—	—	—	2	22.4	(D)	(D)	(D)	(D)
Skagit	3	10.5	(D)	(D)	(D)	(D)	51	2.6	3 433	1.8	260 091	2.1
Skamania	—	—	—	—	—	—	—	—	—	—	—	—
Snohomish	5	6.3	221	.1	15 030	.4	12	5.5	273	7.3	18 336	4.7
Spokane	1	—	(D)	(D)	(D)	(D)	425	1.1	124 571	.7	6 288 745	.7
Stevens	1	—	(D)	(D)	(D)	(D)	138	2.3	13 276	2.4	700 437	2.4
Thurston	—	—	—	—	—	—	1	27.3	(D)	(D)	(D)	(D)
Wahkiakum	—	—	—	—	—	—	2	18.3	(D)	(D)	(D)	(D)
Walla Walla	10	4.9	9 607	.9	2 010 893	.9	391	.9	238 886	.3	12 588 275	.4
Whatcom	12	—	1 352	—	142 237	—	16	5.7	1 182	6.9	62 200	4.9
Whitman	—	—	—	—	—	—	909	.6	473 128	.3	27 181 668	.3
Yakima	118	2.2	10 379	1.8	1 560 535	1.8	212	1.5	44 725	.5	2 194 167	.8

Geographic area	Selected crops harvested — Con.											
	Barley for grain					Irish potatoes						
	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)	Hundredweight	Relative standard error of estimate (percent)
<b>Washington</b>	<b>2 428</b>	<b>.5</b>	<b>422 447</b>	<b>.3</b>	<b>19 565 135</b>	<b>.3</b>	<b>431</b>	<b>.8</b>	<b>129 110</b>	<b>.1</b>	<b>62 345 425</b>	<b>.1</b>
Adams	90	1.4	11 079	.3	488 987	.4	44	1.9	17 167	.1	8 198 038	.1
Asotin	34	1.9	5 624	1.4	133 268	1.6	—	—	—	—	—	—
Benton	21	1.2	9 285	(L)	539 855	(L)	13	1.9	26 449	(L)	14 536 037	(L)
Chelan	2	21.6	(D)	(D)	(D)	(D)	—	—	—	—	—	—
Clallam	7	7.8	404	10.0	32 833	12.7	1	24.9	(D)	(D)	(D)	(D)
Clark	18	5.4	2 291	5.9	134 672	3.3	3	14.4	(D)	(D)	(D)	(D)
Columbia	66	2.0	6 917	.9	369 731	1.0	—	—	—	—	—	—
Cowlitz	1	—	(D)	(D)	(D)	(D)	—	—	—	—	—	—
Douglas	37	1.4	3 726	1.0	117 211	1.4	—	—	—	—	—	—
Ferry	7	9.4	756	4.3	32 495	5.4	2	22.9	(D)	(D)	(D)	(D)
Franklin	30	3.3	3 120	1.6	153 656	3.0	105	1.2	29 264	.2	14 015 468	.2
Garfield	124	.9	32 290	.5	1 287 358	.5	—	—	—	—	—	—
Grant	119	1.9	7 370	1.3	439 212	2.1	161	.9	35 263	.2	16 801 601	.2
Grays Harbor	1	—	(D)	(D)	(D)	(D)	3	13.9	(D)	(D)	(D)	(D)
Island	12	7.6	437	4.0	32 294	2.8	2	24.7	(D)	(D)	(D)	(D)
Jefferson	—	—	—	—	—	—	1	38.8	(D)	(D)	(D)	(D)
King	—	—	—	—	—	—	3	20.5	1	25.1	290	24.4
Kitsap	—	—	—	—	—	—	—	—	—	—	—	—
Kittitas	33	4.0	1 282	3.4	101 169	3.2	4	8.5	632	.1	212 040	(L)
Klickitat	45	2.5	5 113	1.5	173 104	2.2	1	—	(D)	(D)	(D)	(D)
Lewis	22	5.6	725	7.4	35 960	6.3	—	—	—	—	—	—
Lincoln	329	.6	86 309	.3	3 577 753	.4	2	—	(D)	(D)	(D)	(D)
Mason	—	—	—	—	—	—	3	15.1	(D)	(D)	(D)	(D)
Okanogan	9	6.1	1 207	.5	49 402	.1	1	49.6	(D)	(D)	(D)	(D)
Pacific	—	—	—	—	—	—	—	—	—	—	—	—
Pend Oreille	5	9.9	41	13.6	1 415	17.4	3	22.4	4	29.6	1 200	28.3
Pierce	1	30.5	(D)	(D)	(D)	(D)	4	10.5	7	1.7	950	1.3
San Juan	3	17.6	100	20.0	5 124	20.7	1	31.4	(D)	(D)	(D)	(D)
Skagit	34	3.9	1 264	3.8	98 928	4.4	16	3.3	6 794	.1	2 272 510	.1
Skamania	—	—	—	—	—	—	—	—	—	—	—	—
Snohomish	5	9.1	131	8.4	8 151	9.1	8	9.9	(D)	(D)	(D)	(D)
Spokane	316	1.2	48 621	1.0	2 163 539	1.0	9	8.0	(D)	(D)	(D)	(D)
Stevens	131	2.6	9 210	3.4	435 205	3.8	3	11.3	193	10.6	(D)	(D)
Thurston	1	27.3	(D)	(D)	(D)	(D)	4	12.9	11	16.7	3 520	10.5

See footnotes at end of table.

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

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

Geographic area	Selected crops harvested — Con.											
	Barley for grain					Irish potatoes						
	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)	Hundredweight	Relative standard error of estimate (percent)
Wahkiakum .....	—	—	—	—	—	—	—	—	—	—	—	—
Walla Walla .....	116	1.4	14 086	1.0	657 877	1.0	12	—	8 859	—	4 504 653	—
Whatcom .....	3	—	(D)	(D)	(D)	(D)	10	7.9	1 482	2.0	436 330	1.8
Whitman .....	753	.6	167 579	-.3	8 292 543	.4	4	16.6	75	16.3	14 115	8.9
Yakima .....	53	3.2	3 211	2.8	189 929	4.0	8	—	912	—	416 959	—

Geographic area	Selected crops harvested — Con.											
	Hay—alfalfa, other tame, small grain, wild, grass silage, green chop, etc. (see text)					Vegetables harvested for sale (see text)						
	Farms		Acres		Quantity		Farms		Acres			
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Tons, dry	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)
<b>Washington --</b>	<b>10 396</b>	<b>.7</b>	<b>740 586</b>	<b>.5</b>	<b>2 669 837</b>	<b>.5</b>	<b>1 605</b>	<b>.8</b>	<b>172 057</b>	<b>.3</b>		
Adams .....	156	1.8	23 730	1.1	143 582	1.1	23	2.9	1 395	1.1		
Asotin .....	30	3.6	3 688	.6	3 567	.6	3	14.4	61	17.7		
Benton .....	280	1.7	12 755	1.4	59 399	1.3	39	3.1	6 814	.1		
Chelan .....	70	3.8	1 503	3.7	2 579	3.3	5	16.6	7	22.3		
Clallam .....	130	2.1	5 736	3.4	13 499	3.8	8	9.8	41	5.3		
Clark .....	534	1.2	19 707	1.6	36 991	1.5	15	7.5	364	5.6		
Columbia .....	48	2.6	2 090	1.1	7 762	.6	4	14.9	(D)	(D)		
Cowlitz .....	125	2.2	5 236	2.2	10 773	1.8	13	5.7	1 424	1.4		
Douglas .....	46	3.1	2 123	2.8	7 530	3.0	7	11.4	23	15.8		
Ferry .....	120	1.8	11 354	2.1	20 601	2.3	—	—	—	—		
Franklin .....	333	1.2	65 403	.9	435 599	.8	165	1.6	24 564	.4		
Garfield .....	47	2.1	2 342	1.3	3 587	1.4	—	—	—	—		
Grant .....	751	1.1	112 838	.8	686 254	.8	209	1.2	44 551	.4		
Grays Harbor .....	162	1.7	12 024	2.1	31 337	1.6	21	5.1	2 699	2.8		
Island .....	155	1.7	8 851	2.9	17 205	2.4	12	7.1	(D)	(D)		
Jefferson .....	50	3.3	2 349	4.8	5 273	2.5	7	11.4	15	13.8		
King .....	192	2.2	7 485	1.7	21 161	1.7	54	4.4	831	1.4		
Kitsap .....	72	3.1	1 124	4.5	1 651	5.4	20	5.9	27	8.1		
Kititas .....	432	1.3	42 674	1.2	185 805	1.2	41	2.8	3 331	1.5		
Klickitat .....	245	1.5	38 700	1.2	51 450	1.6	13	6.8	3 143	.2		
Lewis .....	548	1.2	24 073	1.6	47 307	1.5	40	4.4	4 489	4.9		
Lincoln .....	226	1.0	18 319	.9	38 963	1.5	2	16.4	(D)	(D)		
Mason .....	52	3.8	1 443	5.1	2 787	6.6	13	7.3	237	7.0		
Okanogan .....	428	1.4	29 744	1.0	68 208	1.0	26	6.4	33	8.3		
Pacific .....	78	2.3	4 323	2.2	8 542	2.2	—	—	—	—		
Pend Oreille .....	133	1.7	12 773	2.7	13 918	1.9	2	31.4	(D)	(D)		
Pierce .....	246	1.8	6 910	2.1	16 777	2.1	80	2.9	3 466	1.1		
San Juan .....	73	2.9	3 813	5.0	6 853	5.3	8	11.1	14	15.5		
Skagit .....	316	1.3	19 762	1.2	64 399	.9	117	2.0	18 056	.9		
Skamania .....	19	5.2	591	4.2	933	3.2	—	—	—	—		
Snohomish .....	361	1.4	19 415	1.2	61 702	1.0	81	2.9	4 029	1.4		
Spokane .....	915	.9	52 403	1.1	63 666	1.1	37	4.8	433	4.1		
Stevens .....	637	1.1	42 315	1.3	73 571	1.7	20	7.3	14	7.9		
Thurston .....	264	1.7	10 478	2.0	25 638	1.5	38	5.3	568	2.5		
Wahkiakum .....	74	2.0	3 597	3.9	7 017	2.8	3	17.0	(D)	(D)		
Walla Walla .....	171	1.9	12 292	1.4	64 409	1.5	127	2.1	19 490	.9		
Whatcom .....	765	.9	48 179	.8	169 811	.6	58	3.4	5 405	1.7		
Whitman .....	273	1.3	11 678	.9	23 862	1.6	23	4.1	5 822	1.9		
Yakima .....	839	1.2	36 766	1.2	165 869	1.3	271	1.6	19 356	.9		

Geographic area	Selected crops harvested—Con.				
	Land in orchards				
	Farms		Acres		
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Relative standard error of estimate (percent)
<b>Washington --</b>	<b>6 220</b>	<b>.7</b>	<b>256 282</b>	<b>.3</b>	
Adams .....	31	4.6	2 343	2.2	
Asotin .....	3	21.5	7	22.5	
Benton .....	382	1.2	27 976	.6	
Chelan .....	1 113	.7	28 949	.4	
Clallam .....	15	7.0	50	10.1	
Clark .....	87	3.3	459	4.7	
Columbia .....	7	7.8	154	2.7	
Cowlitz .....	19	6.4	51	8.4	
Douglas .....	579	.7	17 307	.5	

See footnotes at end of table.

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

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

Geographic area	Selected crops harvested—Con.				
	Land in orchards				
	Farms			Acres	
	Number	Relative standard error of estimate (percent)	Number	Relative standard error of estimate (percent)	Number
Ferry .....	4	11.8	(D)	(D)	(D)
Franklin .....	189	1.7	9 846		7
Garfield .....	3	10.2	(D)	(D)	(D)
Grant .....	292	1.5	29 337		8
Grays Harbor .....	16	7.2	59		11.3
Island .....	20	6.8	42		11.1
Jefferson .....	8	10.4	20		13.8
King .....	55	4.9	168		7.3
Kitsap .....	37	4.5	67		5.7
Kittitas .....	45	3.8	1 342		1.3
Klickitat .....	63	3.7	2 282		2.6
Lewis .....	37	4.9	144		6.5
Lincoln .....	7	10.4	61		17.0
Mason .....	11	9.6	33		9.4
Okanogan .....	689	1.3	28 864		.6
Pacific .....	2	14.9	(D)	(D)	(D)
Pend Oreille .....	1	38.4	(D)	(D)	(D)
Pierce .....	66	3.8	588		2.5
San Juan .....	31	5.4	110		12.9
Skagit .....	36	5.0	207		8.7
Skamania .....	17	5.5	603		2.7
Snohomish .....	45	4.7	90		6.0
Spokane .....	75	3.6	567		6.2
Stevens .....	50	4.6	263		6.6
Thurston .....	35	5.1	108		8.3
Wahkiakum .....	—	—	—		—
Walla Walla .....	46	4.0	6 911		.5
Whatcom .....	63	4.0	329		8.2
Whitman .....	7	11.1	23		10.7
Yakima .....	2 034	.8	96 859		.4

<sup>1</sup>Data 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 <sup>1</sup>		Percent not on mail list <sup>1</sup>	
	Total (number)	Relative standard error of estimate (percent)	Total (number)	Relative standard error of estimate (percent)	Total (percent)	Standard error of percent
Farms ----- number--	30 264	.7	7 668	20.4	20.2	3.8
Land in farms ----- acres --	15 726 007	.1	383 070	27.0	2.4	.6
Average size of farm ----- acres --	519.6	.6	50.0	29.2	(X)	(X)
<b>Farms by size:</b>						
Less than 10 acres -----	5 408	1.0	3 593	33.1	39.9	8.3
10 to 49 acres -----	10 115	.9	3 279	31.8	24.5	6.3
Less than 50 acres -----	15 523	.9	6 872	22.7	30.7	5.4
50 acres or more -----	14 741	.5	797	41.3	5.1	2.1
50 to 99 acres -----	3 721	.8	274	91.6	6.9	6.1
100 to 179 acres -----	2 815	.8	300	61.8	9.6	5.4
180 acres or more -----	8 205	.5	222	51.1	2.6	1.3
Harvested cropland ----- farms --	21 282	.6	2 870	29.9	11.9	3.2
----- acres--	4 734 673	.2	75 403	38.5	1.6	.6
<b>Farms by value of sales:</b>						
Less than \$1,000 -----	4 943	1.1	2 975	30.7	37.6	7.2
\$1,000 to \$2,499 -----	4 037	1.1	2 987	29.4	42.5	7.2
Less than \$2,500 -----	8 980	1.1	5 962	22.8	39.9	5.4
\$2,500 or more -----	21 284	.6	1 706	28.8	7.4	2.0
\$2,500 to \$9,999 -----	6 567	1.0	1 088	38.0	14.2	4.6
\$10,000 or more -----	14 717	.6	618	42.3	4.0	1.6
Market value of agricultural products sold -----\$1,000 --	3 821 222	.1	77 845	52.4	2.0	1.0
<b>Farms by standard industrial classification:</b>						
Crops (01) -----	15 321	.6	2 379	34.1	13.4	4.0
Livestock (02) -----	14 943	.8	5 206	26.9	25.8	5.9
<b>Farms by type of organization:</b>						
Individual or family -----	25 126	.7	6 503	23.5	20.6	4.2
Partnership or corporation -----	4 946	.6	1 165	48.6	19.1	8.0
Other -----	192	2.2	--	(X)	--	(X)
<b>Farms by tenure of operator:</b>						
Full owners -----	19 300	.8	7 170	19.5	27.1	4.6
Part owners and tenants -----	10 964	.6	498	49.0	4.3	2.0
Part owners -----	7 778	.5	497	49.1	6.0	2.8
Tenants -----	3 186	.9	1	100.4	(L)	(L)
<b>Operators by place of residence:</b>						
On farm operated -----	23 979	.7	6 535	22.5	21.4	4.3
Not on farm operated -----	4 705	.9	724	48.6	13.3	5.6
Not reported -----	1 580	.9	409	69.8	20.6	11.8
<b>Operators by principal occupation:</b>						
Farming -----	16 491	.6	1 478	33.1	8.2	2.6
Other -----	13 773	.9	5 562	21.0	28.8	5.0
<b>Operators by sex:</b>						
Male -----	27 097	.7	6 706	20.7	19.8	3.9
Female -----	3 167	1.0	963	52.6	23.3	9.4
<b>Operators by race:</b>						
White -----	29 631	.7	6 692	20.9	18.4	3.7
Black and other races -----	633	1.4	348	72.9	35.5	16.7
<b>Operators by years on present farm:</b>						
4 years or less -----	3 984	1.2	2 919	36.8	42.3	9.4
5 years or more -----	22 668	.6	3 045	24.4	11.8	2.9
Average years on present farm -----	17.7	.9	7.9	24.9	(X)	(X)
Not reported -----	3 612	.8	1 704	34.2	32.1	7.8
Average age of operator -----	53.1	.1	48.6	19.5	(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.

<sup>1</sup>Estimates are based on a sample survey conducted independently of census data collection.